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IN TWO SECTIONS December 29, 1927 SECTION ONE

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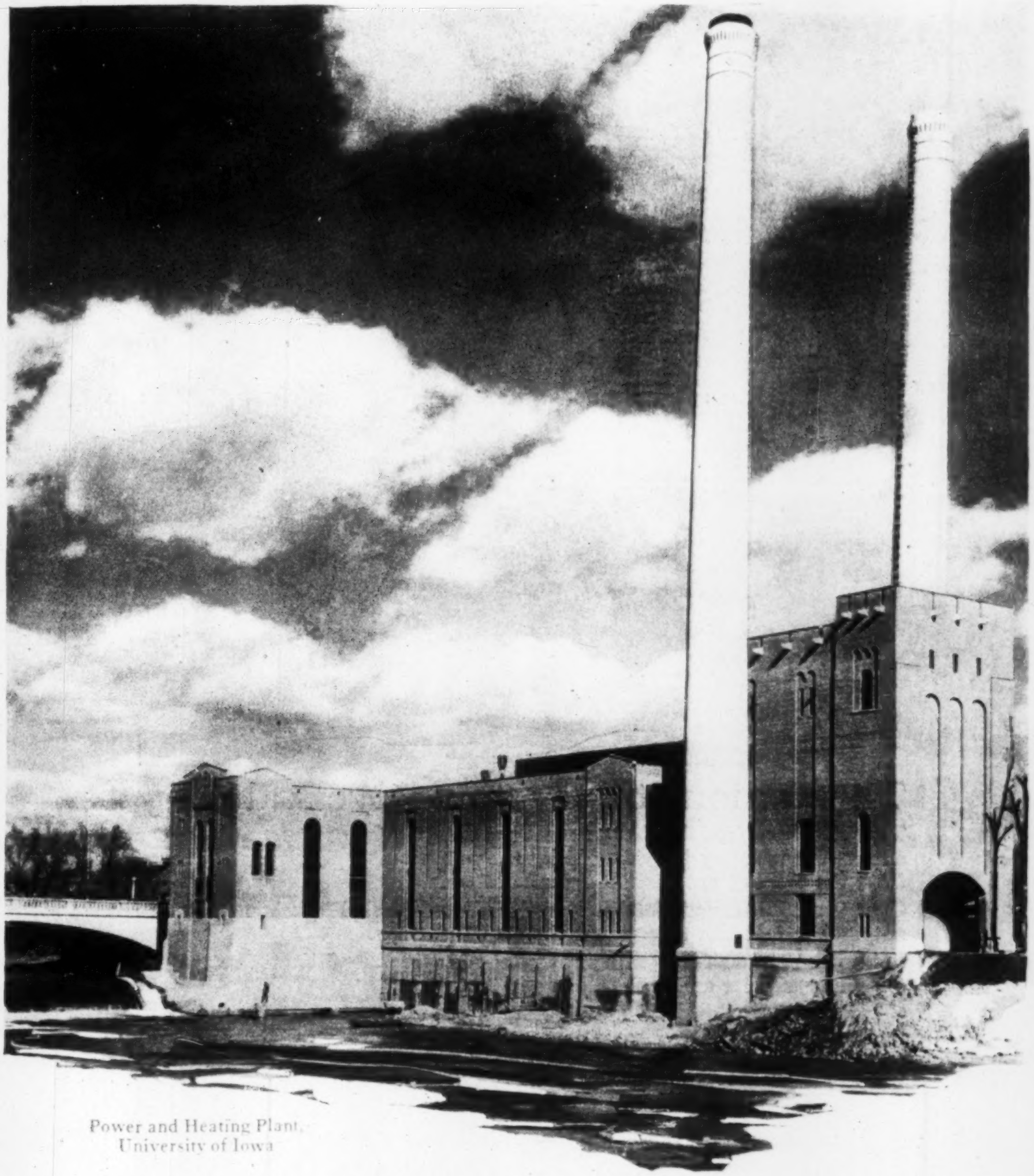

Power and Heating Plant,
University of Iowa

Three Studies of Sewage Chlorination
Tunneling at Musconetcong
Today on the Mississippi—
The Sugar Cane Industry and Atchafalaya Crevasses
Arc Welding on a Large Building
Repair of Hurricane Damage to Two Miami Buildings

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ENGINEERING NEWS-RECORD

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"Please Hurry!"

TRAGEDY in its darkest aspect cast a gloom over the past week. The sinking of the submarine S-4 a week before Christmas off Provincetown darkened many a day. Once again, as when the S-51 was sunk two years ago, the nation waited in breathless suspense for a word of hope that the men entombed in the sunken vessel might be saved from certain fate. Once again there came reports only of impotent groping of divers around the deep-lying hulk. A few despairing messages were rapped out in hammer code by the doomed men, and then came silence—hours before a bit of air could be pumped into the prison chamber through a single small pipe. There were no air locks for entrance to the torpedo room or escape of those confined in it, no hooks or rings by which the hulk could be raised, no device by which a sister submarine could bridge across. Built to destroy, the submarine had no life-saving element in its make-up. And, worse yet, the Navy had no rescue provisions in its equipment. Perhaps this must be so, but the lay mind refuses to believe it; just as it insists that private industry shall not dispense with safety measures, so it feels now that the Navy can and ought to retrieve its name from a black record of steadily repeated disaster by proving that it is able to guard the lives of its men. After such a tragic occurrence as the sinking of the S-4, it is meet that the keenest minds from different walks of life be called together officially to join in thought for future submarine safety. But, of course, that is not to be. Obedient to the dictates of tradition, the Navy itself will investigate the fate of the S-4. May the deliberations of the board be urged on by memory of the dead men's call, *"Please hurry!"* and the helpless answer of those outside, *"We are doing everything possible."*

Sewage Chlorination

STUDIES of sewage chlorination have been numerous of late. In this country they have extended from New England to Texas with rumors of similar investigations in California. Abroad, engineers in Singapore, prompted by the account in our columns of the earlier series of investigations at Schenectady, N. Y., started the use of chlorine immediately and sent this journal a report of results within a year of the time that news from Schenectady reached them. Elsewhere in this issue we present three articles on chlorination studies at as many places. Most of the eight studies thus far reported have been on a working scale, usually with the co-operation of state departments of health. The results promise a rapid increase in the use of sewage chlorination for a wide range of objects: Control of offensive odors, foaming, the fly nuisance, nozzle clogging, ponding of filter beds, as well as for bacterial reduction. Except for fly control, as to which there is some doubt, sewage chlorination seems to have been successful for all the purposes named. More light is needed as to its effect upon nitrification in filter beds, experience and opinion as to this being somewhat conflicting. More cost data are also needed, especially as bearing upon chlorination with little or no pre-treatment. In the latter respect, engineers will need to balacne high cost of chlorine and low capital charges for equipment against the operating and capital charges of pre-treatment works. A great advantage of chlorination is its flexibility. It may be discontinued for days, weeks or months, chlorine saved and no costly equipment left standing idle. Finally, while it is not to be expected that sewage chlorination will increase rapidly as has water chlorination, its wide use in the near future seems assured.

Not Reassuring

ACCORDING to the coroner's jury which has just brought in a belated verdict on the great gasholder explosion in Pittsburgh on Nov. 14, the explosion was an accident. It is by no means a reassuring verdict. It says something about leaky valves, though it does not explain why the leakage of these valves had not been detected at an earlier stage of the repair work on the holder. All in all, it throws no useful light on the circumstances or origin of the explosion. Unless our logic is seriously at fault, the verdict which characterizes the occurrence as an "accident" means that it was an unpreventable happening, such a thing as we must expect every now and then despite reasonable care. Is this possible? Does a constant, imminent hazard of grave accident attach to gas production and storage? The past record of the gas industry does not support the charge of such hazard. It would be criminal to permit gasholders in the midst of city populations if they were subject to unforeseen explosions, sure to devastate a wide territory. Since the coroner's verdict leaves the matter in this uncertain condition, the authorities of the city of Pittsburgh and the State of Pennsylvania, and also such technical representatives of the industry as the American Gas Association, owe the world a more adequate exploration of the causes of the accident. If the causes are found to be of the preventable class, it will be possible—and obviously necessary—to frame rules of safety. Should it prove that they are quite fortuitous, on the other hand, it will be certain that cities are exposed to a great unguarded danger, one which ought promptly to be removed by isolation in a distant location. The question at issue is altogether too big to be left in a state of doubt. Let the facts be brought to light.

Six Young Lawyers

THE investigation of charges against the president of Queens Borough, New York City, noted in these columns last week, promises to be the most thoroughgoing of any coming out of charges of city misgovernment in the United States. The governor, on receiving the charges summarized on p. 1021 of our last issue, delegated the trial to a supreme court judge of high standing who promptly "drafted" as chief investigator a New York lawyer who has made a reputation in such matters. The investigator immediately announced the engagement of six young lawyers, accustomed to investigation team work under him, as lieutenants. To gain public interest and confidence in the investigation, the names, scholastic and legal training of these six lawyers were speedily announced—and given front-page space in the daily press. All six graduated from leading universities, half of them with the Phi Beta Kappa key. All but one have either been Rhodes scholars at Oxford or else taken post-graduate law courses in America, and one did both. One has been editor and another editor-in-chief of a law school journal. Three resigned positions as assistant United States district attorneys to enter on the Queens investigation. All this about six young lawyers is set forth in appreciation of how a lawyer, attacking a huge civic problem, loses no time to give due credit to his legal assistants. How many engineers in like positions would do the same for their engineer-lieutenants? Inasmuch as the charges thus far made originated in allegations of collusion, high cost and incompetence in carrying on an immense engineering project and the investigation is likely to take up highway and other public works, it is safe to assume that engineers will be engaged to assist in the work. It will be interesting to see whether like publicity will be given to them by their chief, whether he be lawyer or engineer, and by the daily press.

Tunnel Lining Machines

TUNNEL lining with concrete is developing extraordinarily large mobile plant units. The lining traveler described in this isue as employed at Musconetcong is an example. Here is an outfit of size and weight that places it among the largest mobile units used in construction and whose many functions make it virtually a factory for producing tunnel lining in place. It is not a unique example, either in size or complexity. At the Cascade tunnel half a dozen lining machines, each as large and all much more comprehensive as to functions performed, are now in use. Indeed any modern tunneling operation of which concrete lining is a part exhibits similar plants, less or greater than those mentioned, as the occasion demands. In general the change is universal from the older practice of building the lining in stages with separate forms for each stage and the forms not mobile but merely portable. What does the change promise? It is probable that experience is not yet ready to give the answer. Certainly it seems plain that practice has not got beyond the cut-and-try period of development. Some are using steel forms and some forms of wood; some are mixing the concrete on the lining traveler and some are hauling it mixed to the traveler; some are stressing pneumatic placing and others are keeping it down to the least amount, and all are contemplating improvements, large or small, when the next traveler is built and the service to it is planned. There is in this condition a resemblance to that preceding the standardizing of traveling plant for laying concrete pavement. In the end the large and heavy mobile unit equipped to perform all fabricating processes was broken down into several units operating in succession with a great simplification of operations. As one regards the enormous lining travelers at Musconetcong and at other tunnels, the question arises whether a breaking-down process might not be as advantageous in tunnel lining as it has proved to be in concrete paving.

Road Convention Improvement

ALREADY culminating every year in a larger exhibition than in previous years of road building equipment and materials, the efforts of the managers of the American Road Builders Association are being turned toward developing a meeting for technical papers and discussions which is commensurate in interest and popularity. This determination is timely. Born of the A.R.B.A. convention, the road show has grown far beyond the stature of its progenitor. It is each year the greatest exhibition of its kind and one of the greatest of any kind. Equal distinction is not true of the convention.

The convention has not failed. Every year its program becomes longer and the aggregate attendance perhaps a little larger and possibly the papers read a little wider in range and a little richer in information, but the technical meeting is not great in quality and in attendance as the exhibition is great. Perhaps this should be regarded as inevitable. The science and technique of an industry naturally appeal to fewer than does its commerce, arouse less personal concern and admit of less showmanship. But even this philosophy does not explain the situation which prevails; much less does it excuse quiescence under the situation. It is imperative that it be changed.

How? By better papers and their presentation in a better way? By better leadership of the sessions? By better showmanship? By better convention mechanism in general? All these, it may be answered, but considerably more. The exhibitors have the greater part to play. Directly and indirectly they can increase the convention attendance and stiffen up its programs. The highway engineer and contractor members of the A.R.B.A. are not confessing helplessness by asking the co-operation of the exhibitor nor is the exhibitor intruding beyond his rightful functions in extending co-operation.

Road equipment and materials are engineering products and their efficient and wise use is construction engineering of the highest character. There is not a large exhibitor at the road show whose staff of engineers does not contain men who have not only expert knowledge of the use of machines and materials but sound experience and wise opinion on broad policies and practices of road building and maintenance. These men have as much to give the technical meetings as they have to give the road show visitors to their exhibits. They have the great possibility of inducting into the convention thinking that element of equipment consciousness which is essential in modern construction engineering. They are experts to whom the individuals of the convention audiences go often to learn: what they do well for individuals they can do in some fashion at least for convention assemblages of individuals. They should be encouraged by the convention program makers and delegated by their employers to do it. Incidentally the exhibitor might stress this effort somewhat by bearing down less on the distractions of his entertainment program.

Paying for Flood Control

WITH extremely few exceptions those who live in the Mississippi Valley south of Cairo express themselves in no uncertain terms as to who shall bear the cost of flood control. In that large section of the country which is most vitally affected, therefore, the suggestion of the Chief of Engineers in his recent report that 20 per cent of the cost of flood control be borne locally has been received with violent opposition. The principle of states' rights, so long a tenet held to in this section with religious fervor, has been thrown to the winds. Argument concerning the subject dwells only briefly on economic principles, but soon turns to the human-interest factors involving protection of life and homes, and these factors are then pressed in such a way that few individuals are willing to pursue the opposition argument lest they be accused of heartlessness.

Nevertheless the subject has an economic side, and General Jadwin is to be commended for bringing it out and facing the situation squarely and firmly. As he says so succinctly, "the question must be viewed from the standpoint not only of those in the valley needing flood protection but also of the taxpayers in other parts of the country, including the regions from which the flood waters come, who suffer indirectly from flood disasters and on whom the bulk of the burden of federal expenditures must fall." Recognizing the humanitarian viewpoint, justification of any financial plan must be capable of being put into tangible figures.

Values in the valley are placed at $5,000,000,000. This total includes $2,700,000,000 for farm and small-town values, $800,000,000 for New Orleans, and $1,500,000,000 for movable property. The Jadwin plan of control calls for an expenditure of six per cent of the valuation; or, if spread over the acreage only, it represents an average of $25 per acre. The cost of permanent protection, $300,000,000, is only 50 per cent in excess of the $200,000,000 estimated loss in the 1927 flood alone!

These are the basic figures, and from them the simple question evolves whether it is good business to spend $3 once, to save recurring losses of $2 plus. If the losses are frequent enough, it would seem good business indeed, on the simple money-back basis. The report does not go into probable future flood frequency, and so the dollars-and-cents argument cannot be followed much farther. However, General Jadwin declares that the expenditures are justified even if the 1927 flood should recur but once in 150 years.

Immediately comes the question as to who will get this money back, where will the benefit be felt, and who therefore should bear the original cost.

Obviously such a large part of the saving through the protection to be obtained is local that there can be no question of the reasonableness of local participation. The valley states accept that argument for the moment, but come back with the rejoinder that they have already done their share. The Chief of Engineers deals with this argument by presenting a table showing that 63 per cent of the $238,000,000 total spent on flood control since 1882 has been furnished by the states, under the present Flood Control Act provisions requiring the local interests to pay one-third the cost of the levees. Actually, of the completed levees, including rights of way and property damages, the states have borne their one-third.

The Chief of Engineers recognizes that a larger share should be borne by the federal government, but he still feels that something should be borne by local interests, and accordingly suggests an 80-20 split on the cost of structures, to give them "proprietary interest and watchfulness." This is not where the shoe pinches. The cost of right-of-way, easements and property damages in the past has been such as to make the local expenses double that of the government even though the latter paid two-thirds construction cost; in consequence the recommended 80 per cent participation by the government in structure costs may not be so generous as it appears. Without estimates of these property costs it is difficult to determine what is fair as to apportionment.

Surely the states must bear some portion of the cost, though there does not appear a mathematical basis on which to determine that percentage. Past experience with the Reclamation Service may be appealed to as an example of full federal financing; but the impoverishing outcome of that financial adventure has been so disastrous that the Valley States cannot deliberately seek to repeat the experience.

Another factor of importance not taken into account in the report is some estimate of the prospective values which the protection will create. In any one case this may possibly be worked out. In land reclamation by a drainage district its financial backers can reasonably foretell where the project will stand financially in say five, ten or twenty years. Where will flood protection put the cotton growers of Tallulah, or the planters in the "Sugar Bowl," or the muskrat trappers of the lower valley? Are not the cotton and sugar growers going to have so much more produce grown that after all their in-pocket yield is not increased but actually decreased? Such was the case with many cotton planters when they compared 1926 with 1927. Three million bales of cotton were grown in 1926 in excess of 1927, reducing the price below production costs. If that is going to be the result local interests may not be better off and better able to bear their share in five years than now.

Three million farmers migrated to the cities in the last five years. Millions of acres of pasture land were plowed up and put in crops during the war and 5,000,000 acres of forest were cleared for crops. Not one-half of this acreage was needed; so in the next five years 31,000,000 acres of farm land went out of use. Here are significant facts of farm economics. Should not farm economists be brought in to confer with the engineers to determine how much land really is needed out of the 12,000,000 acres it is proposed to protect in the Mississippi Delta?

When thousands of square miles of farm land throughout the country have been abandoned, is it fair to tax the remainder for $300,000,000 to put 12,000,000 acres actively into competition with it? Some one should balance the delta land with the upland areas as to relative fertility, nearness to market and other economic agricultural factors. Such economic questions have vital bearing on the cost apportionment question, if the ability-to-pay principle is to govern. And this latter is virtually what the states are setting up in their accentuated pleas of poverty. Such pleas lead one fast to the not-worth-saving idea.

In general, then, one must conclude that the 80-20 apportionment in the report is, as the report states, only a suggestion to Congress. It is not based on mathematical deduction—nor can it be, with the available information. Economic surveys are essential and future developments should be predicted, all viewed and tempered in the light of the agricultural needs of the nation as a whole.

Three Studies of Sewage Chlorination

Laboratory Tests on Digestion at Harvard University and Field Studies at Independence, Kan., and Bridgeport, Conn., on Odor Control and on Effect of Chlorination on Screened Sewage

The results of three independent studies upon sewage chlorination are given in the following articles. Laboratory tests at Harvard University indicate that pre-chlorination of sewage favors rapid digestion of settled solids. Field studies at Independence, Kansas, show that effective odor control can be obtained by pre-chlorination at a cost of $3.32 per m.g.d. At Bridgeport, Conn., studies made by the Connecticut State Health Department show the need of 10 to 15 p.p.m. of chlorine and frequent ortho-tolidin tests.—EDITOR.

Effect of Chlorination Upon the Digestion of Sewage Solids

Laboratory Tests Indicate That Pre-chlorination of Sewage Favors Rapid Digestion of the Settled Solids

BY GORDON M. FAIR AND C. L. CARLSON
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THE introduction of chlorine to the crude sewage at the entrance to, or ahead of, clarification tanks for the purpose of disinfection on the one hand, or correction of odors from sprinkling filters on the other, raises the question as to what effect pre-chlorination of sewage exerts upon the subsequent digestion of the settled solids.

In answer to this question it may be said that the information available from plants in which the influent to settling tanks is being chlorinated indicates that chlorination does not interfere with the operation of the digestion processes and, if anything, seems to be an aid to normal digestion. Such reports as are obtainable shed very little light, however, upon the difference in behavior of the digesting solids settled from chlorinated and unchlorinated sewage. To answer the question more fully, therefore, we must turn to laboratory experiments that permit a comparison between the course of digestion taken by the chlorinated and unchlorinated solids. It is the purpose of this article to report upon two series of experiments that were carried out on samples of sludge obtained from the sewage-works of Schenectady, N. Y., where pre-chlorination of sewage for odor and fly control is being studied on a plant scale. The plant studies at Schenectady have been discussed in *Engineering News-Record*, Aug. 11, 1927, p. 229.

Experimental Methods—On two occasions, with a period of 44 days intervening, parallel samples were taken for purposes of experimentation, one from an Imhoff tank operating without chlorination, the other from an adjacent tank the influent of which was receiving a dose of 10 p.p.m. of chlorine. (The experimental technique used by the authors is fully described in *Journal* Boston Soc. C.E., Vol. 14, 1927.) This dosage was intentionally increased to an excess of that normally required for either disinfection or odor control and was sufficient, at the time of sampling, to leave a chlorine residual of 1.5 p.p.m. at the outlet of the tank. The samples were collected by suspending several buckets over the slots for 24 hr. and then preparing a proportioned, composite sample of the solids collected. The samples were shipped during cold weather to the Laboratory of Sanitary Engineering at Harvard University, and experiments upon their digestion characteristics were begun within 48 hr. after their collection. Analyses of the samples are shown by Table I.

TABLE I—ANALYSES OF SAMPLES OF CHLORINATED AND UNCHLORINATED SLUDGE

	Series I		Series II	
	Unchlorinated	Chlorinated	Unchlorinated	Chlorinated
Date of collection	Feb. 15, 1927		March 30, 1927	
Per cent solids	6.10	4.58	7.77	7.46
Per cent water	93.90	95.42	92.23	92.54
Per cent loss on ignition	64.7	64.9	59.6	63.3
pH	5.6	5.7	5.2	5.4

The samples of fresh sewage solids were seeded with well-digested sludge in a ratio of about 1¼ parts of fresh sludge to one of well-digested sludge on the basis of organic solids in each. The sludge used for seeding was obtained from the Fitchburg (Mass.) Imhoff tanks and analyzed as follows in percentages: solids, 15.9; water, 84.1; loss on ignition, 29.1. The pH value was 7.2. The sludge had all the characteristics of a well-digested sludge.

Methane production and hydrogen-ion concentration were used as the criteria of digestion. The amounts of methane evolved from the beginning of the experiment were measured and are plotted in the accompanying figure against the time elapsed. The slope of the curves thus obtained indicates the rate of gas production at any given instant. Since reaction is such an important factor in digestion, the changes in pH of the sludge mixtures prior to and during digestion are recorded in Table II.

As seen in the figure, the general course of digestion for each pair of samples was quite similar in both series. During the first three or four weeks the chlorinated sample gasified at a more rapid rate than did the unchlorinated sample. At the end of this initial period, however, the rate of methane production by the chlorinated sample slowed down, whereas that of the unchlorinated sample speeded up. At the end of four and six weeks respectively the gas curves of the unchlorinated samples passed those of the chlorinated ones and continued at steeper slopes until the end of the experiment. Turning to the variations in pH of the digesting sludges, it is seen that the chlorinated solids maintain themselves initially at slightly higher values than did the unchlorinated ones. Well-stabilized sludges were produced in both cases.

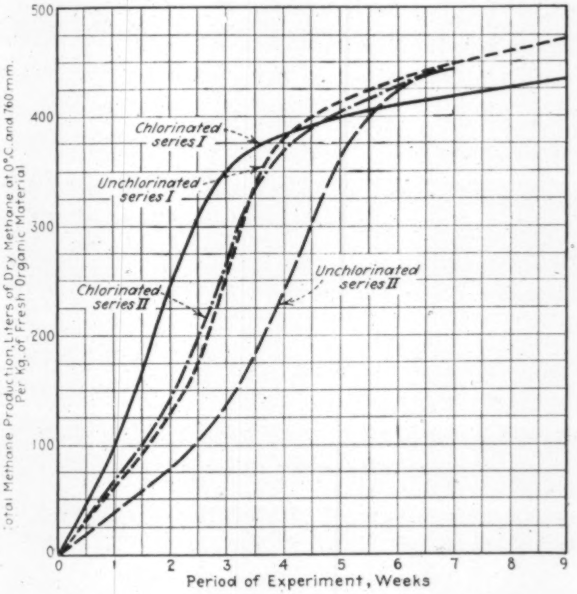
Discussion of Results—It appears that pre-chlorination of settling sewage results in more rapid gasification during the initial stages (four to six weeks) of digestion, but that the ultimate yield of methane is slightly lower. These facts are conceivably due to the following causes: (1) Chlorination stabilizes the finely divided, colloidal or dissolved organic material which is subject to most rapid fermentation and which is probably responsible for the quick initial drop in pH commonly experienced in the digestion of sewage sludge. Thus, since slight variations in pH will produce marked differences in the rate of digestion, chlorination, by keeping the pH slightly higher, would result in more rapid initial methane production. At the same time, however, pre-chlorination did slightly reduce the ultimate yield of the chlorinated sludge. (2)

TABLE II.—HYDROGEN-ION CONCENTRATION OF THE DIGESTING SLUDGES

Temperature maintained uniformly at 20 deg. C.

	Series I			Series II	
Elapsed Days	Unchlorinated pH	Chlorinated pH	Elapsed Days	Unchlorinated pH	Chlorinated pH
0	6.4	6.5	0	6.0	6.4
1	6.3	6.4	1	6.0	6.4
3	6.3	6.5	2	5.9	6.4
5	6.3	6.4	3	6.0	6.3
7	6.5	6.5	4	6.1	6.3
10	6.6	6.7	5	6.2	6.2
13	6.7	6.8	7	6.1	6.3
17	6.7	6.8	9	6.3	6.5
24	6.7	6.9	11	6.5	6.6
31	6.8	6.7	14	6.5	6.8
38	7.0	6.9	18	6.8	6.8
45	7.0	6.9	20	6.8	6.8
52	6.9	6.9	23	6.8	7.0
59	7.0	7.0	30	6.8	7.0
66	7.0	7.0	34	7.0	...
68	7.2	7.0	37	7.0	7.0
			44	7.1	7.0
			49	7.1	7.1

Chlorination may cause the coagulation and precipitation of finely divided, colloidal or dissolved organic matter that does not settle out in ordinary sedimentation. This, being easily digestible, would increase the initial rate of gas production. (3) Chlorination destroys much of the life associated with fresh sewage solids. Thus the acid-producing organisms and great numbers of other aërobic bacteria and protozoa which *probably* impede or inhibit activity of the methane-producing organisms in the digesting sludge would be largely eliminated. This would result in more rapid digestion and methane production in the early stages of the process. The second possibility may seem contrary to the first idea, but is supported in part by the analyses of the sludges, which show a slightly greater organic content for the chlorinated materials. The more rapid initial gasification, however, may be due to a combination of all three of the factors named.



METHANE PRODUCED BY CHLORINATED AND UNCHLORINATED SEWAGE SOLIDS DIGESTING AT 20 DEG. C.

The slope of the curves indicates the rate of gas production at any given time.

The authors are indebted to Morris M. Cohn, superintendent of sewage disposal, Schenectady, N. Y., for his co-operation in collecting the samples of sludge.

Odor Control by Chlorination at Independence, Kan.

Pre-chlorination at Cost of $3.32 per M.G.D. Effective at Sewage-Works Consisting of Tanks and Sprinkling Filters

By Glen H. Hackmaster
City Engineer, Independence, Kan.

APPLICATION of chlorine to the crude sewage of Independence, Kan., during the summer of 1927, eliminated the odor trouble current for several years past. The average quantity of chlorine required to produce operation without nuisance was 3.32 p.p.m. Pre-chlorination was found to be more effective than post-chlorination.

The sewage of Independence, a city of 15,000 people, is treated by Imhoff tanks, sprinkling filters and secondary settling tanks. The sewage reaches the plant through two outfall sewers converging ahead of a "wet well," from which it is lifted to the adjacent Imhoff tanks. The average flow is 1 m.g.d. The plant was put in use in May, 1924. Before many months of operation we were besieged with complaints of odors from many sections of the city. The odor seemed to be most noticeable in the late afternoon and early evening. We were therefore forced to bypass the sprinkling filters during the night. Although the plant apparently was functioning properly, bypassing the filters seemed to reduce the odor nuisance, so this procedure was continued every summer until July 1, 1927.

Experimental work, begun July 1, 1927, showed that chlorination stopped the odors. Likewise it appeared that certain improvements in plant conditions should effect a reduction in the chlorine required. Deposits of solids in the corners and center of the square "wet well" were causing a somewhat septic sewage. The cleaning of this well was laborious and time consuming. In the center of the well a brick and mortar "island" was constructed. Thereafter, the sewage entered at one corner of the well and the current around the sides materially reduced the deposition of solids. The result was a fresher crude sewage having a lessened chlorine demand at the point of chlorination, which was near the intake of the pump suction line.

The Imhoff tanks contained the conventional cross-baffles at the inlet and outlet ends of the flow chambers. Tests indicated that the incoming sewage, diverted in a downward direction by these baffles, flowed the length of the tank well, beneath the liquid surface, and rose behind the outlet baffle. The liquid displacement was poor, the upper strata were dead and the fresh sewage was sweeping out foul liquor from the lower part of the flow chambers. To remedy this, openings were cut through the cross-end-baffles so that the sewage flowed across the tank near the surface. Wooden "stilling" baffles were constructed across each flow-chamber at the center point. These extended downward to a point 6 ft. below the liquid surface and were constructed of 4-in. boards spaced 1 in. apart, with the end boards flush against the vertical septum walls, thus resembling a picket fence. Wooden scum boards prevented floating material from entering the siphon chamber. This arrangement produced a uniform flow of *fresh* sewage across the tanks and an effluent containing a very small quantity of suspended solids. The effluent was there-

TABLE I—RESULTS WITH DECREASING AMOUNTS OF RESIDUAL FREE CHLORINE AS SHOWN BY ORTHO-TOLIDIN TEST

Residual Chlorine, P.P.M.	Average Number of Bacteria per C.C. 37.5 Deg. C. for Chlorine Contact Period in Minutes: 10	15	20	60	Unlimited	Average Number of B. Coli per C.C. for Chlorine Contact Period in Minutes: 10	15	20	60	Unlimited
1.0	390		500			3		0		
1.0*	1,300					10				
1.0	280		700		160	0		0		0
1.0*	680		480		110	20		0		50
0.7					55					0
0.7*		100					1			
0.6	2,400	400				0	10			
0.6*	470				70	110				
0.5		120			150		0			0
0.5*		285	230		80		10	10		0
0.3	150		300			10		0		
0.3*					60					10
0.25	2,200					100				
0.2	1,320	185	1,150			170	0	275		
0.2*	100		140		1,300	10		0		50
0.1	5,300	2,800				375	3,400			
0.1*	400	85		6,600		55	0		1,000	

* Especially accurate results obtained from separate analysis of macerated settled solids and supernatant liquor.

after much less impregnated with the septic liquid from the lower zone of the flow chamber and the hydrogen sulphide in the effluent was reduced, which in turn allowed for a reduction of chlorine applied. Even so, the hydrogen sulphide content of the unchlorinated effluent was frequently above 3 p.p.m.

After the changes were completed, chlorine was applied in the "wet well" as before. Application was begun at the rate of 30 lb. per 24 hr. and gradually increased to 70 lb. and its effect upon the sewage checked by determinations of hydrogen sulphide concentration at various points throughout the tanks and in the effluent. The concentration of hydrogen sulphide in the effluent decreased with increasing chlorine dosage. Reducing the hydrogen sulphide content of the effluent to less than 1 p.p.m. reduced the odors from the filters sufficiently to prevent nuisance. Larger dosages of chlorine were even more effective, but such refinement in operation was considered neither necessary nor economical.

Later it was shown to be good practice to vary the rate of chlorine application during the 24-hr. period. During the day and after 11 p.m. a rate of 30 lb. per day was found satisfactory. From 4 p.m. to 10 or 11 p.m. the rate was increased to the maximum, 70 lb. per 24 hr. This dosage gave residual chlorine in the tank influent after 6 p.m. Thereafter, during the odor period, residual chlorine to the extent of 0.5 p.p.m. was maintained in the influent crude sewage. During all other periods no attempt was made to secure residual chlorine in the influent. No attempt was ever made to secure residual chlorine in the tank effluent.

Experimental work was next conducted, applying the chlorine to the tank effluent. More chlorine was consumed, more hydrogen sulphide was found in the chlorinated sewage, and odor reduction was not satisfactory, so pre-chlorination was adopted as the permanent operating procedure.

On July 20 the plant was turned over to the plant operator, who kept accurate records of sewage pumped, chlorine applied, atmospheric conditions, odor intensity, and complaints. During the periods when the sewage was much diluted by infiltration or leakage, or when the wind blew away from the city, the chlorine was completely shut off. At other times the chlorine was applied at a rate of 25 to 40 lb. per 24 hr. from 11 p.m. to 4 a.m., and raised to 40 to 80 lb. per 24 hr. between 4 a.m. and 11 p.m. The average flows of sewage and chlorine dosage recorded in routine operation were:

Period	Rate of Flow M.G.D.	Chlorine Dosage, P.P.M.	Residual Chlorine, P.P.M.
8 a.m. to 4 p.m.	1.2	3.2	0.0
4 p.m. to 11 p.m.	0.85	10.5	0.2
11 p.m. to 8 a.m.	0.65	6.0	0.0-0.5

COST OF CHLORINATION

The cost of chlorination depends largely upon the conscientiousness of the plant operator. The degree of freshness of the sewage reaching the plant has an important bearing on the chlorine demand of the crude sewage. The condition of the pump sumps scattered over the sewer system and the condition of the tanks have a great effect upon the chlorine requirement. A dirty plant or sewer system in which solids are permitted to accumulate and become septic will result in increased chlorine demands. Finally, the operator should be alert to take advantage of shifts in wind direction or other effects which may warrant reduction of chlorine applied.

At Independence the average chlorine consumption for the 56-day test period was 27.7 lb. per 24 hr. An average sewage flow of 1 m.g.d. was treated, making a satisfactory dosage of but 3.32 p.p.m. Chlorine delivered

TABLE II—SEWAGE CHLORINATION RESULTS WITH DECREASING CHLORINE DOSAGE

Chlorine Applied, P.P.M.	Average Number of Bacteria per C.C. 37.5 Deg. C. for Chlorine Contact: Screened Sewage Not Chlorinated	Period in Minutes: 5	10	15	20	60	Unlimited	Average Number of B. Coli per C.C. for Chlorine Contact: Screened Sewage Not Chlorinated	Period in Minutes: 5	10	15	20	60	Unlimited
20.3*	9,200		100		140			100		10		0		
16	3,400	350		120			160	2,000	5		0			0
16*		900	120				85		220	10				0
15	32,000	1,700					50	10,000	55					0
15*		3,100	1,300				85		38	10				0
14	28,000	600	380	190			75	4,700	55	3	0			0
14*	130,000	3,600	3,400	4,400	1,500		80	30,500	2,700	1,100	300	650		0
13	5,800	500	550		800		65	3,400	70	22		0		0
13*	2,100	76,000	600				95	1,000	150	65				55
12.5	3,100		125		275			4,000		10		0		
12	13,000	550	2,400	400			55	5,300	37	0	10			0
12*	3,000	4,400	140		85			1,000	3,100	10		0		
11	170,000		130		20			10,000		0		0		
10	63,000	1,300					330	4,300	700					0
10*	61,000	8,000	3,100	4,800		6,600	1,300	22,000	1,700	700	3,000		1,000	50

* Especially accurate results obtained from separate analysis of macerated settled solids and supernatant liquor.

at the sewage plant, including freight and drayage in both directions, costs $12 per 100 lb. The cost of chlorination was therefore $3.32 per 24 hr. or p.m.g. If the plant were larger, the purchase of chlorine in multi-unit car-lot shipments would reduce the cost to less than one-half the present cost.

The results of the test period have been highly gratifying. We have made a canvass of the neighborhood troubled by odors and have found no person willing to file a complaint since chlorination was started. Independence will continue chlorination as part of the routine plant operation during periods of odor nuisance.

Acknowledgment is due Ernest Boyce, chief engineer, and staff, State Department of Health, for the services rendered the city in solving this odor problem. The Chlorine Institute supplied the initial shipment of chlorine and the Wallace & Tiernan Company the chlorinator. L. H Enslow, of the Chlorine Institute, arranged for the experiment and offered valuable suggestions during the experimental period.

* * * *

Chlorination of Screened Sewage at Bridgeport, Conn.

State Health Department Studies Show Need of 10 to 15 P.P.M. of Chlorine and Frequent Ortho-Tolidin Tests

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The Connecticut State Department of Health has been interested in chlorination of screened sewage, particularly in view of the large fine-screening plant at Bridgeport, Conn., and the possibility of other installations where chlorination would be an added safeguard to bathers. As a method of complete treatment, fine screens and chlorination have probably a limited field of usefulness, since fine screens remove a rather low percentage of suspended solids.

The Bridgeport screening plant consists of two Riensch-Wurl screens with $\frac{3}{64}$-in. slots. The present flow is about 8 m.g.d. The sewage is of medium strength as compared with that of other Connecticut cities. It is affected by considerable amounts of factory wastes and by infiltration of large amounts of salt water at high tide.

A tap was made in the force main from the pumps discharging the screened sewage to the harbor. A short length of pipe arranged with a minimum number of bends and interferences to further break up the solids carried the sewage to two barrels with inlets and outlets suitably arranged for a constant flow of sewage past the experimental chlorination plant and through the barrels. To cover the variations in the character of the sewage, half-hourly test runs of about 8 hr. were made on fourteen days extending over the period from October, 1926, to April, 1927. Sunday as well as week-day flows were represented to avoid inclusion of the factory wastes, and all conditions to tidal variations were covered. Bacterial examinations were made of 153 sets of samples, each set comparing the chlorinated with the unchlorinated sewage. Occasional abnormally low bacterial counts on the unchlorinated sewage are undoubtedly due to the germicidal effect of occasional discharges of industrial wastes.

The experiments were made to obtain information on the following questions: (1) Penetration of the solids in the screened effluent by the chlorine, (2) period of contact required, (3) effectiveness of ortho-tolidin control, (4) approximate dosage required for Bridgeport screened sewage.

The method of determining the penetration of the solids by the chlorine was to settle for two hours in Imhoff cones the screened and chlorinated sewage, remove samples of the supernatant liquor and the settled sludge to separate bottles, then thoroughly macerate the solids with pestle and mortar and examine the emulsion bacteriologically.

The contact period between chlorine and sewage was controlled by the addition of enough sodium thiosulphate to samples of the chlorinated sewage to destroy any residual chlorine and chlorine substitution products and insure a tenfold excess of thiosulphate. Experiments have demonstrated that this addition of sodium thiosulphate has no inhibiting effect upon the growth of bacteria at the usual temperatures. Intervals of contact with chlorine of 5, 10, 15, 20, 25, 30, 40 and 60 min. were employed, and some samples represented unlimited contact, varying from several hours to 24 hr.

Tests for free chlorine were made with ortho-tolidin and by the starch-iodide method upon chlorinated samples corresponding to those examined bacteriologically. The starch-iodide test did not appear to be so useful quantitatively as the ortho-tolidin test, although when used with acetic acid it was of value in detecting the presence of chlorine, which is apparently held in loose combination with organic matter and, therefore, probably becomes slowly available. The readings for free chlorine (Table I) represent the maximum color produced by adding 1 c.c. of ortho-tolidin to samples of sewage in 1-oz. bottles. Where 0.3 p.p.m. of residual chlorine was present after a 10-min. contact, fairly satisfactory bacterial results were obtained.

As indicated by Tables I and II, where chlorine concentrations were too low, higher bacterial results followed examination after maceration of solids, due presumably to breaking up clumps of bacteria. The results indicate a penetration of these clumps by the chlorine, since with sufficient dosage and contact the analyses are satisfactory when the chlorine has been neutralized and the clumps have been broken up. Both tables show that little improvement occurs by providing a longer period of contact than 10 min. where sufficient residual chlorine is present. Some of the figures showing longer periods of contact and low dosages were omitted from the tables, because of less relative significance.

Table II shows that a dosage of 15 p.p.m. (125 lb. per m.g.) was required to produce acceptable results during the periods covered for the Bridgeport sewage. Assuming a cost of 7.5c. per lb., this would amount to $9.38 per m.g., but if chlorine were purchased in ton containers the cost could be reduced to about 4.5c. per lb., or $5.63 per m.g. On certain days it was possible to secure satisfactory results with lower dosages.

The results of the work to date at Bridgeport seem to warrant the following conclusions:

1. For effective and dependable disinfection of the Bridgeport fine screen effluent, 0.3 p.p.m. of residual chlorine after a period of 10 min. was required. A residual of 0.5 p.p.m., however, is preferable. A 15-min. period of contact may afford some slight improvement, but beyond that it does not seem necessary to go, provided the proper residual is maintained.

2. When 0.3 p.p.m. of residual chlorine and 10 min. contact were provided, the suspended solids were effectively penetrated and the colon bacilli were satisfactorily reduced within the solids passing $\frac{3}{64}$-in. openings in fine screens.

3. The chlorine dosage required to effect a residual of 0.3 p.p.m. after 10 min. varied in the case of the Bridgeport effluent between 10 and 15 p.p.m. The upper limit was necessary to take care of all conditions covered, but such requirements will vary for different sewages and doubtless for the same sewage at different seasons of the year.

4. If satisfactory efficiency of chlorination of sewages is to be held at a minimum cost, chlorine control by the ortho-tolidin test should be made as frequently as practicable.

It must be borne in mind, however, that the character of the effluent from a fine-screening plant changes rapidly over short intervals of time and changes in rates of dosage below the upper limit must be carried out with due regard to this fact.

The writers wish to express their appreciation of the advice and assistance of L. H. Enslow of the Chlorine Institute, and the co-operation of the Bridgeport city officials, in making this work possible.

Foundation Plans Changed After Water Enters Excavation

When Water Inflow Softened Hardpan, Piers Were Carried to Underlying Rock by Pneumatic System

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Unusual foundation conditions and methods were involved in the construction of the Greater Penobscot Building, at Fort and Griswold Sts., Detroit, Mich., a structure which will be 565 ft. high and will have foundations designed to support approximately 100,000 tons. There is to be a large banking room on the second floor, over which the office floors will be carried by girders about 45 ft. long. The columns which support these girders deliver foundation loads of over 2,500 tons each.

As originally designed and contracted for, the foundations consisted of open wells or caissons having large bells at their bottoms resting on hardpan at about 120 ft. below grade, the large area of the bell giving a maximum load of 8 tons per square foot. Previous experience in Detroit indicated that caissons could be put down to hardpan by the open well method without any serious water difficulties, but that if an attempt were made to go through the hardpan to rock a short distance below, sulphur water under a head of approximately 110 ft. would be encountered. It was because of this serious water condition that the foundations were not designed for rock in the first place. [Foundation work in this sulphur-water stratum was described in *Engineering News-Record*, Sept. 15, 1927, p. 424, but in that case open wells were used instead of the pneumatic system.—Editor.]

Work progressed rapidly on the job until the hardpan was reached in the first well, 6 ft. 9 in. in diameter, and the bell was more than half excavated, when water rushed in from the side and bottom, apparently through an opening or crack in the hardpan. Within twenty minutes the water had risen 10 ft. and in twelve hours it was 100 ft. deep in the caisson. It was considered inadvisable to attempt to pump out such a large flow of water, for fear that this might cause settlement of adjoining buildings. Furthermore, the hardpan is somewhat softened and broken up by the water, making it doubtful if a good bottom could be obtained with so much water present. It was therefore decided to omit the bells, use compressed air and push the caissons down to rock. The general foundation arrangement, with a section at one of the bore holes, is shown in Fig. 1.

The necessary equipment was obtained but work was slowed up by the high head of water and the high air pressure required to combat it, a maximum pressure of 51 lb. per sq.in. being required. Even with this high pressure considerable amounts of water came into some of the wells. This water was ejected by the use of a small pipe extending from the bottom of the well up past the air lock to the top. The air pressure in the caissons was sufficient to force the water, with a certain amount of air, through this pipe and out over the top of the well.

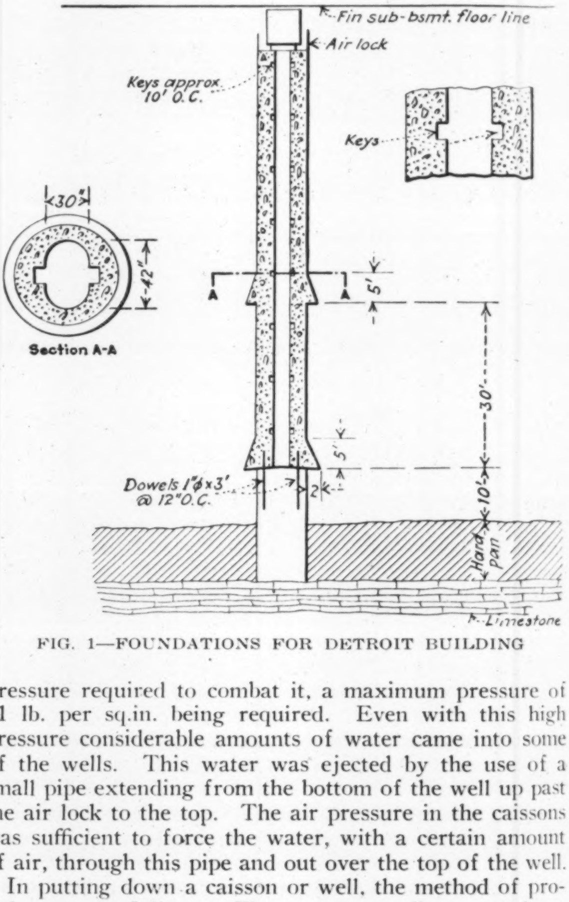


FIG. 1—FOUNDATIONS FOR DETROIT BUILDING

In putting down a caisson or well, the method of procedure was as follows: First, an open well was put down somewhat more than half way to rock. In this well a concrete shell was poured, its outside diameter being the size of the caisson and the shaft inside being large enough for the passage of men and materials. Two collars or small bells were cast on this shell, one at the bottom and the other a number of feet higher up. This is shown typically in Fig. 2, but the dimensions varied in different shafts. After the concrete of the shell had set, the airlock was bolted on its top and the excavation continued below the shell, air pressure being put on as required. The small bells or collars prevented the shell from slipping down when excavation was continued below it. They also helped to prevent the air from forcing the shell upward when a high pressure was required. After rock was reached, the well below the shell was filled with concrete, and when this had set the shaft inside the shell was also filled, making a solid concrete shaft or pier from top to bottom.

It was found that a large part of the water came up through cracks in the rock; and there was some concern regarding the effect of the sulphur water on the concrete caissons. The decision was therefore made to sink 6-in. well casings from the ground level down to rock and then drill with a well driller into the rock until a flow of sulphur water was encountered. Cement grout was then forced down the well casings and into the cracks in the rock under pressures as high as 125 lb. per square inch. It took 388 sacks of cement to fill the crevice tapped by one of the holes, and several took as many as 200 sacks. In all 1,846 sacks of cement were used in the eight grout holes.

These grout holes were distributed as evenly as possible around the job. The grouting was successful in reducing the amount of water encountered and permitted the maximum air pressure to be greatly reduced. The saving in cost by being able to put the wells down with a lower air pressure, and the consequent saving in time, more than offset the cost of the grouting operation. It is also felt that with the cracks in the rock sealed by the grout, there is less danger of the sulphur water disintegrating the concrete of the piers.

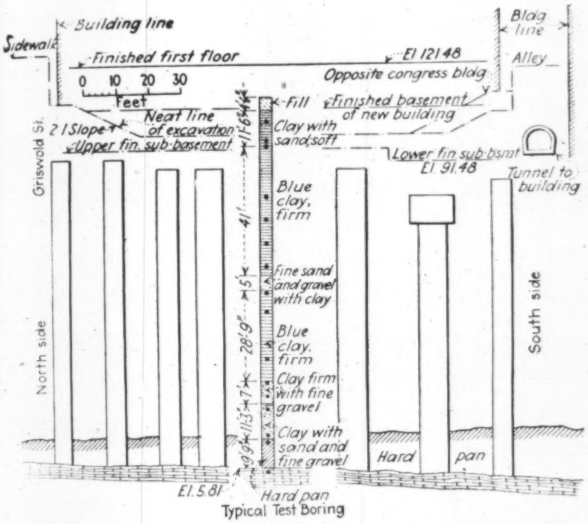


FIG. 2—TYPICAL FOUNDATION WELL FOR PIER
Note shell from air lock to shaft, with collars to anchor it in position.

One of the interesting features in this foundation work was the high strength of concrete. Concrete of at least 3,000 lb. ultimate strength was specified, but many of the test specimens ran over twice this strength and the average of all 28-day breaks was more than 5,000 lb. per square inch. Of 188 cylinders broken at 28 days, the highest and lowest strengths were 7,552 lb. and 2,830 lb. for 167 cylinders broken at seven days, the highest and lowest figures were 6,049 lb. and 1,539 lb. The averages were 5,286 lb. for the 28-day and 3,683 lb. for the 7-day breaks.

An inundator was used for a large percentage of the concrete poured, but toward the latter half of the job, because of interference, all concrete could not be advantageously poured through the inundator plant and two additional batch mixers were used. From a careful check of materials and results from both methods it was found that the same results could be obtained without the inundator plant by proper design, supervision and care. However, the use of the inundator did reduce the chance for error and the required supervision. The time of mixing averaged about two minutes per batch. A total of 9,820 cu.yd. of concrete was poured and 70,929 sacks of cement were used for this concrete, or a grand average of 7.222 sacks per yard of concrete.

TESTS OF FOUNDATION CONCRETE

28-day cylinders			7-day cylinders		
Break, Lb. Per Sq. In.	No.	Per Cent	Break, Lb. Per Sq. In.	No.	Per Cent
7,000 and over	5	2.7	.....	...	.....
6,000 to 7,000	37	19.7	6,000 and over	2	1.2
5,000 to 6,000	78	41.5	5,000 to 6,000	10	6.0
4,000 to 5,000	55	29.2	4,000 to 5,000	41	24.6
3,000 to 4,000	11	5.9	3,000 to 4,000	80	47.9
3,000 and below	2	1.0	2,000 to 3,000	32	19.1
			2,000 and below	2	1.2
Total	188	100.0	Total	167	100.0

The Greater Penobscot Building is being built by the Simon J. Murphy Company. Smith, Hinchman & Grylls, Detroit, are the architects and engineers, with Donaldson & Meier as advisory architects. Walbridge-Aldinger & Company, Detroit, had the contract for the foundations.

Explorations in Alaska

The Interior Department announces the completion of the field work of another exploratory expedition in Alaska by the Geological Survey and the bringing back of maps and information regarding a tract of more than 2,000 square miles in the Alaska Range and adjacent country on the west side of Cook Inlet, in the environs of Mount Spurr, that has hitherto been shown as a blank area on all authoritative maps. This exploration is one of the series that the Geological Survey has been making throughout the last 30 years. The party consisted of S. R. Capps, geologist in charge, R. H. Sargent, topographic engineer, and four camp men. Transportation in the field of the necessary provisions, supplies, and equipment for 100 days was furnished by a pack train of fifteen horses. From the time when the party landed at Trading Bay, on the west side of Cook Inlet, about the middle of June, until it returned to that place at the end of the field season, about the middle of September, the members were entirely out of communication with the rest of the world and saw no human beings other than one another. The results of the expedition are now being worked up for publication, but as it will be many months before the reports are completed, it may be of present value to give in advance a statement of some of the notes of greatest general interest regarding the work of the party. Among the many items reported are the discovery and mapping of a large river, numerous lakes, glaciers, and mountains, and an active volcano. The newly discovered river is the Chakachatna, whose drainage basin covers an area of more than 1,100 square miles. This stream is a roaring torrent far too swift and too deep to be forded even with horses; in fact, measurement of its current at several places showed that it was flowing at an average speed of 15 miles an hour. This river rises in Lake Chakachamna, 23 miles long, which is hemmed in between lofty mountains and impounded behind a great glacier that lies athwart the general trend of the valley.

SECOND OF TWO ARTICLES—

Tunneling at Musconetcong Now and Fifty Years Ago

Comparison of Tunneling Methods Employed in 1874 with Those of Today on Virtually Identical Tunnels for the Lehigh Valley R.R.

The first article comparing the tunneling methods employed in the new Musconetcong tunnel with those used in the old tunnel appeared in Engineering News-Record, Dec. 22, 1927, p. 988.—EDITOR.

INGERSOLL drills were selected at old Musconetcong as representing rock drill design in about its highest development. This drill had been put on the market by Simon Ingersoll in 1870. A section of the drill, from an illustration of the period, shows its main characteristics. It has a 5-in. piston, which indicates altogether a pretty sizable and hefty contrivance, but it was selected because, among other reasons, it was lighter and handier than the older Burleigh drills used at Hoosac and at Nesquehoning. At new Musconetcong the drills are Lyner-Ingersoll drifters—R 72, weighing 164 lb. Direct comparison is impossible because a change of principle is represented—the old drill is a piston drill; the new is a water hammer drill. Roughly, the new drill is eight times as fast and requires half as many man-hours for shifting.

On the old tunnel all drills, both for bench and heading holes, were carriage-mounted, the practice and the general design of the carriages being taken directly from the Hoosac tunnel work. Sketches from old records indicate the drill mountings and the drill-hole arrangement. In the new tunnel the drills are mounted on columns for the heading holes and on tripods for the bench holes. A view in the new tunnel heading and the drill-hole arrangement are given by the illustrations. Comparing the number, depths and footage of holes, they were for heading in the old tunnel as follows:

Designation	Number	Depth Ft.	Total Footage Ft.
Cut C	12	10½	126
First square-up (1)	8	12	96
Second square-up (2)	8	12	96
Third square-up (3)	6	12	72
Extra roof holes	2	10 & 8	18
Total	36		408

The roof holes were drilled only when needed. In the new tunnel the heading holes proper, were:

Designation	Number	Depth	Total Feet
Rib holes (*R*)	10	11	110
Relievers (*Re*)	18	11	198
Lifters (*L*)	8	11	88
Cut holes (*C*)	6	13	78
Total	42		474

Adding the 7 down-holes *D* used only when necessary to break down the top edge of the bench and drilled in the heading round, we have 7 × 6 = 42 ft., making the total footage 516 ft. In the old tunnel the bench drilling comprised 6 down-holes 12 to 13 ft. deep, a total, say, of 72 ft., and 4 toe-holes 10 ft. deep, making a grand total of 112 ft. of bench drilling. In the new tunnel the bench drilling comprised 20 bench-holes 11 ft. long and 5 toe-holes 5 ft. long, or a total of 245 ft. Drilling rates cannot be compared with the records, as they are only partial for the old tunnel and incomplete for the new tunnel. Very little, too, has been told of the drill servicing at the old tunnel, but hand-sharpening was employed at an ordinary blacksmith forge and drill conditioning was a process of doing what was necessary only when it was necessary. In comparison, the servicing equipment at the new tunnel as shown by several views stands out in sharp contrast.

Blasting performance like drill performance, and for the same reason, is not in condition for comparison. On the new tunnel, of course, electric firing and dynamite are being employed, with all the recent perfection of cartridges, exploders and electric blasting, and all the modern finesse of delay firing. On the old tunnel it is interesting, then, to note that dynamite and electric firing were used throughout for the first time in tunneling in America. So revolutionary was the practice that contemporary writings on the old tunnel work enter into elaborate argument defending it. Indeed, the accomplishment of dynamite at old Musconetcong deserves notice; for 82,000 cu.yd. excavated the average was 1.71 lb. of dynamite per cubic yard.

Timbering and Mucking—Timbering was a particular problem in both tunnels in the soft ground and, to a less extent, in loose rock. In the seamy rock at the east end of the new tunnel where only roof falls had to be guarded against, only a plain segmental timbering was required. The soft-ground problem was much more complex. The ground is very unstable when wet and in the new tunnel workings it developed enormous pressures. Comparable pressures in the old tunnel are not indicated by any of the contemporaneous accounts. Indeed, in the English system of timbering, used in that tunnel generally, all the timbering usually saved was saved, and only occasionally was it found impossible to pull the crown bars ahead. Either of these procedures would be virtually impossible with the pressures existing in the new tunnel workings. Here 16-in. fir segments set close were split and shattered, and 12-in. diameter posts were broken. The normal timbering is 12x12-in. posts and arch segments set close, increased to 12x6-in. posts and segments in heavier ground and in the worst places reinforced by an inner "timbering" of steel beam posts and segments as shown by accompanying drawings.

In the old tunnel the excavation and timbering followed very closely the typical English system, as the drawings make apparent. About 20 ft. of tunnel was excavated to full cross-section and then it was lined; then another length was excavated and the lining was built. As stated before, the process involved no particular complications and apparently required no more than ordinary good care.

In planning the work through soft ground for the new operation it was thought best to drive a crown drift and two wall plate drifts, making enlargement from these drifts, then placing wall plates and segmental roof timber. A power shovel was then to be used to take out the center of the remaining core down to grade, leaving a bench on each side to support the wall plates. These benches were to be taken out as the plumb posts were erected. The pressures developed soon put a check on the planned procedure and the plan was changed to that shown by the drawings. This gave an opportunity for placing plumb posts, wall plates and bottom arch segments and bracing them against the core. The crown drift similarly gave opportunity for placing, and stulling to the core, the top crown bars. The drifts then left uncompleted timbering only at the haunches, which were then widened out right and left from the crown drift by placing one crown bar after another, stulling them to the core and driving polling-board lugging. Finally, under the crown bars and lagging the remaining arch segments were placed. All processes can be very clearly visualized from the drawings and views; scarcely a detail needs further explanation.

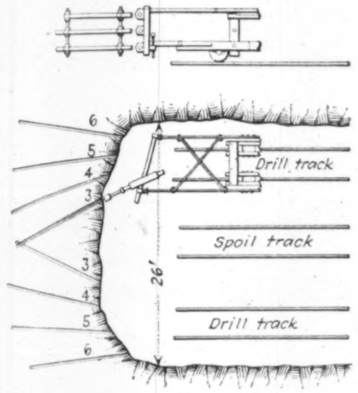
There are in the drifts and core about the following yardages of excavation:

Drifts	Size	Volume per Foot
Crown	12½ x 11½ ft.	5.3 cu.yd.
Wall plate (two)	8½ x 11½ ft.	7.2 cu.yd.
Plumb post (two)	11½ x 10½ ft.	9.0 cu.yd.
Enlargement, both haunches		10.0 cu.yd.
Center core		16.0 cu.yd.
Total		47.5 cu.yd.

All but the core excavation is by hand, the muck being taken out in small push cars, the cores being taken out by a 1½-cu.yd. capacity crawler-traction shovel equipped for air operation. Otherwise the earth mucking methods are like those of the east end in rock where the heaviest mucking has to be done. This core excavation by power shovel is the major distinction, in mucking methods in earth, between the old and the new tunnels.

In rock at the east end, the full excavation was handled by power shovel—the shovel used on the east approach cut changed to operate by compressed air. Two tracks were laid into the tunnel; the shovel was operated on one and the outgoing muck trains on the other. The incoming empty trains came into the tunnel on the shovel track, an air hoist on the rear of the shovel being used to shift the cars to the loading track. At the west end where a crawler-traction shovel is employed, the car shifting is done by gas and electric locomotives, but an improvised traveler carrying an air hoist will be installed. For handling the shovel excavation, the regular 5-cu.yd. dump cars for the open-cut work were used. They were spotted by a 7-ton electric locomotive and hauled to and from the waste dumps by 16-ton gas locomotives.

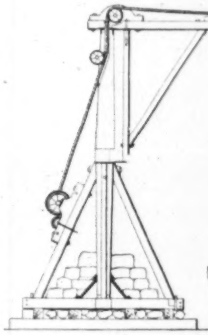
Lining—In the old tunnel, only the 770 ft. from the



1

1—DRILL CARRIAGE FOR HEADING HOLES IN OLD TUNNEL

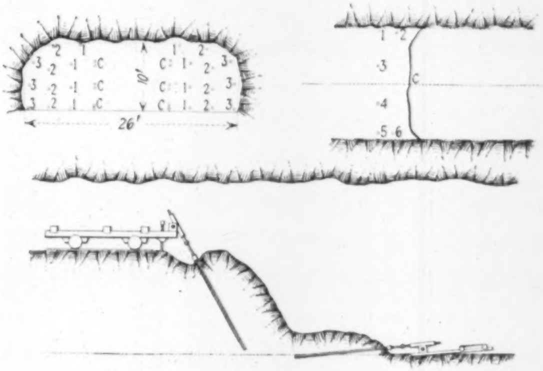
These carriages, copied from the Hoosac tunnel carriages, were of timber with iron shaft bars. The contractor's mining superintendent, William White, who worked at Hoosac, designed them.



2

2—HAND DERRICK FOR LINING OLD TUNNEL

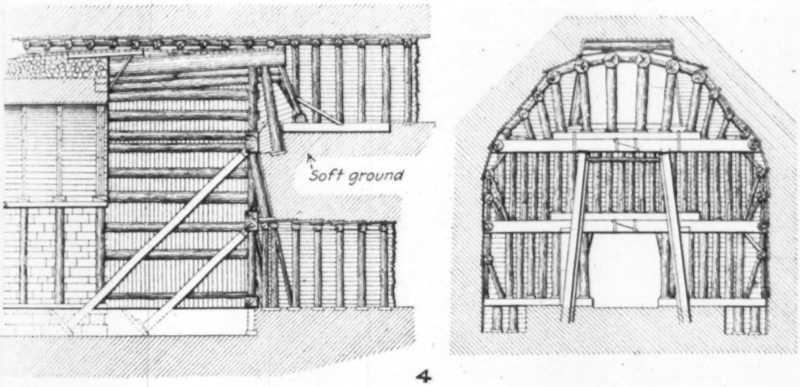
This appears to have been the only equipment besides regular masons' tools used in lining the old tunnel.



3

3—HEADING HOLE DIAGRAM AND BENCH DRILL CARRIAGES ON OLD TUNNEL

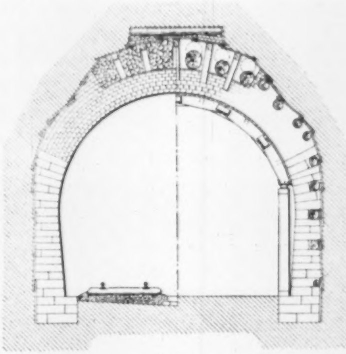
Note the wedge-shaped center cut. William White is credited with having introduced the wedge center cut and subsequent "squaring up" rounds at old Musconetcong.



4

4—ENGLISH SYSTEM OF TIMBERING SOFT GROUND IN OLD TUNNEL

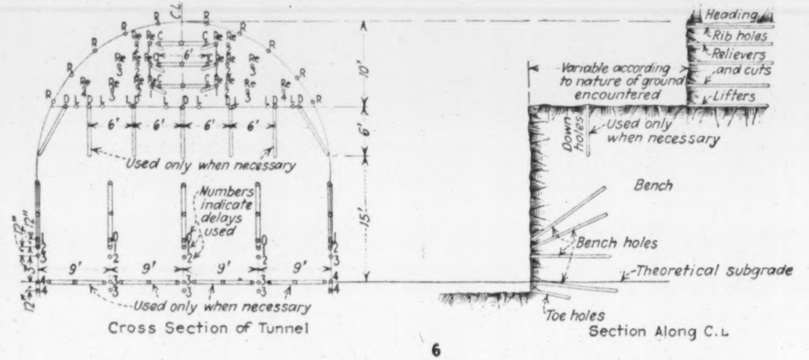
Short lengths of tunnel excavated and timbered to full section and then lined, in alternate operations, with a starting drift at the crown and a bottom drift for drainage and an additional point of attack, is the typica' "English system" procedure.



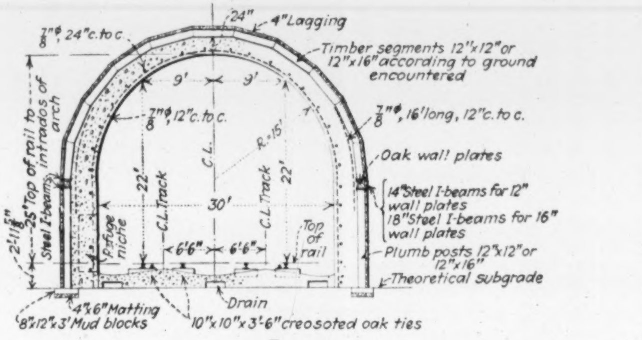
5

5—LINING FOR SOFT GROUND IN OLD TUNNEL

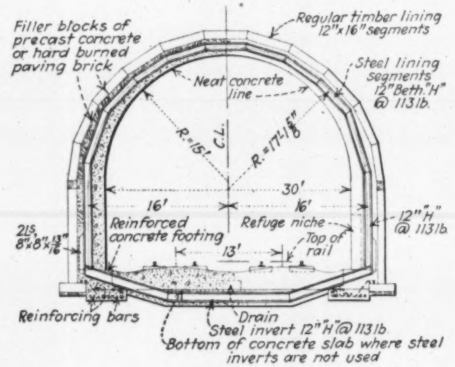
Coursed rubble stone side walls and brick arch all set in Rosendale cement mortar. Compare with new tunnel lining.


Cross Section of Tunnel
Used only when necessary
Numbers indicate delays used
Used only when necessary
C.L.
6'
9'
10'
15'
12"
Section Along C.L.
Heading
Rib holes
Relievers and cuts
Lifters
Variable according to nature of ground encountered
Down holes
Used only when necessary
Bench
Bench holes
Theoretical subgrade
Toe holes

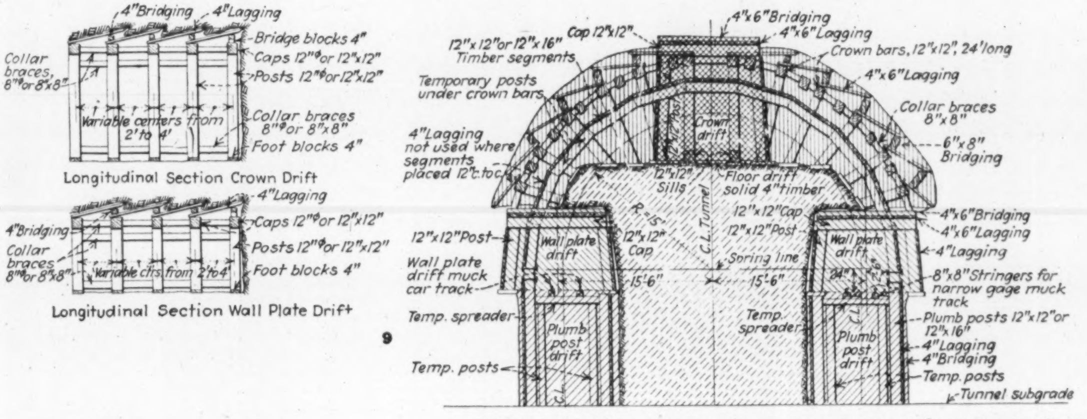
6—DRILL HOLE DIAGRAM FOR COMPLETE ROUND IN NEW TUNNEL

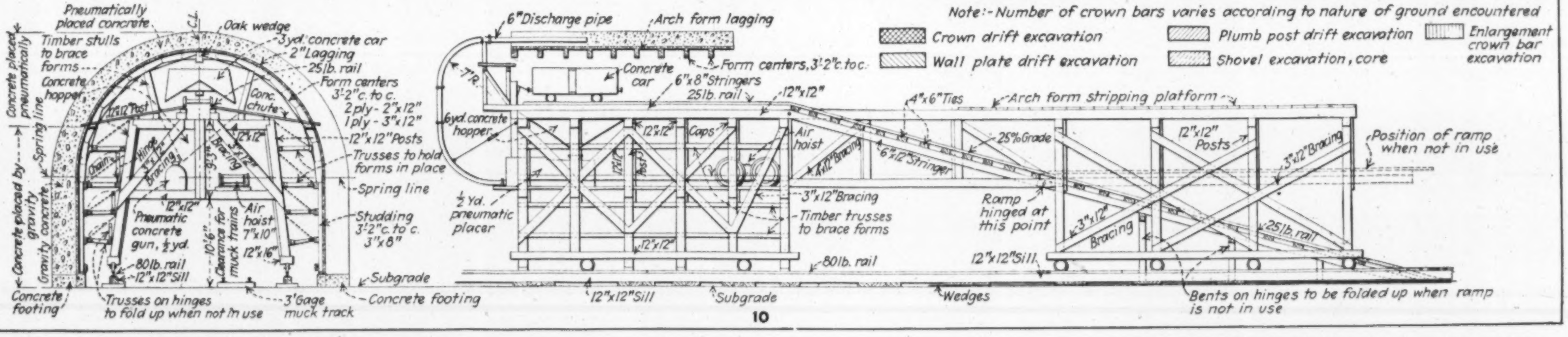

24"
4" Lagging
7/8"φ, 24" c. to c.
Timber segments 12"x12" or 12"x16" according to ground encountered
7/8"φ, 12" c. to c.
7/8"φ, 16' long, 12" c. to c.
Oak wall plates
14" Steel I-beams for 12" wall plates
18" Steel I-beams for 16" wall plates
Plumb posts 12"x12" or 12"x16"
Theoretical subgrade
25' Top of rail to intrados of arch
Steel I-beams
2'-11 5/8"
Refuge niche
C.L. Track
C.L.
R=15'
30'
22'
9'
6'6"
Top of rail
Drain
4"x6" Matting
8"x12"x3' Mud blocks
10"x10"x3'-6" creosoted oak ties

7—LINED SECTION AND TIMBERING FOR MODERATE PRESSURES, NEW TUNNEL


Filler blocks of precast concrete or hard burned paving brick
Regular timber lining 12"x16" segments
Steel lining segments 12" Beth. "H" @ 113 lb.
Neat concrete line
C.L.
R=15'
R=17'-1 5/8"
30'
16'
12" "H" @ 113 lb.
2 LS. 8"x8"x13/16"
Reinforced concrete footing
Refuge niche
Top of rail
13'
Reinforcing bars
Drain
Steel invert 12" "H" @ 113 lb.
Bottom of concrete slab where steel inverts are not used

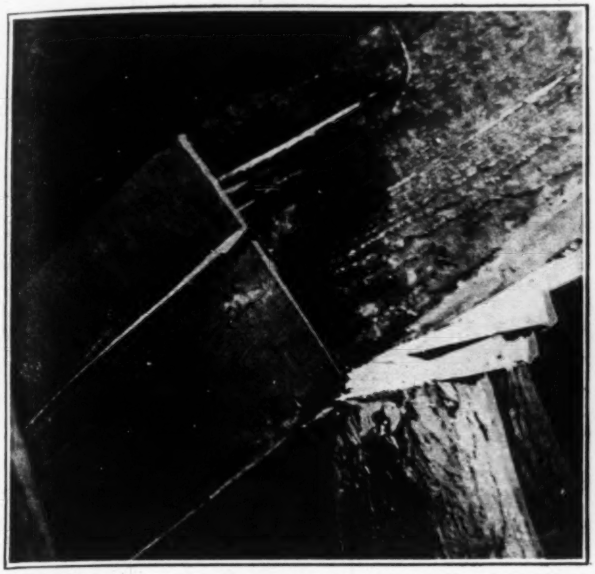
8—STEEL "TIMBERING" FRAMES FOR VERY HEAVY GROUND, NEW TUNNEL


4" Bridging
4" Lagging
Bridge blocks 4"
Caps 12"φ or 12"x12"
Posts 12"φ or 12"x12"
Collar braces, 8"φ or 8"x8"
Collar braces 8"φ or 8"x8"
Variable centers from 2' to 4'
Foot blocks 4"
Longitudinal Section Crown Drift
4" Lagging
4" Bridging
Collar braces 8"φ or 8"x8"
Caps 12"φ or 12"x12"
Posts 12"φ or 12"x12"
Variable ctrs. from 2' to 4'
Foot blocks 4"
Longitudinal Section Wall Plate Drift
Cap 12"x12"
4"x6" Bridging
4"x6" Lagging
12"x12" or 12"x16" Timber segments
Crown bars, 12"x12", 24' long
Temporary posts under crown bars
4"x6" Lagging
Collar braces 8"x8"
6"x8" Bridging
4" Lagging not used where segments placed 12" c. to c.
Crown drift
12"x12" Sills
Floor drift solid 4" timber
12"x12" Cap
12"x12" Post
C.L. Tunnel
R=15'
Spring line
4"x6" Bridging
4"x6" Lagging
4" Lagging
12"x12" Post
Wall plate drift
Wall plate drift muck car track
8"x8" Stringers for narrow gage muck track
15'-6"
Temp. spreader
Plumb post drift
Plumb posts 12"x12" or 12"x16"
4" Lagging
4" Bridging
Temp. posts
Tunnel subgrade


Note:- Number of crown bars varies according to nature of ground encountered
Crown drift excavation
Wall plate drift excavation
Plumb post drift excavation
Shovel excavation, core
Enlargement crown bar excavation
Pneumatically placed concrete
C.L.
Oak wedge
Timber stulls to brace forms
3 yd. concrete car
2" Lagging
25 lb. rail
Concrete placed pneumatically
Concrete hopper
Form centers 3'-2" c. to c.
2 ply - 2"x12"
1 ply - 3"x12"
Conc. chute
12"x12" Posts
Trusses to hold forms in place
Spring line
Hinge
Bracing
Air hoist 7"x10"
Studding 3'-2" c. to c. 3"x8"
12"x12"
Pneumatic concrete gun, 1/2 yd.
10'-6" Clearance for muck trains
12"x16"
80 lb. rail
12"x12" Sill
Concrete placed by gravity
Gravity concrete
Concrete footing
Trusses on hinges to fold up when not in use
3' Gage muck track
Subgrade
Concrete footing
6" Discharge pipe
Arch form lagging
Form centers, 3'-2" c. to c.
Concrete car
6"x8" Stringers
25 lb. rail
12"x12"
7' R.
6 yd. concrete hopper
Caps
Post
Air hoist
4"x12" Bracing
6"x12" Stringer
3"x12" Bracing
Timber trusses to brace forms
1/2 Yd. pneumatic placer
80 lb. rail
12"x12" Sill
Subgrade
Wedges
4"x6" Ties
Arch form stripping platform
25% Grade
12"x12" Posts
3"x12" Bracing
Position of ramp when not in use
Ramp hinged at this point
Bracing
25 lb. rail
12"x12" Sill
Bents on hinges to be folded up when ramp is not in use

9—DRIFT AND TIMBER LAYOUT FOR SOFT GROUND, NEW TUNNEL

10—LINING TRAVELER USED ON NEW TUNNEL



FIR ROOF SEGMENTS 16 IN. SQUARE FRACTURED BY EARTH PRESSURE NEW TUNNEL

Sawed timbers 12 in. and 16 in. square set touching each other were split and sprung by the earth loads encountered in the new tunnel.

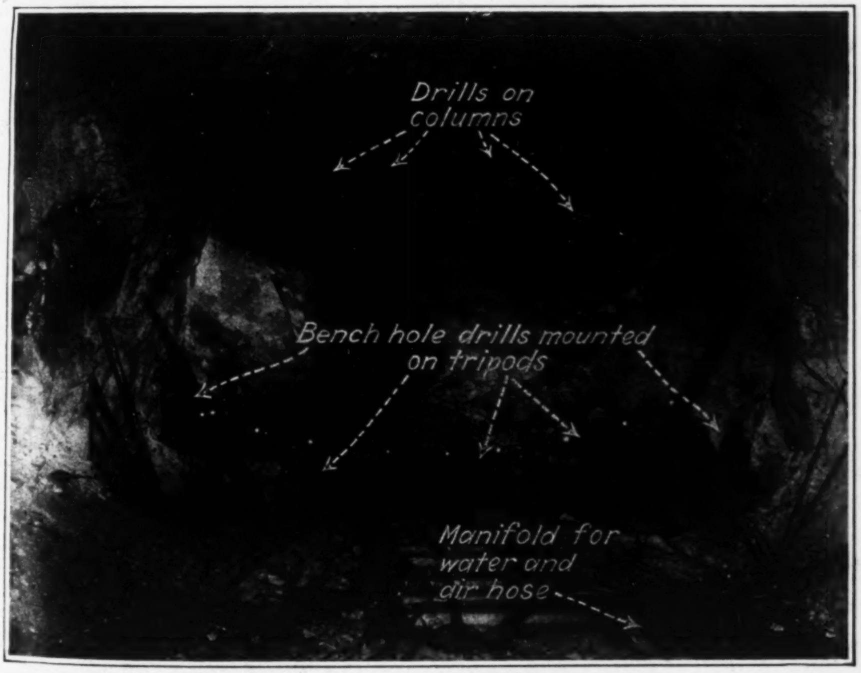
FIR POST UNDER CROWN BAR BROKEN BY ROOF PRESSURE, NEW TUNNEL

This represents a type of failure in the temporary timbering which occurred during excavation for placement of permanent timbering.

west portal in through the soft ground and the 263 ft. through loose rock were lined. The lining was masonry, coursed rubble walls and a brick arch. The sketch in the group drawing also indicates the type of arch centering employed. The mortar was 1:1, of Rosendale cement. Virtually the only equipment, besides masons' tools, used in lining work was the hand derrick illustrated. Two men, it is stated, could raise a ton block of stones with this derrick. That credit may go to an old-time contractor's superintendent, it is mentioned that the derrick was designed by Jacob Snyder, a mason superintendent for Charles McFadden, the contractor.

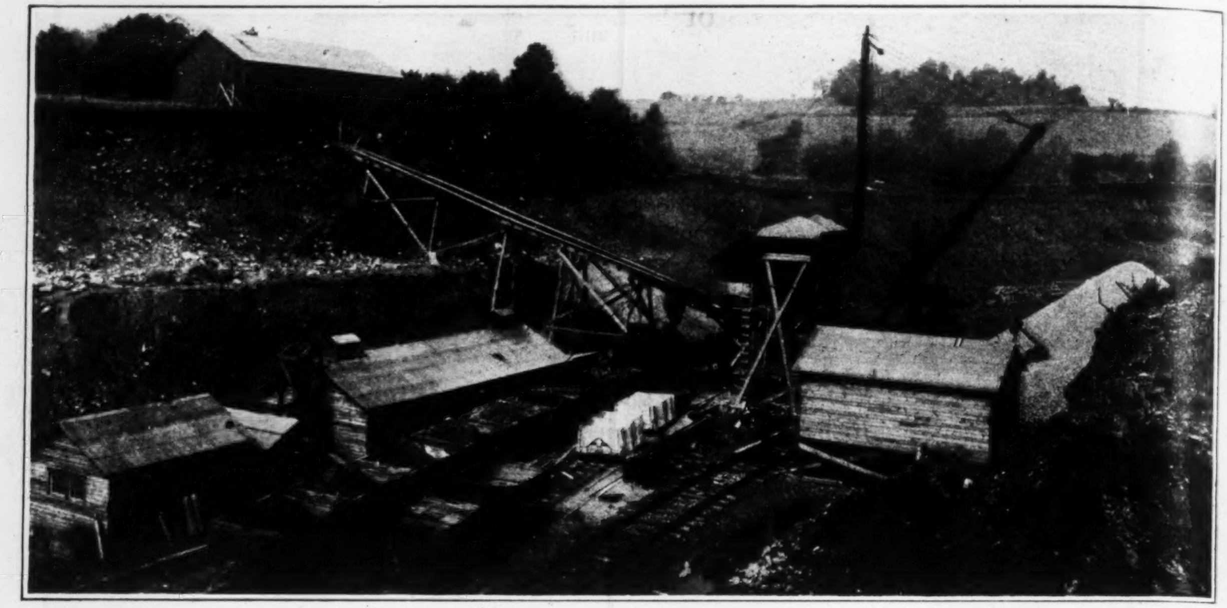
The lining of the new tunnel is portland cement concrete, of which about 25,000 cu.yd. will be required. Besides the concrete, some 2,500,000 ft.b.m. of timber and 550 tons of steel are required. In 1875, the year when the old Musconetcong tunnel was completed, David O. Saylor put the first American-made portland cement on the market. Probably not 15,000 bbl. a year were produced for the next five years. As a considerable construction material, portland cement concrete has come into being since the first Musconetcong tunnel was completed; and by the same token all concrete-making machinery is new. We have, then, in mixing and placing plants for the new tunnel a type of equipment unthought-of when the old tunnel was lined. This equipment is shown clearly by the drawing and views.

The lining of the new tunnel is shown by several of the drawings, and the notable feature is the steel frames set inside the timbering in heavy ground and embedded in the concrete. Where the steel frames are not used the concrete lining is reinforced. The particular interest of the lining work lies in the mixing and placing plants, which


Drills on columns
Bench hole drills mounted on tripods
Manifold for water and air hose

VIEW OF HEADING AND BENCH IN NEW TUNNEL

Note the use of steel screw columns to which the drills are clamped by a universal column arm for drilling face holes. Drills were tripod-mounted for drilling bench holes.



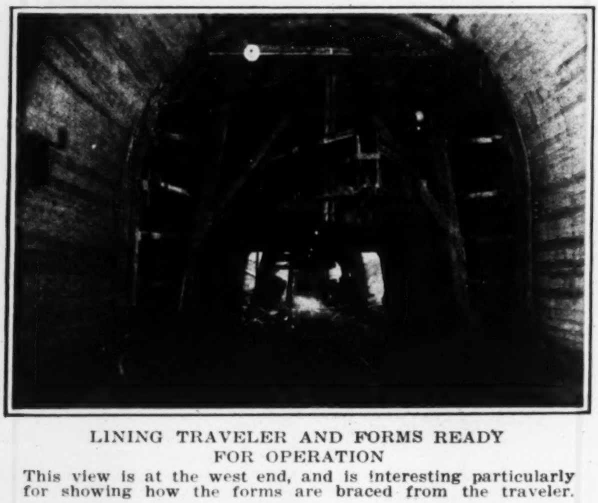
CONCRETE MIXING PLANT AT WEST END OF NEW TUNNEL

Concrete was a rare construction material in the time of old Musconetcong. David O. Saylor in 1875, the year the tunnel was finished, began manufacturing the first portland cement to be made on the American Continent.

are essentially alike at both ends. The drawing shows the mixing plant arrangement at the west end. The arrangement is ordinary; derricks unload from cars into stock-pile or overhead steel batch-measuring bins; a 1-cu.yd. cube mixer is under the bins and right- and left-gate batch cars on surface tracks take the concrete to the tunnel. A 1:2:4 concrete is used for lining.

The notable feature is the manner of placing the lining. Briefly, all but the crown section of the lining is placed by gravity from a traveler and the key section is placed pneumatically by a Ransome 14-ft. pneumatic placer. The general arrangement of the traveler is shown by the drawing. Its functions and operation are amply explained by the legends on the drawings. A traveler is installed in each end of the tunnel.

Direction and Labor—The direction of the old tunnel work included men whose names have since become known in engineering and contracting. Robert H. Sayre was chief engineer, Calvin C. Brodhead was principal assistant engineer, and Henry S. Drinker was resident engineer. The contractor was Charles McFadden of Philadelphia, Pa., who had regularly on the work about 1,000 men who lived, an old account says, in a "settlement of several hundred shanties on each side of the mountain." The men were mostly Irish but at one time the contractor brought up some Virginia negroes and the resulting race riot set a record for pay-day battles—three negroes and one Irishman killed. It is told that "liquor shanties" gave considerable trouble on the old work. Today the contractor has a deputy-sheriff to keep bootleggers off the job. The old work excelled the new in spectacular accidents—less than such going unnoted. Once a boiler blew up and killed three men and on two occasions quantities of the new explosives "went off," and killed no one.



LINING TRAVELER AND FORMS READY FOR OPERATION

This view is at the west end, and is interesting particularly for showing how the forms are braced from the traveler.

The term shanties used above probably tells perfectly the kinds of laborers' camps at old Musconetcong. On the new work the contractor houses about 200 men at each end in substantial bunk houses heated and screened and having bathing facilities, and he has dining halls, camp stores, engineer's and contractor's offices, and all the usual services of a modern construction camp. The lighting is by electricity. Water is piped to sump and job and electric pumps are provided for fire pressures. Job service buildings are equally substantial and comprise sawmills, drill sharpening and blacksmith shops, and cement and store houses all modernly equipped. Aside from the improved construction equipment with which to work, probably no difference between the operations of 1874 and 1927 would appear more astounding to the workmen on the old tunnel than the living accommodations and commissary provided for their kind at the new tunnel.

The new tunnel is being built for the Lehigh Valley R.R., G. T. Hand, chief engineer, and W. H. Ramsey resident engineer on the work. The contractor is Bates & Rogers Construction Co., Chicago, Ill., with R. E. Ross district manager in charge of the work.

Arc Welding Used on One Story Building Two Acres in Area

Field Welding, Shipping 60 Per Cent of Material Direct From Mill to Job, and Continuous Purlin Detail Effect Savings

By Gilbert D. Fish
Consulting Structural Engineer, Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa.

A KILN tunnel building one story high and two acres in area was recently completed at the Derry, Pa., Works of the Westinghouse High Voltage Insulator Co. Apart from bolting for assembly and erection, all connections were made by arc welding. Of the 337 tons of steel, 40 per cent was fabricated, and the balance was shipped plain from mill to job. All welding was done in the field, about three-eighths of it in assembly welding on the ground before erection and the remainder in place after erection. The ground welding could have been done in a shop, and under different circumstances might have been so done.

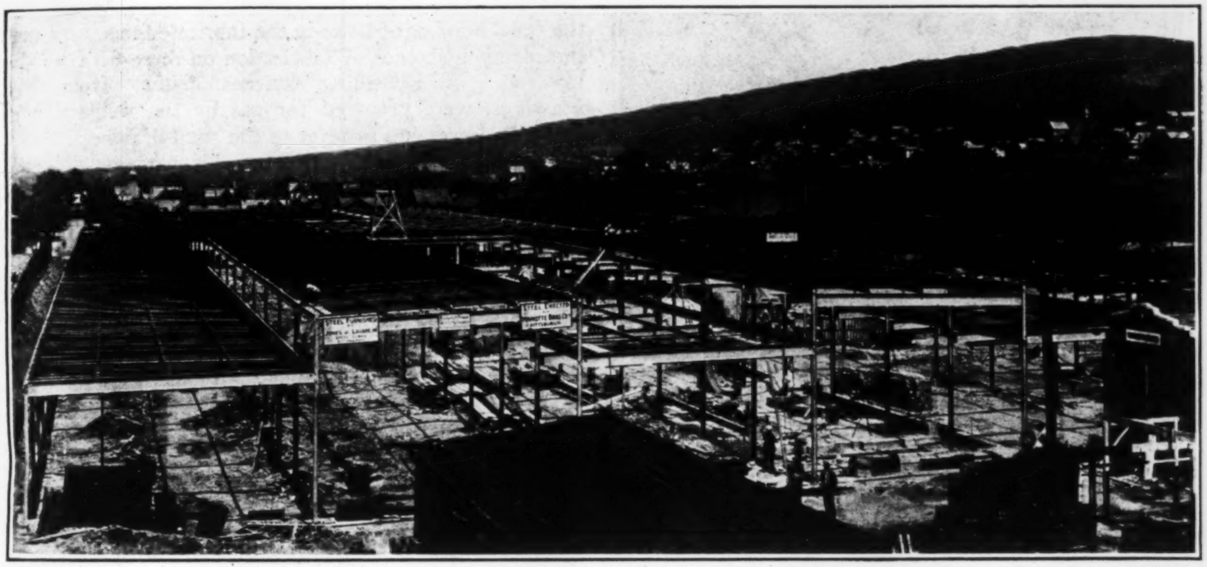


FIG. 1—ARC-WELDED TWO-ACRE BUILDING UNDER CONSTRUCTION

The contract was awarded at a lump sum of $26,582, the sum of the contractor's estimates, which may be divided as follows:

Plain material, on cars at building	200 tons	at	$42.20 =	$8,440
Fabricated material, on cars at building	137 tons	at	63.00 =	8,630
Erecting and painting	337 tons	at	18.49 =	6,232
Ground welding	858 feet	at	1.45 =	1,240
Welding in place	1,402 feet	at	.88 =	1,240
Welding sketches and special engineering				800
Contract price				$26,582

Welding Time—The detail of welding time and labor directly connected with welding is given in the accompanying table. In explanation of the columns in the table, "welding" refers to paid hours of work by welding operators other than time spent on moving equipment or on laying out work; the time in the "welding" column includes all time lost waiting for erectors to handle steel to and from the stocks where ground welding was performed, and all other lost time except for moving the welding machines. "Layout" refers to the time which the welding operator who acted as foreman spent on measuring and placing connection angles ready for welding and on supervision and direction of welding operators. "Helping" refers to 252 hours by one man who was employed throughout the job as a general unskilled helper for the welders, and to 146½ hours spent by welding operators and casual helpers in moving equipment and on odd jobs which could not be classed as welding or as layout, but which were connected with the welding operation. The average speed of welding, based on the welding hours shown in the table, was 3.5 lineal feet per hour in the case of ground welding, and 4.2 lineal feet or cubic inches per hour for welding in place. The time records did not distinguish between fillet welding and butt welding, and it should not be assumed that one lineal foot of fillet weld corresponded very closely in time with one cubic inch of butt weld. However, it is believed that the units are roughly comparable, because the 0.6 cu.in. of weld metal in a $\frac{5}{16}$-in. bead 1 ft. long is generally deposited at a slower rate per pound of metal than a simple butt weld deposited downward in a trough.

In estimating the time required to perform a job, the basis for butt welding may be cubic inches or pounds, but for fillet welding it should be lineal feet of welds for each size of fillet.

Description of Building—The building is L-shaped, the main body being 460 ft. x 150 ft., and the outstanding leg 142 ft. x 120 ft. The main area has 23 column spaces at 20 ft. the long way, and 5 spaces at 30 ft. the other way. The leg area has three spaces at 30 ft. and one at 52 ft. the long way, and six spaces at 20 ft. the other way. There are, altogether, 133 panels at 20 ft. x 30 ft. and 6 panels at 20 ft. x 52 ft., making the total ground area enclosed by wall column center lines 86,040 sq.ft. The total steel per square foot is 7.83 lb. The steel list

LABOR HOURS ON 2-ACRE 1-STORY ARC-WELDED BUILDING

	Hours, Labor				
Location	Welding	Layout	Helping	Total	Welding Done
On ground	246	143½	261½	651	858 lin.ft. fillet welds, ¼ and $\frac{5}{16}$ in., lengths ½ in. to 4 in.
In place...	333½	42	137	512½	1,080 lin.ft. fillet welds, mostly $\frac{5}{16}$ in. in 5 in. lengths; 322 cu.in. butt welds.
Total...	579½	185½	398½	1163½	1,938 lin.ft. fillet welds, ¼ and $\frac{5}{16}$ in.; 322 cu.in. butt welds.

is made up almost entirely of 6-in. and 8-in. H-columns, 18-in. and 24-in. I-beam rafters, 7-in. I-beam purlins, and built-up spandrels of various sections. The roof is flat except for slight drainage pitch, and alternates high and low in alternate bays in most of the area. The roof is poured-in-place gypsum with wire-mesh reinforcement.

The purlins, 7-in. I-beams at 15.3 lb., on 20 ft. spans, spaced about 7 ft. 6 in. on centers, rest on top of rafters except where the rafters are high, as at outer walls. Except at ends of rows, the purlins are continuous, this condition having been produced by welding tension plates to their top flanges and by butt-welding between bottom flanges at the joints. Except for this continuity, 8-in. I's would have been required. The typical rafters, which are on 30 ft. span from column to column, are 18-in. I-beams 54.7 lb., and, in general, are slightly pitched for roof slope. They are connected to the columns by side angles, one at each end, and are not continuous because consecutive rafters are at different elevations.

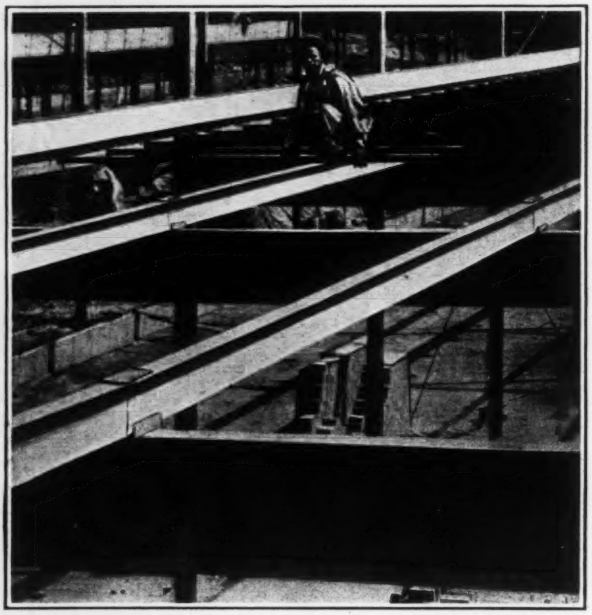


FIG. 2—PURLINS MADE CONTINUOUS BY WELDED PLATE ON TOP FLANGE AND BUTT WELD ON BOTTOM FLANGE

Welding Procedure—To suit the contractor's convenience, it was arranged to do all welding in the field. All columns were milled and punched, the punching being for erection bolts only. Spandrel beams were punched for erection bolts, and also for assembling where composed of two or more members, and also for bolts to attach wood facias where required. Rafters and purlins were shipped from mill to jib without fabrication.

A typical rafter detail, with column connections and support for purlins on top flange, is shown in Fig. 3. Since there was no opportunity for continuity of rafters, there was no object in using a rafter-to-column connection having a high bending strength. On the other hand, the deflection of the rafter under full load would be likely to crack a weld joining the web of the rafter to the flange of the column. The natural choice therefore lay between a seat connection and a side-angle connection; the latter was selected because it afforded a high and a low erection bolt with a minimum of field labor. It should be noted that the welding is arranged to allow twisting of the connection angle, without distortion of the welds, when the rafter sags under load. The small channel seats for purlins, as well as the end connection angles, were welded to the rafters before erection. Wood templets and a steel tape were used by the foreman welder and his helper in locating the connection members before welding, C-clamps holding the small parts in place until welded. In spite of the different angles of pitch, and the different distances back to back of connection angles, no errors were made in locating the parts, the rafters all going accurately into place when erected. No erection bolts were provided for purlins, which were lowered into the channel receptacles without any fastening. All bolts used for shop assembly of spandrel beams and for field erection were left in place after welding, because they were not considered worth the cost of removal. All painting was done after erection.

Shop drawings were simpler and cheaper to prepare than for a corresponding riveted structure, because of the small number of holes in the fabricated members, and the complete absence of fabrication on three-fifths of the material. Field welding sketches, distinct from shop drawings, were prepared for use by the welders, who rarely had occasion to refer to the shop drawings.

Unit stresses for design of welds were as follows: $\frac{1}{4}$-in. fillet welds in longitudinal shear, 2,000 lb. per in.; $\frac{5}{16}$-in. fillets, 2,500 lb. per in.; butt welds in compression, same as rolled steel (18,000 lb. per sq.in.). On this job, butt welds in tension or shear, and fillet welds in transverse shear, were not used. Where there was eccentricity in connections, as in the single side angles supporting rafters, it was allowed for.

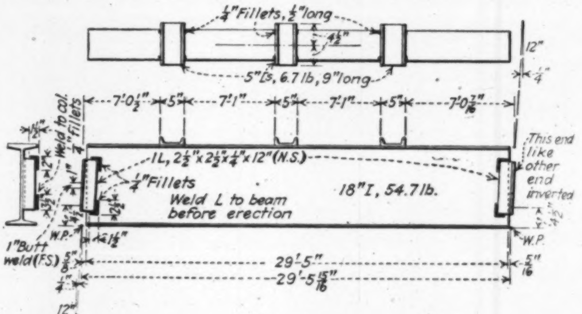


FIG. 3—TYPICAL RAFTER DETAIL SHOWING COLUMN AND PURLIN CONNECTION

The structure was built by the Jones & Laughlin Steel Corp., from plans by B. H. Prack, architect and engineer of Pittsburgh. G. H. Danforth, contracting engineer for Jones & Laughlin, was in charge of the operation. Minnotte Bros. Co., Pittsburgh, handled steel erection for the contractor. W. S. Rugg, vice-president in charge of engineering for the Westinghouse Electric & Manufacturing Co., exercised general supervision. Inspection of welding for the owner was by A. M. Candy, welding engineer of the Westinghouse Electric & Manufacturing Co. William Norberg was foreman of the welders. The writer acted for the contractor as consulting engineer. The welding equipment used on this job consisted of three portable Westinghouse motor-generator sets, 200-ampere single-operator type, with alternating-current motors.

FIFTH OF A SERIES OF ARTICLES:

Today in the Mississippi Flood Area

Engineering and Human Conditions in the Basins and Along the Levees as an Engineer Sees Them

By W. W. DeBerard
Associate Editor, Engineering News-Record

V—The Sugar Cane Industry and Atchafalaya Crevasses

IN A WAY the 1927 flood in Louisiana was a blessing in disguise to the sugar cane industry as a whole. The fields of cane were so infected with the mosaic disease that yields had dropped to bankrupt figures in 1926. Scientists have produced new tolerant varieties, but the planter had not been "sold" on them, for the ordinary reasons of inertia, lack of publicity and heavy expense for the new seed. The new varieties proved far more resistant to inundation, and an ocular demonstration of far-reaching value was exhibited when the yellow rotting Creole varieties were compared with the few fields of vigorous varieties even after immersion for 6 to 8 weeks.

Long before I got to New Orleans up-river cotton planters had told me that the sugar planters were in a bad way. They attributed the hard luck of their sugar producing friends to unwise extensions into sugarmill machinery. In consequence it seemed especially appropriate to look into the sugar situation more than casually.

In an interview of optimism with L. M. Pool, vice-president of the Marine Bank & Trust Co. about the general economic situation the question of the solvency of the sugar industry generally was broached. He indicated that for the past few years there had been a decided slump; that the cane area was limited; that the mosaic disease had about finished many of the planters; that the crop was "made" largely on the "gang" system of day labor with the laborer getting $1.25 to $1.50 per day, though there was a certain amount of share cropping and renting done; that the new varieties of cane were well established and promised to rejuvenate the industry; that much of the labor which had left during the flood was flocking back because it liked to "make sugar"; that credit conditions were healthy; that the big banks could amply care for the small ones in the country districts; that some of the country banks had money in Wall St.; that one small bank had only recently asked where surpluses might be placed; and that the various credits established had made credit easy enough, perhaps too much so. Mr. Pool checked previous information up the valley to the effect that the first of the year would show the greatest strain, since planters must then arrange for financing the 1928 crop. He was entirely optimistic about passing that period without undue difficulty. As to the sugar cane slump and bright future he referred me to Dr. A. H. Rosenfeld, consulting technologist for the American Sugar Cane League and the State Agricultural Credit Corporation, Inc.

Later I saw Dr. Rosenfeld. Nowhere have I ever been so impressed with the story of the remarkable assistance that research science can give to an industry as I have in listening to this sugar expert.

Dr. Rosenfeld is a Louisiana-trained scientist sent in 1910 to Argentine from the Audubon Park Sugar Experiment Station in New Orleans. The province of Tucuman suffered steadily declining yield due to degeneration caused by mosaic disease, the same scourge that has more recently ruined Louisiana's crop. Mosaic is a disease, the exact cause of which is not well known but it is akin, at least, to a filterable virus such as that which causes scarlet fever. The Tucuman plantations were 100 per cent infected, and the experimenters set out to find types of cane which through tolerance or immunity would replace the Creole canes, which had come from the same stock that have been used so long in Louisiana. Yields in Tucuman declined from 263,000 tons in 1914 to less than 45,000 tons in 1916 and 1917, conditions paralleling those of Louisiana when in 1925 and 1926 her fields yielded less than 7 tons per acre.

For the tests to locate resistant or tolerant canes 126 varieties were brought to Argentine from Louisiana, 76 from Brazil and 6 from Java, where similar experiments had long been carried out to combat Sereh, another dread disease of sugar cane. The Java canes were found particularly tolerant of mosaic. They are called locally P.O.J. varieties from the East Java Experiment Station, (Proefstation Oost Java, hence the initials) and the yield was found about three times that of the native varieties. In addition the juice contained more crystallizable sugar, there was greater resistance to mosaic and other diseases, as well as of insect ravages, it could stand lower temperatures and furnish more and better fuel bagasse. In Louisiana, with its Celotex industry, the increased bagasse content is important. In fact, this by-product use has been a decided factor in helping rehabilitate the sugar industry.

Now, as to Louisiana. In 1925 the condition of Tucuman in 1916 and 1917 was paralleled, with yellow fields of low yield. But already a few acres of the new canes with their vigorous growths were in existence. The 1926 hurricane centering over Houma, where much of the new stock had been planted, showed that it had remarkable resistance to physical punishment. The old stock was broken and battered, producing only 4 tons per acre to 14 tons of the new P.O.J. Seed supply was cut 40 per cent by the storm, but 23,500 acres were laid down this past year. Of this the flood immersed 5,000 acres, but not more than 1,500 acres were ruined. About 125,000 to 150,000 acres is the total normal acreage cultivated; the flood destroyed 33,000 acres.

The flood precipitated the financial question of money for seed. Sugar cane is not actually reproduced from seed but propagated by laying down in the fall a double line of canes in rows about 6 ft. apart and covering with earth. At each joint is an eye from which a new shoot sprouts. In the spring about 2 in. of the earth cover, put on 4 in. deep for frost protection, is scraped off. The first or "plant" crop is cut late the next fall. Two "stubble" crops during succeeding falls are usually cut, and then the land is plowed up and some nitrogenous enriching crop like alfalfa, cow peas or soy beans grown for a year or two. Thus three crops in five years is about the average and the plantation owner rotates his fields, utilizing as much as 30 to 50 per cent of his crop (the old varieties) for seed. Much less seed is required with P.O.J., the eyes are closer together, and they are more sure of growing. Crops expected are 25 tons per acre the first year, 25 the second and 20 the third. Further crops may be made, but not if production falls below 12 tons.

From 21 eyes in three stalks brought to Louisiana in 1922 there has now been developed enough to plant the total normal acreage this last fall and leave 250,000 tons for grinding.

Returning now to the financing, many of the planters last fall saw their salvation in P.O.J. but had no means to purchase seed. Business interests, bankers, railroads and the by-products people formed the State Agricultural Credit Corporation, Inc., with a capital of $325,000, which was deposited with the Federal Intermediate Credit Bank at New Orleans. This capital would permit borrowing some three or four times the amount from the Intermediate Credit Bank. Another $250,000 was required for financing the 1927 planting. Money was loaned only to planters who would plant P.O.J. stock. Last year the corporation financed one-quarter of the crop. Dr. Rosenfeld is positive that many loans will be repaid next year and that eventually the original investment will be returned to the founders of the corporation. Thus there will be returned to Louisiana a purchasing power of 40 to 50 million dollars annually through the practical adaptation of science to industry aided and accelerated by the experience of the 1927 flood.

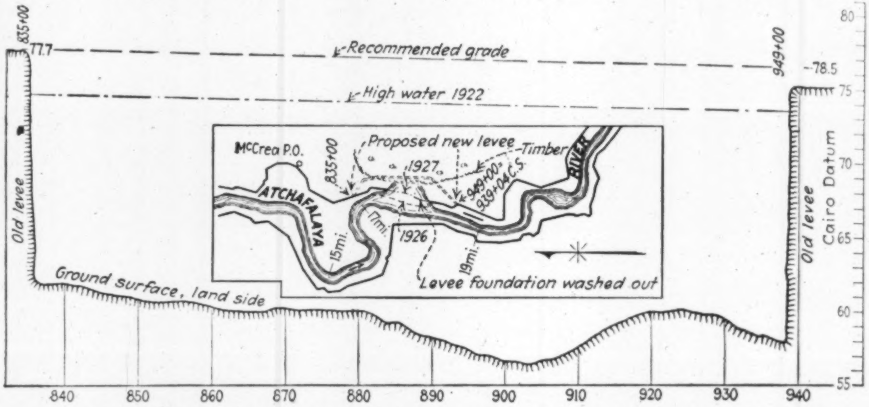


FIG. 1—CROSS-SECTION OF McCREA CREVASSE AND PLAN OF LOOP LEVEE

What sugar land in general is worth, and what that inundated is worth, cannot now be easily estimated, for few plantation owners are willing to set values when a new era of twice the tonnage and 20 per cent greater sweetness appears, one might say, even nearer than the horizon.

Some yields of various plantations, given in the accompanying table, indicate that first and second stubble crops (second and third year) are as good as the plant or first year crop. A ton of the P.O.J. cane produces from 8 to 10 per cent of sugar, or on the basis of the table from 2 to 3 tons per acre.

YIELDS OF P.O.J. CANE

Date	Plantation	Variety	Age*	Tons of Cane per Acre
10- 4-27	Acadia	P. O. J. 234	Plant	33
	Enterprise	P. O. J. 213	Plant	30
	Laurel Grove	P. O. J. 213	Plant	26
		P. O. J. 36	Plant	28.8
10-26-27	Ardoyne	P. O. J. 213	Plant	35
	Ardoyne	P. O. J. 213	Plant	34.12
10- 5-27	Southdown	P. O. J. 213	First Stubble	27.54
	Texas, White Castle	P. O. J. 234	Plant	25
	Wilbert's Myrtle Grove	P. O. J. 234	Plant	25
9-15-27	Raceland	P. O. J. 213	Plant	26.6
10- 6-27	Edna	P. O. J. 213	Plant	25
	Evergreen	P. O. J. 36	Plant	27.5
10- 7-27	Southdown	P. O. J. 36	First Stubble	37.51
10- 5-27	Southdown	P. O. J. 213	First Stubble	32.90
10- 7-27	Supple's Catherine	P. O. J. 213	Plant	28
	Supple's Catherine	P. O. J. 36	Plant	26
11- 1-27	Expt. Sta. Baton Rouge	P. O. J. 213	Plant	42.6
10-26-27	Ardoyne	P. O. J. 36	Plant	27.9
11- 2-27	Southdown	P. O. J. 213	Second Stubble	30.75

* "Plant" means crop from first year's planting and "First Stubble" from second year's growth.

A large local planter estimates that the new varieties are now yielding an average of 20 tons of cane or $1\frac{3}{4}$ tons of sugar which will be increased by 20 per cent with normal planting. Planting of new varieties has been very thin intentionally on account of the scarcity of seed. Good sugar land with some improvements but no mill and no crop is valued at $70. There has not been much increase due to new varieties but the market has been made more firm and loans extended thereby. Dr. Rosenfeld states that of late years land which might have been picked up at $30 to $35 has now come back to a value of $75 to $100, the price average before the ravages of mosaic. Based on earning power of 2 to 3 tons of sugar three out of five years such land should bring upward of $150 per acre but no one sees that price ahead at present.

In the "Sugar Bowl" country in the latitude south of Baton Rouge there is a restricted high-value district, but there are likely to be many acres of sub-marginal land in the vicinity added to the 135,000 acres Dr. Rosenfeld feels is worth cultivating for sugar.

Like all agricultural propositions there is always a "catch" somewhere. John F. Coleman says sugar cane breeds degenerate after about 20 to 25 years, this present occurrence being the third in his experience.

Two vital points come from this discussion: (1) What is the value of the sugar area that will be saved or lost by the proposed levees and floodways along the Atchafalaya and (2) What is to be the price of land that is now or will be planted to sugar cane that will lie within the floodway and have to be settled for either by easement or purchase?

It may not be amiss here to add that 20,000 acres of sugar land in the vicinity of Houma were saved by new low levees or topping old ones as a result of the warnings sent out by the veteran New Orleans weather forecaster, Dr. I. M. Cline. Much of this acreage was P.O.J. seed stock; thus science again assisted in saving the sugar industry. In preparing these predictions Dr. Cline made observations on the rate of advance of the flood waters. He came to a general average of 7 miles per day in the flat Louisiana delta country.

Melville and the Atchafalaya Crevasses—Since some of the water which escaped from the Atchafalaya levee breaks at Melville and McCrea, La., caused the sugar field flooding, a few observations made of these two

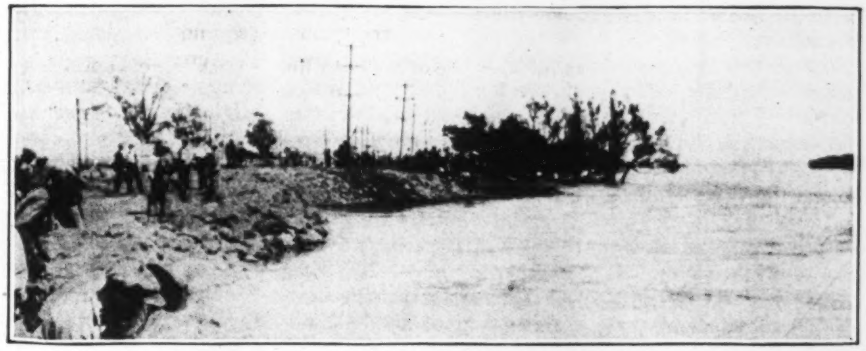
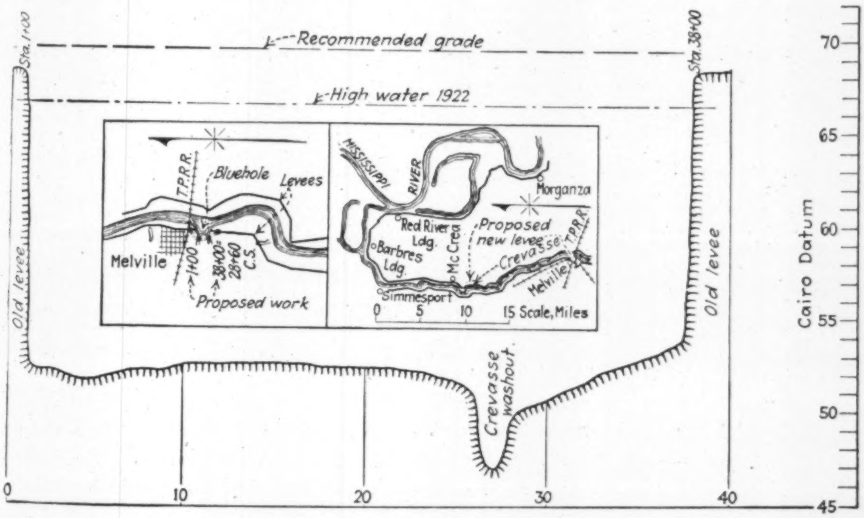


FIG. 3—EMERGENCY WORK TO HOLD A LEVEE

crevasses on Dec. 1 are included in this article. McCrea first, for it is up-river from Melville and was visited first after a drive from Baton Rouge over the ferry through country almost continuously flooded, not once but twice in 1927.

The break occurred at McCrea May 24 in the east side levee, and was due not to a failing levee but to undermining of its foundation. Inspection of maps showing the bank line in 1912 and again in 1922 (this was a state levee, though its repair has been undertaken by the Mississippi River Commission as an emergency measure) indicates that the batture or bank on the river side of the levee had been eaten rapidly toward the levee, and that by 1927 there was not much batture left. Lack of funds had precluded repairs in the way of a loop. Not a large blue hole was formed—perhaps because the site was an old cypress brake studded with stumps and "knees" and also because a certain amount of backwater head was built up due to the short distance (less than a mile) to a heavily wooded swamp. This same absence of heavy cutting was noted at Cabin Teele on the main river, where the break occurred in wooded country. As the river reaches the Gulf in half the distance it has twice the slope of the Mississippi, and in consequence has a much more rapid cutting capacity. It is working in virgin territory, however, as within the memory of the oldest inhabitant it once was only a chute across which men walked on logs.

Whether the policy of the M.R.C. to set back levees in the main river when cutting gets within 5 years of the levee would have sufficient factor of safety on the Atchafalaya is a question. Certainly a setback would have been made before it got within 1 or 2 years of the levee, had funds been available. The M.R.C. officials are watching all caving banks with appraising eyes. I visited one south of McCrea that is probably within the five-year limit, and was surprised to find caving extending back into the bank 100 to 200 ft. by general slumping and settling at least five feet vertically.



NO. 2—MELVILLE CREVASSE AND NEW LEVEE AROUND IT

The original crevasse carried away 2,000 ft. of levee, but the loop levee to repair it is two miles long in order to enclose the blue hole and set back the alignment to a safe distance, assumed at 20 years, away from the bank-eating river. The job calls for the movement of 600,000 cu.yd., about 5,000 cu.yd. per station for most of the alignment. A low bid of 31c. per yard was obtained, which was so much more than the 16c. estimated that all bids were rejected until the low bidder revised his bid to 24c. for the upper three-quarters. It is not the policy of the Fourth District of M.R.C. to let contracts when the low bid is much beyond 25 to 30 per cent over the estimate, but in this case the policy was stretched to 50 per cent. The contractor put on two dragline machines and the M.R.C. added one of their smallest 3-yd. draglines, averaging 50,000 yd. moved per month at a 9c. field cost, which with 3 to 5c. administration cost will still be measurably below the estimate.

The state section, which is considerably thinner and with much steeper borrowpit slopes than M.R.C. standard, materially reduced the yardage and costs. For the method of handling (with draglines), 20 per cent shrinkage was allowed. No particular difference in section was made for the various materials encountered. A center trench of about 10 to 15 ft. wide was excavated as a cutoff in which all stumps were removed, but they were not removed over the remainder of the levee base. Land values are $30 per acre within the cleared area paralleling the river in a strip from ½ to 1½ miles wide, back to the low swamp land valued at from $3 to $10 per acre.

Melville—Never, aside from the pathetic scenes of Dayton after the 1913 flood, have I seen more evidence of water devastation. Fourteen years ago I reached Dayton within 36 hours after the waters left town, but this was more than six months after the levee blew out. No one saw the blowout, the time was early morning, when the 1,000 people of the town were just getting up, and they had only an hour to rush to the levee or the railroad embankment which runs at right angles to the levees south of most of the town. Restriction of flow through subway entrances under the railroad gave the people the needed time to get out. Back levees eventually were all overtopped.

So close was the town to the crevasse that fine sand was washed in and deposited in the streets, houses and yards from 1 to 7 ft. deep. Removal of this sand has been the most expensive undertaking to rehabilitate the town. The Red Cross donated $125,000 to Melville for private use and the State Highway Department hauled away the sand deposited in the streets. Many owners of vacant lots are using the sand as filling and terracing; a few have raised their houses to the higher levels.

Right here let me interpolate that it is surprising how few houses in all of these inundated areas are built on elevated foundations. Rises in land are usually occupied and so are a few mounds of historic origin, but even in the best part of New Orleans less than 50 per cent, I would estimate roughly, are elevated more than 3 to 4 ft. above ground level.

Melville still is digging out. The brick schoolhouse has new furniture in the flooded first floor. Most of the stores have new stock. An air of briskness pervades the main street. Half a dozen negroes were loading sand from a vacant lot and from under a store adjacent on the main street. Red Cross workers were building a few new houses of the contractor's shack type and underpinning many more. Brown refugee tents were still in evidence, though not many. As in Arkansas City, house-moving trucks with eight low wide-tired wheels were in use. A drive of five miles to the west along the railroad showed where the waste sand from the town went; then beyond were farms with sand ridges and tongues stretched out behind any kind of velocity-checking obstruction. The sand is extremely fine, almost like quicksand. People accustomed to floods usually follow the water as it recedes to floor level, scrubbing and sweeping the muck out of their houses, but the Melville sand was too thick for anything but shovels.

Typical of the economics of the whole flood rehabilitation problem was a remark of one of the engineers who accompanied me through Melville. "Is it worth while for sentimental or any other reason to spend $500 to excavate a $300 house? Would it not be economy to burn, tear down or abandon the thousands of structures which at best are questionable as habitations?"

The crevasse at Melville is being looped by a levee containing 190,000 cu.yd., by a contractor who bid 23 cents. Early progress was good, but an idle M.R.C. dragline was being unloaded off a barge Dec. 1, to help the contractor complete the work by Jan. 1, two weeks beyond the contract date. The blue hole was small, and as at McCrea the foundation was full of stumps. No effort was made to remove them aside from a central cut-off trench. At first the railroad, which lost a pier at the west end of a swing draw-bridge, figured on moving the crossing upstream, but recent shipments of a large amount of stone ballast for filling around the existing piers indicate that it may have other plans.

The fate of the people in this area hangs on future action of the U. S. Government. So far they are hanging on, hoping for better protection, sale of property or reimbursement for easements for a floodway, or for some other exterior movement. One woman who had a vacant lot considerably elevated by the sand stated that her holdings were more valuable than before the flood. It would hardly seem reasonable to find prospective purchasers, but people cling to home localities with an unbelievable tenacity. Where there are people there is business, and business brings competition and more people. Just so all over the inundated areas traveled, at least 1,500 miles, were continued stories of people, whites as well as blacks, struggling back to their former locations from which they originally fled "never to return."

While these two crevasses on the Atchafalaya, the one to the east at McCrea and that to the west at Melville, added to the local floods, they accentuated the overflows of the lands downstream and back from the river. Young as it is, the river has overflowed enough to build up the area immediately adjacent, higher than the swamps 1 to 2 miles away. At the time the levee blew out Melville itself was already being flooded from the Bayou des Glaises breaks. The levees would have been overtopped due to the abnormal filling up of the Tensas basin feeding down the regular channel.

The report of the Chief of Engineers calls for strengthening the levees to afford protection 14 out of 15 years, but it also makes of the whole valley a floodway with a "fuse plug" system of levees at its head. Morgan City, Melville and Simmesport are to be inclosed by protection levees. This is the space best available hydraulically for the surplus waters to reach the Gulf, says the report.

The Atchafalaya never should have been leveed. It is 80 per cent swamp land now and the plan is to protect the developed lands to the same extent they now are protected, i.e., 14 out of 15 years. Will the sands of Melville be forgotten, the town again be prosperous and the back levees high enough when the next flood courses down the floodway 15 years hence?

The work of repairing these crevasses under state control as well as that of more than 50 other jobs under way by the M.R.C. in the Fourth District are under the charge of Major W. H. Holcombe, Corps of Engineers, U. S. Army. His military assistants are Capt. Thomas D. Stamps and First Lieutenant John M. Harman and his principal civilian assistant, George D. Waddill, associate engineer, who is in charge of lower river revetments. D. L. White is assistant engineer in charge of upper river revetments and F. C. Carey, assistant engineer in charge of levees. The major portion of the levee work is being carried out by some 25 contractors. On Nov. 1, 45 jobs were under contract and seven additional levees were being built by government machines. Revetment work is done practically all by Government forces.

Holland Tunnel Driving Records

A review of the data concerning the Holland vehicular tunnel at New York, published in this journal reveals the fact that no record has been made of the accuracy with which the shields met in driving the twin tubes under the Hudson River. Coming at the time of the death of Clifford M. Holland, the event did not receive the attention that otherwise would have been given to it. The headings of the north tube met Oct. 29, 1924, and the headings of the south tube met Dec. 7, 1924. Check of the alignment and grade gave the following results:

	North Tunnel	South Tunnel
Line	0.30 ft.	0.29 ft.
Level	0.02 ft.	0.03 ft.
Distance	0.54 ft.	0.73 ft.

The north tube headings met 585 ft. west of the Manhattan pier-head line and 2,605 ft. east of the New Jersey pierhead line. The south tube headings met 660 ft. and 2,540 ft. respectively, from the pierhead lines.

Central Power and Heating Plant For University of Iowa

Addition to Old Dam Provides Distribution Pipe Tunnel Across River—Turbines Have Separate Foundations

By B. P. Fleming
Head of the Department of Mechanical Engineering,
University of Iowa, and Consulting
Engineer, Iowa City

IN PREPARING plans for a large group of medical buildings at the University of Iowa, careful consideration was given to the necessary additional heating, lighting and power facilities. The writer was engaged to study the problem and report not only upon the requirements of this proposed group of buildings but upon a comprehensive scheme of heat and power development for the entire institution.

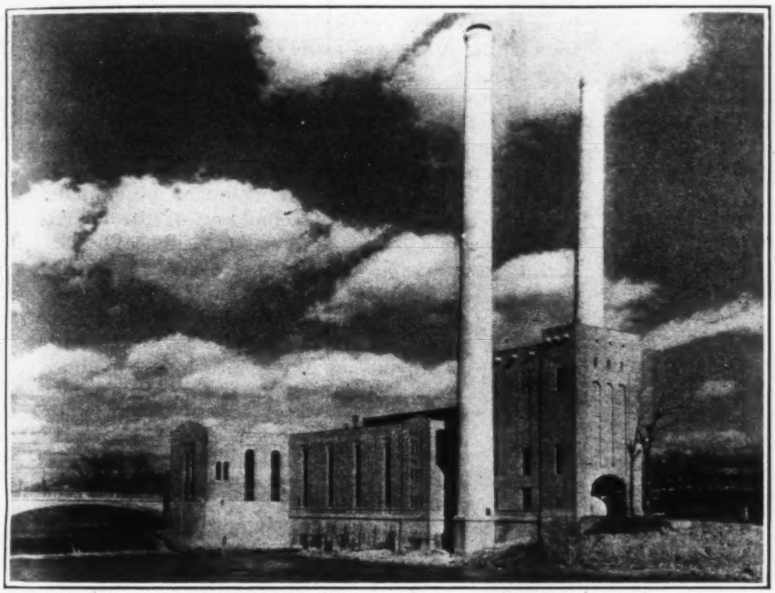


FIG. 1—NEW POWER STATION: UNIVERSITY OF IOWA
Power dam under bridge carries stem pipes in tunnel.

The Iowa River, about 350 ft. wide, subject to flashy floods of variable volume, flows southward through the campus. The university buildings chiefly occupy the bluffs for about ¼ mile back on either side, with the athletic field and open campus in the ½-mile flood plain between, making a total width of built-up area of about ¾ mile. At the south (lower) side of the campus, the university has a low-head power dam with the hydro-electric plant at the east end. The university has been served by four heating plants, one of which was also a power plant, with a partial system of distributing tunnels.

The new general plan consists of a central power and heating station at the east end of the dam, with heat distribution tunnels extending to the various buildings on either side of the river. The river furnishes abundant water for condensation, and coal may be delivered on a railroad spur. This central station, Fig. 1, will comprise a boiler plant built in units of four boilers each, all served by coal- and ash-handling facilities. One unit has been installed. The building is so located that the hydro-electric plant is housed in one corner, with space left for a second hydro-electric unit. A distribution tunnel was extended across the river by utilizing the existing power dam as the upstream cofferdam for an addition built against the downstream face, with the tunnel formed in this addition, as shown by Figs. 2 and 3. In this way the old dam, which was beginning to show signs of deterioration, was strengthened and repaired, and a tunnel was secured for a safe and dry conduit for steam mains.

The substructure of the heating plant was planned to be founded on rock, but the soundings were unreliable, since upon uncovering the site a fault was disclosed which necessitated the use of piling under the eastern half of the structure and added materially to the construction cost. In spite of this foundation partly on solid rock and partly on piling, no settlement cracks have appeared in the completed structure. The turbine foundations were carried down independently of the building to their own footings. The coal- and ash-handling unit, which is separate from the boiler room, is of reinforced concrete, with exterior brick facing. It comprises two 250-ton elevated coal bins and a 50-ton ash bin. The coal bins are not for storage primarily, but provide a bunker from which coal may be distributed by gravity to the boiler furnaces by an overhead motor-driven larry. The new concrete chimney is 9½ ft. in internal diameter at the top and 210 ft. high above the boiler room floor.

The main high-pressure steam header is connected to the tunnel lines through reducing valves and by-passes. A large low-pressure 20-lb. line, not yet installed, will convey bleeder steam from the main turbines and exhaust steam from turbine-driven auxiliaries to the low-pressure heating system on the east side campus. On the west side, high-pressure distribution is planned, with reducing valves at the buildings. The return water from heating systems on both sides of river flows to tanks in the low-level pump room by gravity, assisted by rotary vacuum pumps with automatic control.

Beneath the boiler room is a 250,000-gal. reservoir for water service for the institution. The rear end of

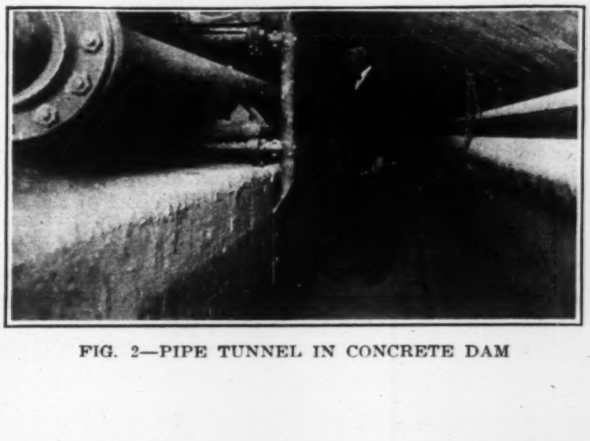


FIG. 2—PIPE TUNNEL IN CONCRETE DAM

the west row of boilers is supported by the roof of this reservoir, and its west wall is the west foundation wall of the boiler room. In flood time, when the lower floor may be 10 to 12 ft. below river level, drainage from the plant will be taken care of by an automatic sewage ejector in the base of the west chimney. The electrical generating equipment consists of two 1,250-kva. steam turbo-generators for two-phase 2,400-volt 60-cycle current.

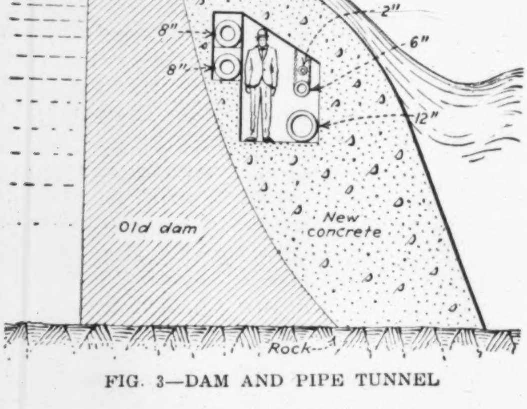

0 2 4 6 8 10
Feet
2"
6"
12"
8"
8"
Old dam
New concrete
Rock

FIG. 3—DAM AND PIPE TUNNEL

The development of this entire project, including preliminary studies, detailed design and construction, has been in charge of the writer. The architectural design is by Proudfoot, Rawson & Souers, Des Moines, Iowa. A. A. Alexander, Iowa City, was contractor for the main building unit and distribution tunnels; Priester Brothers, Davenport, Iowa, were contractors for the river crossing and for the second boiler-house unit now under construction. The Heine Chimney Co. built the two reinforced-concrete chimneys.

New Australian Interstate Bridge Opened

The new bridge over the Murray River at Mildura which links the state of Victoria with a flourishing agricultural section of New South Wales was opened recently in Australia by the British Secretary of State for the Dominions, reports Assistant Trade Commissioner Chas. F. Baldwin, Sydney, to the Department of Commerce. The bridge is one of four which have been built across the Murray in accordance with the terms of the Border Railways Agreement, which provides for the construction of five bridges. Its completion was characterized as one more link in the chain of great engineering works being projected in that section of Australia. Not only does the new bridge connect the Victoria and New South Wales banks of the Murray but it promises to become a magnet attracting returns from lands which hitherto have not been developed to the extent of their potentialities. It links Victoria with millions of acres of rich arable land in the neighboring state, in which the quality of the soil is declared by experts to be equal, and often superior, to that of the fertile Mildura district. The cost of the recently completed bridge was £100,000 which is to be shared proportionately by the two states. Its main span over the river is about 800 ft. in length, but with raised approaches specially constructed to withstand floods, its total length is more than a mile and a quarter.

Steel Foundation for River Tower of Transmission Line

Tower Rests on Trussed Frame Supported by Steel H-Beam Piles Driven Through Sides of Frame

By Paul L. Mercer
Assistant Engineer, Mississippi River Power Company, Keokuk, Iowa

An all-steel type of river foundation recently developed for use in the electric transmission line crossing of the Mississippi River at Fort Madison, Iowa, and shown by the view, Fig. 1, is thought to be of interest to engineers in general, not only because of the advantages that led to its adoption in this particular installation but also because of the possibilities it may suggest for other similar applications. The departure from the concrete and steel designs more commonly used for such locations was made largely because of cost considerations. The steel pier cost only $7,500, as compared with an estimated cost of practically twice this amount for the nearest competitor in concrete.

The building of the new and removal of the old bridge across the Mississippi River by the Atchison, Topeka & Santa Fe Railway Company necessitated the relocation and consequent rebuilding of the Mississippi River Power Company's river crossing of a double-circuit transmission line from Keokuk to Burlington, designed for future operation at 66,000 volts. The old crossing, operating at 11,000 volts, rested on wooden structures on the old Santa Fe bridge, with a steel tower on the upstream nosing of the draw rest high enough to provide proper clearances for the cables spanning the

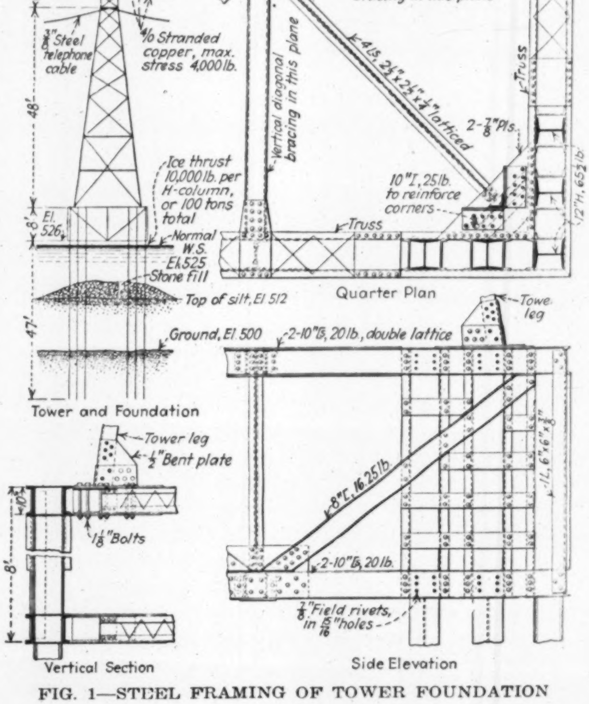

8'
8'
6'
48'
8'
47'
3/8" Steel telephone cable
4/0 Stranded copper, max. stress 4,000 lb.
Ice thrust 10,000 lb. per H-column, or 100 tons total
El. 526
Normal W.S. El. 525
Stone fill
Top of silt, El 512
Ground, El 500
Tower and Foundation
2-8" ⊏s, 13.75 lb. latticed
Vertical diagonal bracing in this plane
Vertical diagonal bracing in this plane
4 ∠s, 2½"×2½"×¼" latticed
2-7/8" Pls.
Truss
10" I, 25 lb. to reinforce corners
Truss
12" H, 65½ lb.
Quarter Plan
Tower leg
2-10" ⊏s, 20 lb., double lattice
8" I, 16.25 lb.
1 L, 6"×6"×7/8"
2-10" ⊏s, 20 lb.
7/8" Field rivets, in 15/16" holes
Side Elevation
Tower leg
1/2" Bent plate
10"
1 1/8" Bolts
8'
Vertical Section

FIG. 1—STEEL FRAMING OF TOWER FOUNDATION

navigable channel. With the building of the new bridge the same method of support on the bridge and a tower on the draw-rest nosing was followed, but with all structures built of steel for permanence and to match the substantial and impressive appearance of the new bridge. However, in addition to these structures four towers had to be located in the open river, supported on foundations entirely independent from the Santa Fe bridge.

These four piers were in water 5 to 13 ft. deep but where river stages vary only slightly because of the backwater from the Keokuk dam. As the tower loads themselves were not especially severe, ice became the greatest factor affecting the design. Ice often freezes to a thickness of 20 in. in this section of the river, and pressures up to 4 tons per lineal foot of ice are known to have been developed by the expansion of the ice fields with temperature changes.

Three of the piers supporting the transmission towers in the shallower water were cared for by steel grillages resting on wood piles and buried in islands of sand built by the hydraulic fill method. This plan, however, seemed unsuited for the fourth foundation because of the depth of water, 13 ft., and because of the danger of scour. After carefully considering a great many possible designs, the all-steel pier was finally adopted.

The structure consists of a box-like steel-trussed frame through which twenty 12-in. Bethlehem H-column piles 60 ft. long were driven practically to refusal through silt, sand and hard clay. The trusses, which sit clear of the water, form the bracing for the piles and makes the foundation a rigid unit. The H-columns are designed to take the weight of the structure, the maximum uplifts and reactions of the transmission tower, and the heavy ice thrusts which may occur during the winter seasons. A total ice thrust of 100 tons in any direction was provided for, at maximum stresses of 22,000 lb. per sq.in. in the steel. Fig. 1 shows details of the steelwork.

In construction, all material and equipment had to be handled on barges. This fact made steel the most economical material to use because it provided the required strength with a minimum of bulk and because it required no cofferdam, cribs or underwater operations. It is believed that the combination of heavy steel sections, asphalted and submerged, has eliminated any cause for apprehension in the matter of corrosion of steel exposed to water.

The steel trusses were set above the water to keep them above the ice and to simplify their erection and the riveting of the piles to the trusses. In erecting the foundation the steel trusses were first built up on timber falsework and securely anchored in the location desired by means of temporary wood piles. The trusses were then used as guides for driving the steel piles with swinging leads. The twenty piles were all first dropped through their respective slots in the trusses and rested on the river bottom so that the structure might have as much support as possible against being disturbed by the driving of any of the piles. Fortunately no obstructions were struck in the driving and an approximate penetration of about 35 ft. was reached by each pile. After driving, the tops were cut off flush with the trusses, rivet holes burned and reamed in the piles, and the structure riveted together. All exposed steel was then given two coats of asphaltic paint and the falsework was removed, leaving the foundation ready for the tower.

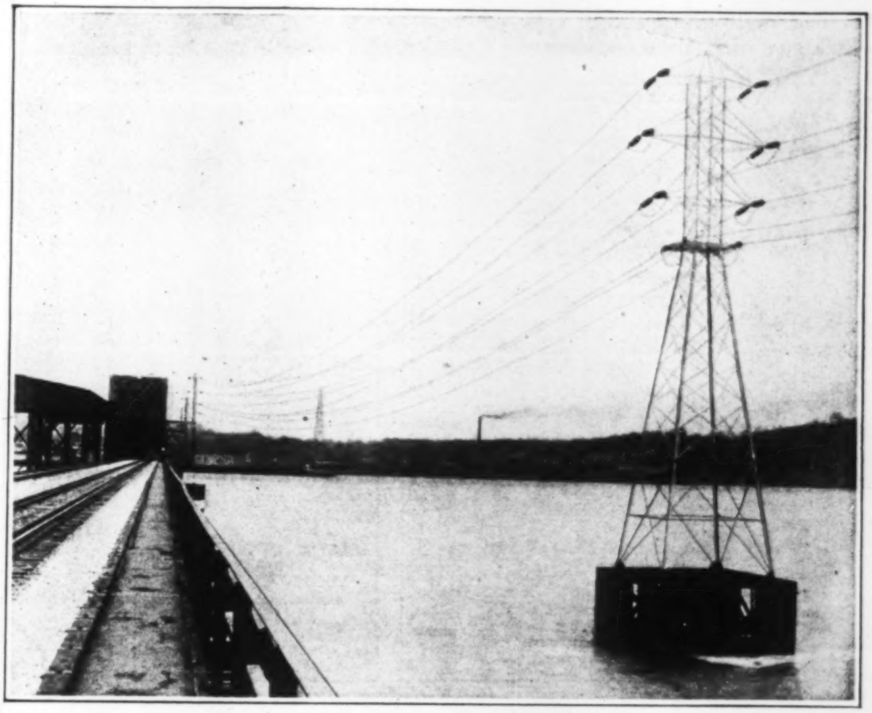


FIG. 2—RIVER TOWER OF 66,000-VOLT DOUBLE TRANSMISSION LINE AT FORT MADISON

Later a pancake-like layer of rock 6 ft. thick is to be placed around the steel piles to give greater rigidity at the river bottom, which consists of a finely divided silt deposit overlying the alternate layers of coarse sand and hard clay found in the lower depths.

In over-all dimensions the foundation is 20 ft. square and the trusses 8 ft. in height. The top and bottom chords of the trusses consist of two 10 in.-20 lb. channels double latticed and spaced 12 in. back to back. This spacing was just sufficient to allow the H-sections to drop through comfortably.

The foundation was designed by the writer under the direction of Albion Davis, chief engineer of the Mississippi River Power Company. Steel fabrication was by the Kansas City Structural Steel Company and erection by the Union Bridge & Construction Company, M. C. Taylor was superintendent of erection. The last-named company had the contract for building the bridge piers and abutments of the new bridge and for the removal of the old bridge. It therefore was well equipped for economically handling the erection of the transmission tower foundations.

Repair of Hurricane Damage to Two Miami Buildings

Condition of Meyer-Kiser and Realty Board Buildings—Value of Ordinary Wind Connections—Upper Part of Meyer-Kiser Building Removed—Realty Board Building Stiffened by Extra Bracing

By E. A. Stuhrman
Structural Engineer, Miami, Fla.

Reconstruction of two high steel-frame office buildings in Miami, Fla., that had been damaged by the great hurricane of Sept. 18, 1926, was carried out during the past year. The Meyer-Kiser Building, which had been greatly distorted, was partly taken down; the upper ten stories were removed, so that the building is now only seven stories high. The Realty Board Building, which was damaged mainly by the partial destruction of walls and partitions, was strengthened by additional bracing of the steel frame. The writer was the engineer in charge of the reconstruction of both buildings.

A general report of the action of the hurricane and of the condition of the two buildings in question was given in *Engineering News-Record* at the time (Sept. 30, p. 554; Oct. 7, 1926, p. 586, and Oct. 14, 1926, p. 624). More detailed examination of the buildings subsequently, however, gave much fuller knowledge of their condition and their resistance to wind action, as brought out in the present article.

Condition of Meyer-Kiser Building—Of the two buildings, the Meyer-Kiser suffered by far the more severe damage (see Fig. 2, showing the relative locations and the distortions of the two structures). As described in the previous articles, above referred to, it was bent about 2 ft. out of plumb, the distortion of the south or front face occurring in the seven stories between the third and tenth floors, while the parts above and below this remained practically plumb.

In comparison, the Realty Board Building was found to have only very slight distortion. Enlarged diagrams of column profiles and a top plan of this structure are shown in Fig. 4. The maximum displacement of the top tier with respect to the base was $3\frac{7}{8}$ in. northwestward, as determined by careful surveys. A considerable twist in the steel frame is evident. While some of this may have been due to erection inaccuracies, the amount is far in excess of the limits specified by the American Insti-

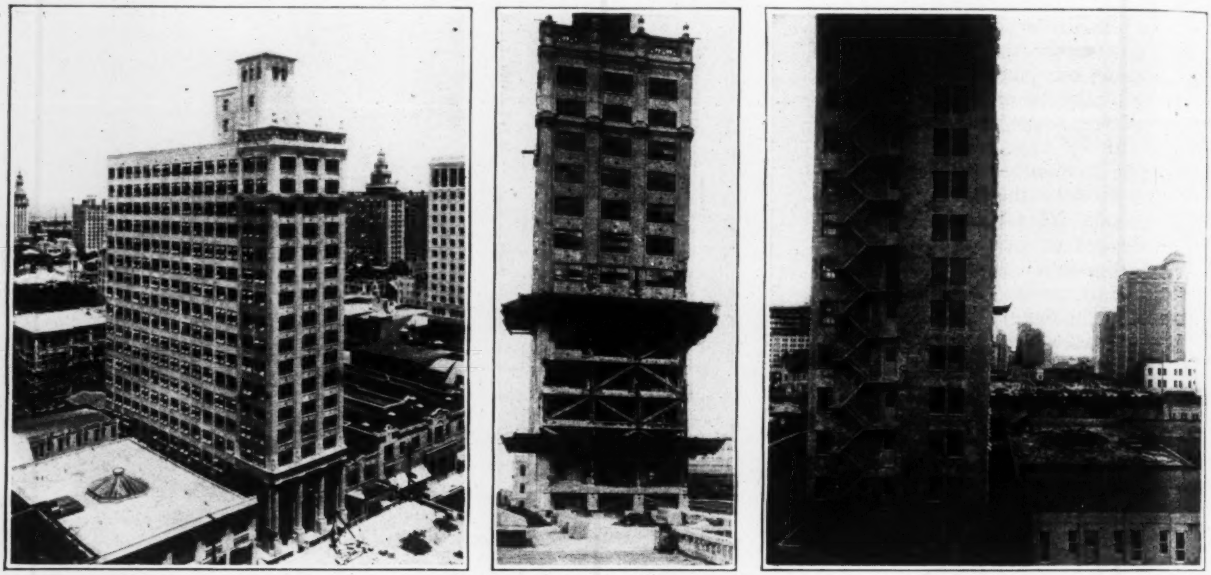


FIG. 1—MEYER-KISER BUILDING, MIAMI, WRECKED BY THE 1926 HURRICANE
Left: Building before the hurricane. Center: Front of building at start of demolition work, after the hurricane. Braces and staging placed for demolition work. Right: Rear view, showing twist of structure.

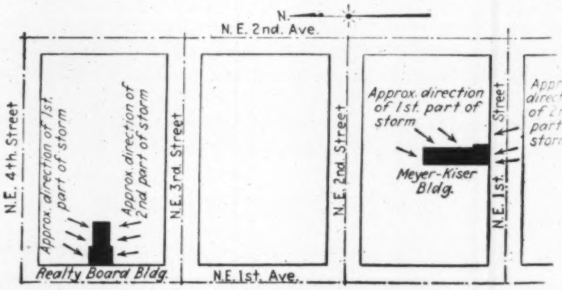

N.
N. E. 2nd. Ave.
N.E. 4th. Street
Approx. direction of 1st. part of storm
Approx. direction of 2nd part of storm
Realty Board Bldg.
N.E. 3rd. Street
N.E. 1st. Ave.
N.E. 2nd. Street
Approx. direction of 1st. part of storm
Meyer-Kiser Bldg.
N.E. 1st. Street
Approx. direction of 2nd part of storm

FIG. 2—LOCATION AND DISTORTION OF MEYER-KISER AND REALTY BOARD BUILDINGS, MIAMI
Approximate direction of the wind during the first and second part of the storm indicated by arrows.

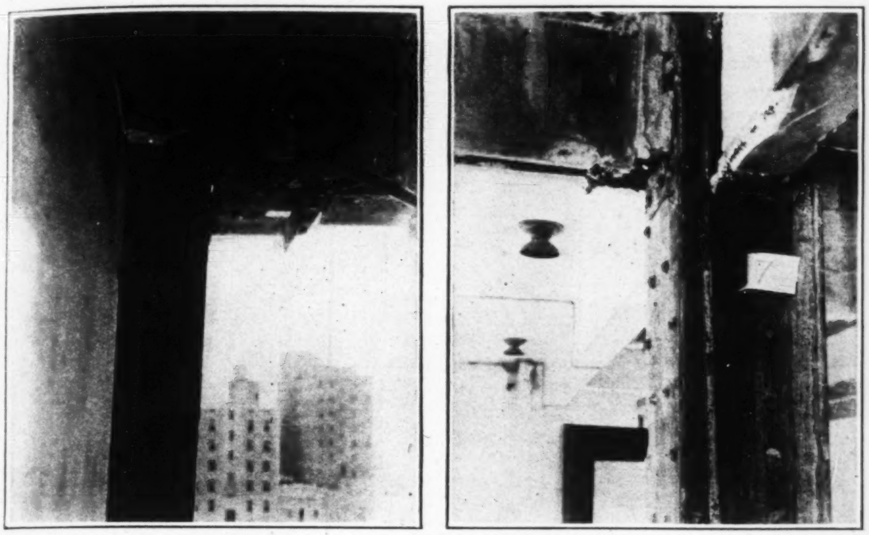


FIG. 3—FRONT-WALL COLUMN CONNECTIONS IN MEYER-KISER BUILDING
In the badly distorted part of the building the angles connecting columns and windbracing girders were bent or cracked. A cracked angle is shown at the right.

tute of Steel Construction. In the case of the Meyer-Kiser Building there is, of course, no doubt that the distortion was directly due to the hurricane.

In the front line of columns (Fig. 3) many angle connections were broken, and others were bent and partly pulled away from the columns. The columns were permanently bent between the third and tenth floors, the bending occurring above and below each girder connection, as brought out by the view Fig. 7. From the third bay to the north, however, the columns had no permanent set but were curved up in the form of a reversed curve from the ground up to the tenth floor.

As the upper stories of the building were taken down, the frame sprung back about 3½ in.; had it not been for the permanent set in the front columns it would have sprung back still more, I believe. The elastic spring of the frame manifested itself in a remarkable way by tremendous pressure on the timber diagonal bracing which was placed in the panels of the front wall during the demolition work as a safeguard. As the wrecking proceeded the bracing was not removed quickly enough, with the result that the 12x12-in. diagonal timbers in compression under the elastic spring-back pressure of the frame were bowed out of line about 6 in., and only with great difficulty could they be removed before failure.

The floor system in this building was of tile and concrete, but the spandrel beams were not incased in concrete. These floors, in the zone of distortion of the building, failed at each column due to torsional action. As the Realty Board Building, which had similar floors but with concrete incasement of the spandrel beams, showed no signs of failure in the floors, the writer concludes that all windbraced buildings should have their spandrel beams incased in concrete for the sake of the additional rigidity given by this incasement.

In both buildings it was evident that the floors acted as horizontal beams or cantilevers which transmitted the horizontal wind shear from one bent to another.

Reconditioning the Meyer-Kiser Building in its new and final height of seven stories was a relatively simple operation. The steel frame was amply strong for loads and lateral stress in this reduced height even in its distorted condition, and as it did not encroach on the property limits it was not disturbed. The columns were incased in reinforced concrete, and concrete spandrels were built out to the property line, so that, while the frame remains out of plumb, the concrete and masonry are true to line.

Realty Board Building—Interesting problems were presented by the fifteen-story Realty Board Building in the matter of determining whether it required strengthening and how the reinforcement could best by provided. The building is 45 ft. wide at the front (west face), 34 ft. at the rear, and 94 ft. 4 in. long east to west. Its total height from ground to roof level, excluding pent houses, is 165 ft. 9 in., which makes the ratio of height to width 5 to 1 at the east face and 3¾ to 1 at the west

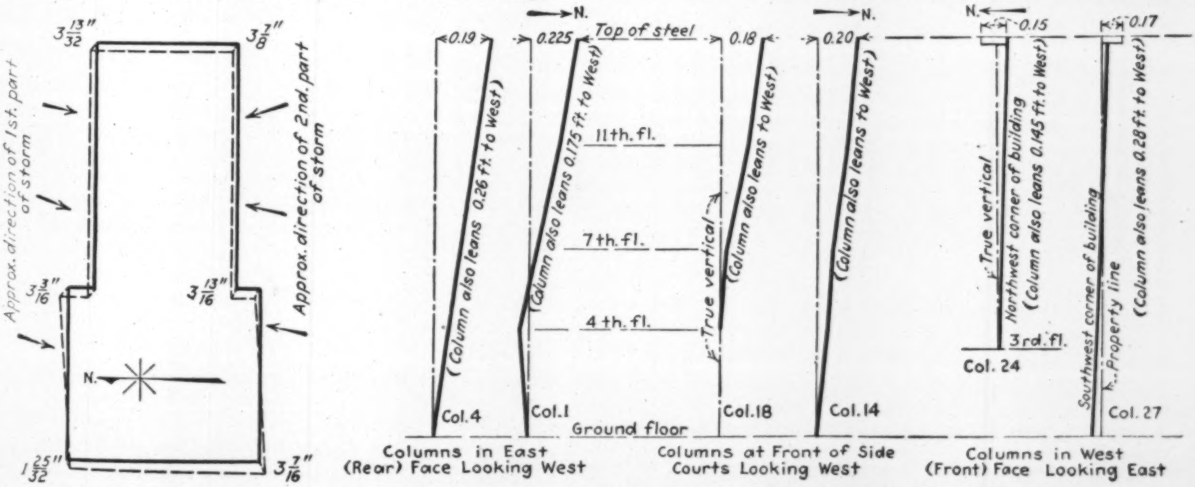

3 13/32"
3 7/8"
Approx. direction of 1st. part of storm
Approx. direction of 2nd. part of storm
3 3/16"
3 13/16"
N.
1 25/32"
3 7/16"
N.
0.19
0.225
Top of steel
0.18
0.20
N.
0.15
0.17
(Column also leans 0.26 ft. to West)
(Column also leans 0.175 ft. to West)
11th. fl.
7th. fl.
4 th. fl.
True vertical
(Column also leans to West)
(Column also leans to West)
True vertical
Northwest corner of building
(Column also leans 0.145 ft. to West)
3rd. fl.
Col. 24
Southwest corner of building
Property line
(Column also leans 0.28 ft. to West)
Col. 4
Col. 1
Ground floor
Col. 18
Col. 14
Col. 27
Columns in East (Rear) Face Looking West
Columns at Front of Side Courts Looking West
Columns in West (Front) Face Looking East

FIG. 4—DISTORTION PLAN OF REALTY BOARD BUILDING AND COLUMN PROFILES AT MAIN WIND BENTS

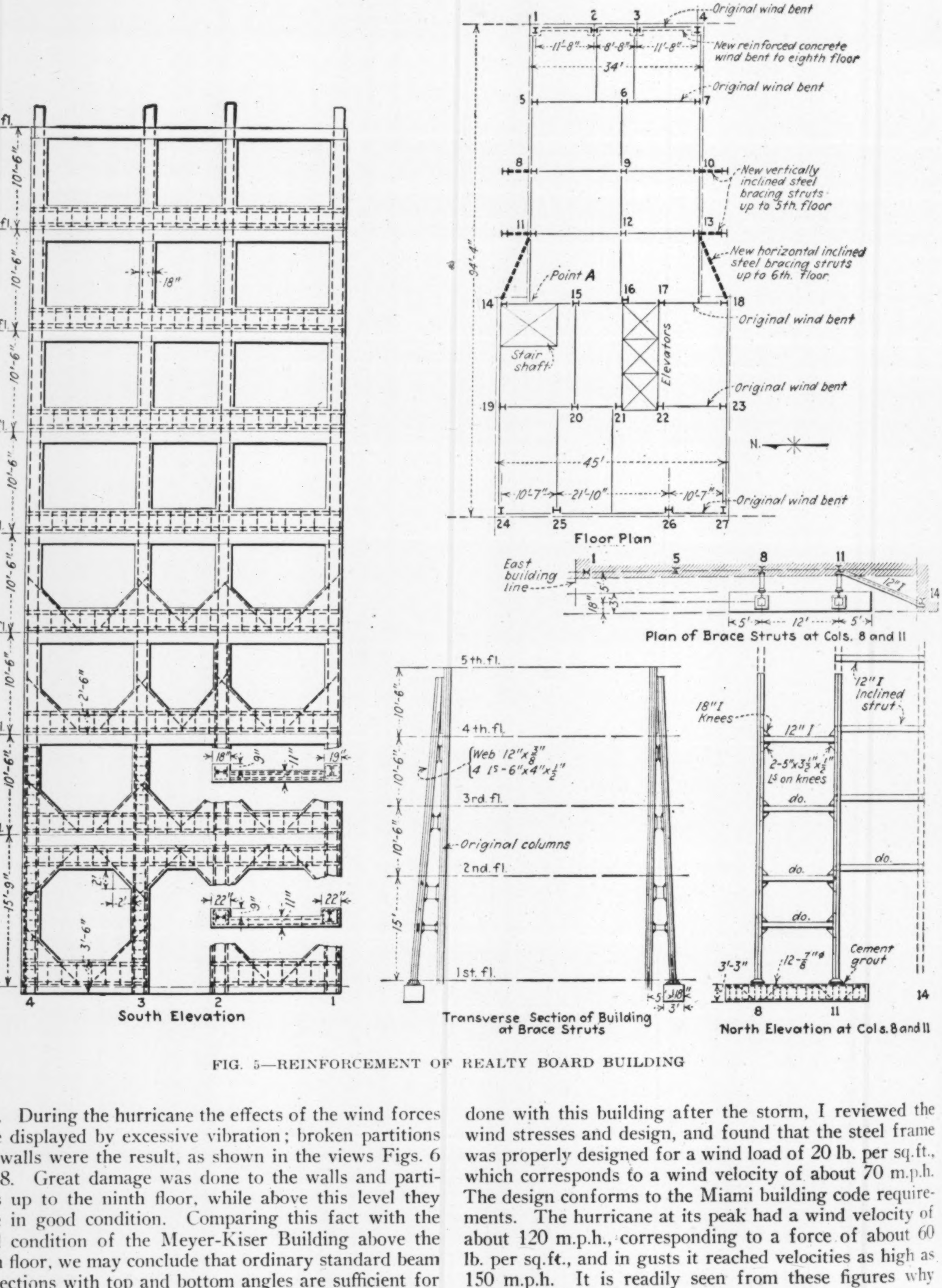

9th. fl.
8th. fl.
7th. fl.
6th. fl.
5th. fl.
4th. fl.
3rd. fl.
2nd. fl.
1st. fl.
10'-6"
15'-9"
18"
2'-6"
3'-6"
2'
19"
9"
11"
22"
South Elevation
Original wind bent
New reinforced concrete wind bent to eighth floor
11'-8"
8'-8"
34'
94'-4"
New vertically inclined steel bracing struts up to 5th. floor
New horizontal inclined steel bracing struts up to 6th. floor
Point A
Stair shaft
Elevators
N.
45'
10'-7"
21'-10"
Floor Plan
East building line
12"I
5'
12'
Plan of Brace Struts at Cols. 8 and 11
Web 12"x3/8"
4 ∟s-6"x4"x1/2"
Original columns
15'
3'
Transverse Section of Building at Brace Struts
18"I Knees
12"I
2-5"x3 1/2"x1/2" ∟s on knees
do.
12"I Inclined strut
Cement grout
3'-3"
12-7/8"φ
North Elevation at Cols. 8 and 11
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27

FIG. 5—REINFORCEMENT OF REALTY BOARD BUILDING

face. During the hurricane the effects of the wind forces were displayed by excessive vibration; broken partitions and walls were the result, as shown in the views Figs. 6 and 8. Great damage was done to the walls and partitions up to the ninth floor, while above this level they were in good condition. Comparing this fact with the good condition of the Meyer-Kiser Building above the tenth floor, we may conclude that ordinary standard beam connections with top and bottom angles are sufficient for buildings nine to ten stories high, with ratio of width to height about 1 to 2½; this corresponds to generally accepted practice as to omission of extraordinary wind-bracing.

Before a decision was reached as to what should be done with this building after the storm, I reviewed the wind stresses and design, and found that the steel frame was properly designed for a wind load of 20 lb. per sq.ft., which corresponds to a wind velocity of about 70 m.p.h. The design conforms to the Miami building code requirements. The hurricane at its peak had a wind velocity of about 120 m.p.h., corresponding to a force of about 60 lb. per sq.ft., and in gusts it reached velocities as high as 150 m.p.h. It is readily seen from these figures why excessive vibration took place.

In the floor plan (Fig. 5) it will be observed that the transverse wind bents in the original design were placed at Cols. 1-4 (east face), 5-7 (the line of columns next adjoining), 14-18 (fifth bents from the east, at the junc-

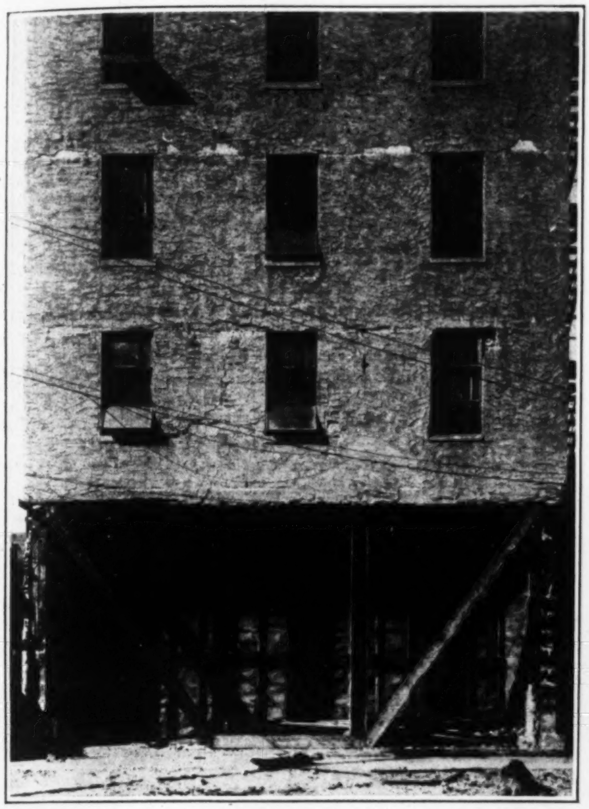


FIG. 6—REALTY BOARD BUILDING, MIAMI, REAR WALL, CRACKED AT EACH FLOOR GIRDER UP TO 10TH FLOOR

Wall in the first story was removed after the hurricane and timber diagonal braces set for temporary stiffening.

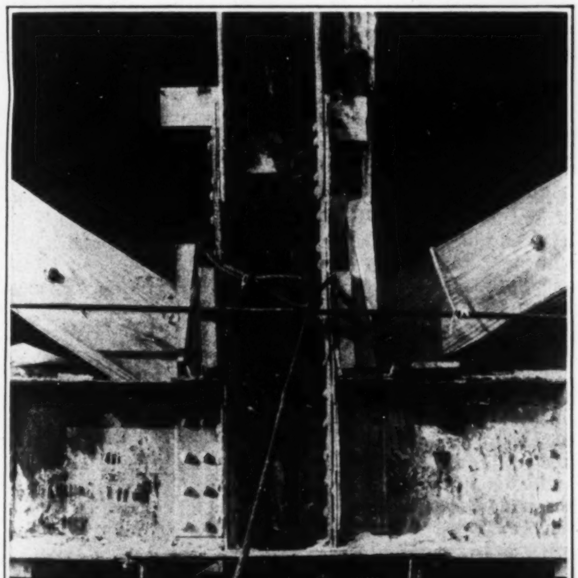


FIG. 7—TYPICAL BENDING OF FRONT-WALL COLUMNS OF MEYER-KISER BUILDING

View of sixth floor. Girders are straight but columns are bent above and below girder.

tion of narrow and wide parts of the building), 19-25 (the second bent from the west) and 24-27 (west front). No wind bents were provided in the transverse lines 8-10 and 11-13, presumably for architectural reasons. It therefore became necessary for the floor slab to transfer the wind pressure on the rear half of the building backward to the rear bents 1-4 and 5-7, and forward to bent 14-18. That it accomplished this transfer successfully is apparent from the undamaged condition of the floors. However, the load transfer manifested itself in a serious form at point *A*, near Col. 14 (Fig. 5), where the stair shaft walls were shattered up to the tenth floor. Evidently the beam extending from Col. 14 to Col. 15 lacked sufficient horizontal compressive or bending strength to transmit the accumulated wind shear at this point.

After giving this structure a great deal of study, I decided that the most feasible and economical means of adding stiffness to the frame was the provision of monolithic reinforced-concrete spandrel construction in the framework of the rear wall (bent 1-4), and provision of vertical and horizontal inclined steel struts to brace the outer columns of bents 8-10 and 11-13. This additional bracing is sketched in Fig. 5.

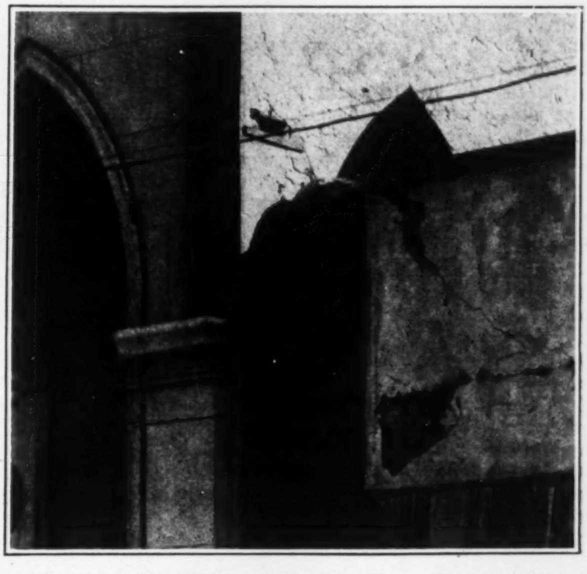


FIG. 8—FRONT CORNER OF REALTY BOARD BUILDING

When the building vibrated in the hurricane its southwest corner battered against the low adjoining building and broke away part of its coping.

The reinforced-concrete incasement of columns and spandrel beams in the rear wall extends from the ground up to and including the eighth floor. Cols. 8, 10, 11 and 13 are braced each by an outer bracing column placed in the side court and extending up to the fifth floor; intermediate connections tie the bracing column to the main column and form a strong portal system. The bracing columns have reinforced-concrete combined footings, as shown.

To take care of the load transfer at bent 14-18, which had caused the wall failure in the vicinity of point *A*, as already mentioned, horizontal steel struts were placed from Col. 11 to Col. 14, and from Col. 13 to Col. 18 at each floor level from the second to the sixth. It is believed that this construction will transmit any wind shear from the rear half of the building directly to the line of Cols. 14 to 24, thereby eliminating the observed weakness.

Letters to the Editor

A Forum for Discussion of Views of Engineers and Contractors

Study of Sewage Settling Tank Design

Sir—I have read with much interest the article by C. H. Capen, Jr., on "The Study of Sewage Settling Tank Design," together with your editorial thereon appearing in *Engineering News-Record* of Nov. 24, p. 833. The article contains much of interest, but probably owing to lack of space not sufficient data seems to have been given to substantiate certain of the conclusions reached.

It would seem desirable before the suggested method of rating the efficiency of settling tanks in terms of percentage of utilization of the settling capacity is generally accepted that it be demonstrated more clearly that this method is a true measure of tank efficiency. The true measure of settling tank efficiency is the percentage of the settleable solids that are removed by the tank and it is not apparent from the data given that the new method proposed gives results corresponding with the true figures.

In the extreme cases of high velocities, such as the recent measurements in the Winnipeg aqueduct by the salt velocity method the "flowing through period" (*Engineering News-Record,* April 28, 1927, p. 693) was considered the same as the "detention period," or as a settling tank the aqueduct would have 100 per cent efficiency which is of course absurd. Yet in a true settling tank it is possible by the use of baffles to approach this condition both as to "complete utilization of the settling capacity" and the low actual removal of settleable solids.

The table showing the Efficiency Rating of Settling Tanks at Sewage Works of Four New Jersey Towns appearing in Mr. Capen's article unfortunately gives but meagre information as to the true efficiency of the settling tanks in question as measured by the removal of the settleable solids. The two cases that appear at all comparable are the Philipsburg tank, when cleaned and operating under two different rates of flow. The results here, however, are not in support of the new rating method. Here tanks of a rated efficiency of 48 per cent gave a settleable solids removal of 81 per cent while under different conditions with an efficiency of 30 per cent the removal was actually greater or 89 per cent.

Under the heading of "Recommendation as to Design" it is interesting to note that an 8-hr. detention period is suggested for single-story settling tanks and a 2½- to 4-hr. period for an Imhoff tank, all of which is based presumably on the studies and observations cited. That is, the settling space in an Imhoff tank is considered to be from two to three times more effective per unit of volume than in other types. The outstanding difference between the settling chamber of the Imhoff tank and that of the plain flat bottomed tank is that in the Imhoff tank part of its capacity is in the more or less dead water space formed by the sloping bottom leading to the slots. This characteristic makes the Imhoff tank inherently less efficient as measured by "the complete utilization of its settling capacity," yet it is apparently not so considered.

In connection with the selection of settling periods up to 8 hr. it would be interesting to know what weight has been given to considerations of the effect of the longer periods on the quality of the effluent, particularly in reference to oders and troubles with gas lifted solids so familiar in the days of septic tanks.

Little exception can be taken to the general remarks under "Conclusions" except perhaps to go a little further with the observation that excellent removal of settleable solids has been secured in tanks of moderate detention periods when the length-width, ratio was less than 2.

Mr. Capen has done a service in advancing the data given, but it should be borne in mind that the function of a settling tank is to remove settleable solids and its efficiency should be rated on that basis. The actual time of passage of liquid through a tank is of little importance as long as in doing so it is capable of separating itself from the solids. To this end careful design is indeed necessary.

New York City, **Richard H. Gould,**
Nov. 30, 1927. Sanitary Engineer.

Sir—Mr. Capen's article on the "Study of Sewage Settling Tank Design" contains some interesting information. The efficiency, or rather the inefficiency, of sewage settling tanks has been observed for many years, and although many engineers have attempted to improve designs by following either personal hobbies or inadequately proved schemes, the usual result has been to adhere to customary construction. The size of the tank, as Mr. Capen says, has generally been proportioned to the so-called detention period, having little regard to the flow-through-period. The employment of baffles has been largely upon the hit-or-miss plan.

Many engineers have had little or no patience with inspectors who have, by means of colored dyes, attempted to show the rapid passage of some parts of the flow through the tank, thereby indicating tank inefficiency because of the lack of time given to a portion of the flow for the settling of its suspended matter.

The method of testing the flow, described by Mr. Capen, may be superior to the use of dye, and the writer compliments Mr. Capen for taking up this matter and bringing it forcibly to the attention of designing engineers. Careful scientific study of this subject is needed followed by some real practical experimentation on a large scale, and if Mr. Capen's method proves to be satisfactory for a rapid means of testing, it will be most useful.

As to the conclusions drawn by Mr. Capen, the writer is not surprised. Nothing seems to appear which has not been recognized for a long time by most of our experienced and thinking engineers. That however, does not prevent a repetition of such facts from being profitable to us.

What we need is some one to tell us how to design tanks which will be efficient and tanks in which, as Mr. Capen says, "the ratio of the flowing-through period to the detention period is unity," or nearly so.

The writer therefore hopes that Mr. Capen's work will be appreciated and that his method of testing will become the means of stimilating others to improve on tank designs.

Harrisburgh, Pa., **F. E. Daniels,**
Dec. 2, 1927. Chief, Industrial Waste Section,
Pennsylvania State Department of Health.

Sir—I was much interested in Mr. Capen's article, "Study of Sewage Settling Tank Design." The article is timely and has considerable academic value, but there it contains some statements that might be misleading to the designers of tanks, and to those engineers who report on the efficiency of existing tanks.

In Conclusion 8, Mr. Capen states that, "Analyses for solids will not always agree with the efficiency rating, but are somewhat consistent." Is not the analysis for solids the true scale for measuring the efficiency of a tank for settling purposes? The writer's idea of an efficient tank would be one in which the most solids were settled out and removed, without nuisance, for the least capital and operating costs.

Sodium chloride, as a chemical agent for determining flow-through values, is superior to other salts, for it is less influenced in solubility by changes in temperature than other salts, and is easily titrated. However, the density or specific gravity of a solution of salt is usually greater than that of the sewage and in each case varies with the concentration. If the solution is injected near the surface at the influent end, the solution will have a tendency to sink through the sewage during the flow-through period, and some of the chlorides will be retained in the sludge.

Tests at Dallas on Imhoff tanks and at Waco, Texas, on an activated-sludge plant, show a consistent drop in chlorides, after repeated tests, from influent to effluent. This can only be explained by the theory that chlorides are retained in the sludge which, of course, does not appear at the effluent. Otherwise, all tanks should show an increase in chloride con centration, due to the evaporation in tanks during the flow through period.

Osmotic and solution pressure would have a slight bearing on the results obtained by titration. There is a tendency for the molecules, after entering the liquid, to move in every direction and, consequently, a certain negative velocity or lag will appear by the use of salt solution, whereas certain dyes will diffuse to some extent, but will not show negative velocities except in the case of back water.

Mr. Capen's statement in Conclusion 7 that "velocity is unimportant" can not be applied generally. In an extreme case of a circular pipe being used as a settling tank, the flow-through efficiency would be maximum at high velocities and at the same time the settling would be at a minimum.

The writer has recently designed and constructed a settling tank for Jacksonville, Texas, having a detention period of 1 hr., and a length to width ratio of 1.5. This tank is consistently obtaining a removal of 90 per cent plus of 1-hr. settleable solids.

The detention period should be largely governed by the type of after treatment. Delayed detention increases the septicity of sewage and the floating sludge deposits, which are the prime cause of odors from settling tanks, and will react unfavorably with a following activated process.

The engineering profession could benefit by considering such subjects as sewage settling tank design, and all other single-unit designs, as simply a case history, and not as a general method to apply in all cases. That is the attitude aimed at by the medical profession in recounting their cases. From a philosophical standpoint, no two disposal plants should be of the same design, since the factors governing the design—local physical conditions, money available, and purification requirements—vary in every case, and since only one design can correctly satisfy the given condition, all plants to be correctly designed must be different.

The writer wishes to acknowledge Mr. Capen's article as a valuable contribution, and is of the opinion that more detailed study should be made on the science of settling sewage.

H. L. Thackwell,
Consulting and Constructing Engineer.

Jacksonville, Texas,
Nov. 26, 1927.

Sir—It is evident from the foregoing letters of Messrs. Gould and Thackwell that the table of efficiency rating was not of sufficient size to prove some of the viewpoints of the writer.

Before and during the period of the tests an enormous number of analyses of all kinds were made, including, of course, numerous analyses for solids. Invariably the discrepancies from anticipated results were so noticeable that attempts to prove relative efficiencies of tanks by comparison of solid results were usually given up in disgust. For that reason the writer has always been very skeptical of solid results. This was indicated in the article by Conclusion 8. The results in the table were given for what they might be worth and, in spite of their inconsistencies, are much better than the average.

The whole situation was studied quite thoroughly at Phillipsburg, where tests of all kinds were made over a period covering several months. In this case a silk mill discharged various dyes into the sewer system a short distance above the plant several times a day. The tanks were used as settling units for the lime and electrically treated sewage from the direct-oxidation process. In spite of the extreme solubility of the dyes and the fact that they had been thoroughly dissolved for hours, the lime sludge in the tank when drawn out in a section in a huge glass pipette showed unmistakable color stratification. On more than one occasion this stratification was predicted as to exact arrangement of colors simply by keeping a record of the colors as they appeared.

There is no reason to doubt that the salt solution acts much the same as the dye. In two of the test cases an attempt was made to compare the probable volume of chlorides that should be found in the effluent. It was found that a considerable amount of salt was lost. This might cause the "negative velocity or lag" spoken of by Mr. Thackwell, but I am more inclined to accept Mr. Clifford's statement, quoted in my article, that "The forward movement of the solute does not differ appreciably from the molecules of the solvent." Certainly when the tests are all conducted on the same basis as these were, the results are all comparable. The loss of salt may be due to adherence or chemical combination of the salt to or with the settleable solids removed by the tank.

In one test that the writer knows of but did not see, a salt solution was introduced in an Imhoff tank and the percentage appearing at the outlet end was very small. It was found that the chloride content in the sludge compartment and *gas vents* had increased, thus proving that the salt had passed through the slots. Furthermore, tests with dye in Imhoff tanks showed exactly the same results, and the color in the *gas vents* was frequently deeper than in the tank effluent.

The objection raised by Mr. Gould to the noneffective apex volume of an Imhoff tanks is perfectly reasonable and has been repeatedly spoken of by Mr. Downes, who devised a special inlet whereby the common overflow inlet was changed to a deflecting inlet. The effect on the tank was very noticeable.

In defense of the recommended detention periods, it should be of prime importance to consider what the average conditions are under which each type of tank operates. The long period for one-story tanks seldom does any harm from the odor standpoint because such tanks are seldom followed by secondary units of the type that would cause nuisances. Many one-story tanks are allowed to accumulate solids up to 75 per cent of their volume. Certainly eight hours capacity is none too much under such conditions. It is all right to reply that such conditions should not be allowed to exist, but they are the rule rather than the exception. This is true in New Jersey in spite of the fact that the state has gone a long way to promote intelligent operation. It is interesting to note that Mr. Gould and Mr. Thackwell both mention successful cases of short detention period and a small ratio of length to width. However, the writer knows of cases in New Jersey where somewhat similar designs were unsuccessful, although it must be admitted that unintelligent operation was partly responsible.

It was not intended to convey the opinion that all tanks other than Imhoff tanks should have a detention period of eight hours. This figure was given for cases of the ordinary one-story settling tank. It is also quite obvious that the conditions of length and width called for are not met in the case of a circular tank such as the circular Imhoff or the Dorr tank. Nevertheless, it was stated that such tanks "can be made very efficient."

The criticism in regard to the case of a pipe line being very efficient but allowing no sedimentation are perfectly correct. The writer was fully aware that such criticisms could be made and had read many articles on the salt velocity methods used for determining pipe flows, particularly those of Mr. Groat, which were published in the *Transactions* of the American Society of Civil Engineers in 1914. However, a well informed engineer would never design a settling tank that operated under the conditions of a pipe line, and it has to be presupposed that the fundamental principles of design must be included before attempting an efficiency rating. An illustration exists in the case of one of the companies which installs small settling units for private houses, wherein the buildings to be served had a large number of occupants. The company applied to a body having jurisdiction for permission to install a number of small rectangular tanks in series., the effect being to create a high velocity with practically the same condition of flow as in a pipe line. The permit was denied on that basis, but, in spite of the arguments advanced, the company still insisted that series and not parallel operation was correct. That particular installation was not made, but there exist many others of identical nature, the extreme being a case of twelve such units connected in one series. These facts do not disprove the practicability of the efficiency rating, but merely show that it has to be used in conjunction with other established engineering principles.

The letter of F. E. Daniels hardly needs a reply. Mr. Daniels was at one time connected with the same Department for which the tests were made and was thoroughly familiar with the conditions that led to the investigation. It is not unreasonable to suppose that he or others may have previously expressed ideas of a similar nature, particularly since it is obvious that Mr. Clifford worked on the idea twenty years ago and his publications must have struck a responsive chord in many places in this country.

The comments included in these letters are exactly of the type that were desired and they show that not all engineers are content to follow the old beaten path. The writer wishes to thank the contributors for their comments and believes that they have contributed to the subject under consideration.

East Orange, N. J.,
Dec. 13, 1927.

Chas. H. Capen, Jr.
Consulting Engineer.

Wisconsin Engineers Ask Whether Licensing is Advantageous

Sir—The question of whether to support or oppose the Licensing of Engineers in Wisconsin is being studied by a committee of the Engineering Society of Wisconsin, of which I am chairman. The committee is open-minded and anxious to reach a sound conclusion. Our study of published discussion reveals a lack of concrete and specific evidence upon which to base judgment. The committee desires, therefore, to get in touch with anyone who has something tangible to offer. We would like especially to learn about the merits and defects of licensing from individual engineers who are working under license laws. Perhaps some of your readers will have something to offer. Here are some of the questions for which we are seeking answers:

Are there *quacks* in the engineering profession; that is, are there men who do not possess a passable knowledge of mathematics, physics, and mechanics, but who, nevertheless, psas themselves off for engineers? Does anyone know of specific cases of quackery?

Has licensing, where introduced, actually and tangibly improved conditions for either the public or the engineer?

Has licensing, where introduced, adversely affected the condition of the engineer, either by imposing an appreciable financial burden, hampering free movement from state to state, imposing a barrier to worthy young men who want to enter the profession, or in any other way?

Madison, Wisconsin,
Nov. 25, 1927.

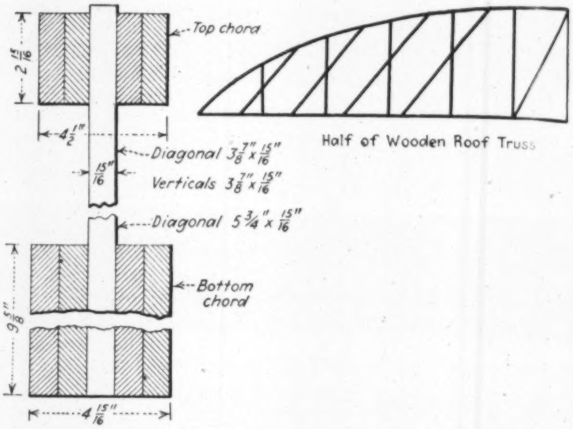
L. F. Van Hagan,
Professor of Railway Engineering,
University of Wisconsin.

Wooden Skating Rink Roof Truss Fails Under Snow Load

Sir—On November 24 in the village of Newberry, Mich., a wood frame skating rink collapsed under a snow load of 4½ inches of rain-soaked snow. The load was about 6 lb. per sq.ft. There was fortunately no loss of life since the skating season had not opened. The present size of the skating enclosure was about 60x120 ft., with the length north and south. Along the entire length of the west side was a lean-to structure divided into lockers and waiting rooms. The main structure was divided into panels by a system of trusses supported on posts. There were about 12 panels. The trusses had a curved top chord and a horizontal lower chord, as shown in the accompanying sketch. The trussing between the upper and lower chord was curious in that the diagonals while intersecting the verticals at about mid-height, did not have their center line intersect the center line of the verticals on the center lines of the top and bottom chords, but below the lower chord and above the upper chord center line. The spacing of the verticals was about 2 and 4 ft., as I recall. The bowstring span was about 59 ft., the truss depth in the center about 7.7 ft., and the height of the lower chord about 10 ft. Purlins 2 in. x 5⅝ in. spaced about 2 ft., were used, on top of which was 1-in. sheathing and a heavy felt.

The entire roof, the east side and ends of the main building, are down, apparently from a combination of the effect of the snow load and a west breeze which swayed the top eastward. The roof fell vertically almost intact, the east and south walls falling outward.

During the time the building was used for skating it often contained 200 persons more or less. It had stood two seasons, probably because of exceptional weather, and because the roof was kept clear of snow by the wind. On one or two occasions, I saw men keeping the snow from plastering itself onto the west edge during a wet snow storm.


Top chord
$2\frac{15}{16}$
$4\frac{1}{2}''$
Diagonal $3\frac{7}{8}'' \times \frac{15}{16}''$
$\frac{15}{16}''$
Verticals $3\frac{7}{8}'' \times \frac{15}{16}''$
Diagonal $5\frac{3}{4}'' \times \frac{15}{16}''$
Bottom chord
$9\frac{5}{8}''$
$4\frac{15}{16}''$
Half of Wooden Roof Truss

DETAILS OF BOWSTRING TRUSS SHOWING ARRANGEMENT OF DIAGONALS

At the time the rink was built, three years ago, I warned such persons as I thought might have influence that the building was not safe.

Newberry, Mich.,
Nov. 29, 1927.

R. R. Ryan.

Should Employer or Employee Pay Employment Agency Fees?

Sir—Among the several able articles and letters which have from time to time appeared in the columns of your journal anent the inadequacy of engineering salaries, there is one subject I have not yet seen broached, which in a way bears directly upon the salary question. I refer to the tendency among a considerable number of the engineering firms who are large employers to place whatever vacancies they may have in the hands of employment agencies. This is no doubt an excellent thing for the firms under discussion, since it relieves them of a large amount of clerical and secretarial work. But—and here's the rub—is it fair to expect the poorly paid employee to bear the cost of this service? It is, in a measure, tantamount to putting a premium upon a vacancy.

Take the case of the $200 a month man who has perhaps been unemployed for some weeks. Such a one, very often married, and with a family to support, faced with an accumulation of unpaid bills, for families must be fed even though the breadwinner is not working, obtains a position through one of the agencies, and immediately is up against the problem of paying away one-third or more of his first month's earnings. This is a condition which should not be tolerated. Since the employer is saved the extra work involved, let the employer pay.

There is also the point, of value to the employer, that when he places his vacancy in the hands of an agency he reaches only a limited proportion of those who might be qualified to fill it.

Another Struggling Engineer.

Port Colborne, Ont.,
December 20, 1927.

News of the Week

Current Events in the Civil Engineering and Contracting Fields

Toe of Cofferdam for Hudson Bridge Fails; Three Drown

Section of Sheetpiling at Deep West Tower Structure Blows In—No Serious Delay

ON Dec. 23 the toe of a short section of the steel sheetpiling of one of the Hudson River bridge pier cofferdams at Fort Lee, N. J., blew in, overwhelming three of the men at work in the cofferdam. The structure in question was the northerly of the two cofferdams in which the two pier footings for the west tower pier of the 3,500-ft. Hudson River suspension bridge are being built. Each of the two cofferdams is about 100 ft. square. The south cofferdam had previously been pumped out, cleaned down to sound rock and concreted to within about 25 ft. of the water surface. The north cofferdam was pumped out only recently, and the landward half of the rock bottom was being cleaned off preparatory to concreting, when the blow-in occurred.

Description of Cofferdams

These cofferdams are in water ranging from about 40 ft. depth at the landward edge to 65 or 70 ft. depth on the river edge, measured from water surface to rock. The rock is Triassic (Newark) sandstone, with irregular surface sloping down eastward, and was originally overlaid with rock fragments and river mud, to a water depth of 10 to 20 ft. The cofferdams were constructed by dredging the site down to a depth of about 40 ft. and then driving steel sheetpiling around a completed assemblage of bracing consisting of five or six horizontal frames with heavy steel H-beam walers along the sheeting and double 12x12 struts in both directions, spaced 15 to 20 ft. apart horizontally. The sheet pile wall of the land side and about one-fourth of the width of the upstream and downstream sides was single-wall, while the remainder of the periphery was double-wall construction, 5 or 6 ft. wide, whose cells were filled with clay except that the lower 20 ft. of the cells on the river side was filled with concrete to stiffen the cofferdam structure between the rock surface and the lower tiers of bracing. All piles were driven down hard, to penetrate the upper layers of rock where possible.

After completion of the cofferdam it was pumped down, the landward half of the rock surface was cleaned off and concreted, and then excavation completed in the wedge-shaped deeper part toward the river, and this also concreted.

After successful completion of this work in the south cofferdam, the north cofferdam, which had been making somewhat slower progress, was at the stage of cleaning off the loose and soft upper layers of rock preparatory to concreting the landward half. At the westerly end of the north wall, where the structure consists of only a single line of sheeting, the excavation of the bottom had gone down some 4 ft., inside of a berm about 5 ft. wide which was left along the foot of the cofferdam wall. The sheetpiles here were seated a foot or two in the bottom, so that the body of the excavation was two or three feet below the pile points. The lowest tier of bracing was 6 or 8 ft. above. Without warning, the lower ends of the piles in this part of the wall were forced in by the water and soil pressure outside, apparently shearing off the material of the berm and admitting a large rush of mud and water. Some of the men were able to reach the ladder to the top, but three were caught.

It is expected to drive an outer wall of sheeting at the point of the blow, filling the cells with firm material, to seal the leak before pumping out is attempted. No serious delay to the work is expected and the general plan already successful in the south cofferdam will be followed.

No Agreement Reached on Price of Colorado River Power

Conferences that were held daily in San Francisco starting Nov. 21 between members of the Colorado River commissions of the states of Arizona, Nevada and California, their state engineers, consulting electrical engineers and other advisors in an effort to determine what price Arizona and Nevada should receive from California for hydro-electric power to be generated if and when Boulder Dam is built, were terminated Dec. 17. At the close of the conference it was stated that while California had offered to pay a higher amount than its previous offer of four-tenths of a mill a kilowatt-hour made at the last Denver conference, the figures had proved unacceptable to Arizona and Nevada. The price named by California was not made public. At the Denver conference last fall one mill a kilowatt-hour had been asked by the other two states.

At Denver on Dec. 19, representatives of the four states of the upper basin of the Colorado River adopted a resolution opposing passage of any legislation proposing the construction of a dam at Boulder Canyon or any other development pending the outcome of negotiations among the three lower basin states, Arizona, California and Nevada.

Committees Offer Preliminary Data On Flood Control

Engineering Groups Meet to Advise House Committee on Control of Mississippi River

DURING the past week several engineering groups at the request of Chairman Reid of the flood control committee of the House of Representatives conferred with that committee to advise it on the subject of Mississippi River flood protection.

A committee of the American Society of Civil Engineers, appointed under a resolution of the Board of Direction passed at the Columbus meeting in October, met under the chairmanship of President John F. Stevens. The committee included J. Waldo Smith, of New York, J. W. Billingsley, of New Orleans, John F. Coleman, of New Orleans, Morris Knowles, of Pittsburgh, J. B. Galloway, of San Francisco, and D. W. Mead, of Madison.

Am. Soc. C. E. Committee

After reviewing the reports of General Jadwin and of the Mississippi River Commission, as well as the reports of the separate boards which had advised these authorities, the committee drew up a series of questions for use in the House hearings, to bring out the facts relating to various phases of the Mississippi floods and the protection systems proposed by the Chief of Engineers and the Mississippi River Commission respectively. A general report accompanying these questions recognized the great speed with which the official investigations of the last six months had to be conducted, but called attention to the unexplained differences of plan and estimate between the two proposed protective systems. It also suggested that full costs (including land, damages and incidental costs) should be compiled to enable various protective systems to be fairly compared. Immediate prosecution of mapping, the establishment of a hydraulic laboratory, and energetic prosecution of all the protective work that can now be determined upon as part of the final comprehensive plan, were recommended; but it was recommended that the surveys should be placed in the hands of the regular survey bureaus of the government, and that the laboratory be placed in the Geological Survey. Fuller study of the entire protection problem was called for as a prime essential to the adoption of a definite project.

A committee of university professors appointed by the presidents of a number of technical universities at the request of Congressman Reid also reviewed the flood control reports. This committee included Profs. B. A. Etcheverry, of the University of California, W. B. Gregory, of Tulane University, H. W. King, of the University of Michigan, Daniel W. Mead, of the University of Wisconsin, Clark E. Mickey, of the University of Nebraska, Harry Rubey, of the University of Missouri, Arthur N. Talbot, of the University of Illinois, Francis P. Witmer, of the University of Pennsylvania, and Sherman M. Woodward, of the University of Iowa.

University Professors' Report

In its report this committee pointed out the essential change of attitude toward flood control represented by the reports of the Chief of Engineers and of the commission, and suggested that the basis for this change of policy should be fully set forth. A detailed review of the project was not attempted in view of the absence of a sufficient amount of detail in the report. The committee suggested, however, that immediate action is necessary to provide at least the same degree of security as before the flood of last spring, and to carry on such other work as will fit into an ultimate plan. At the same time that this work is going on, extensive study and investigation of the entire problem are necessary, in the committee's opinion, including study of the possible magnitude of future floods and the economic degree of security to be provided. The difference of cost estimates by the Mississippi River Commission and General Jadwin was pointed out as requiring explanation, and as warranting a more precise and detailed statement of costs, including all elements of cost involved, not merely construction but also right-of-way and the like. The committee indicated that such analysis of cost and the associated studies might suggest essential modifications of the plans now proposed. The committee also questioned the advisability of building "fuse plug" levees at the heads of the floodways, and expressed the opinion that all elements of the protection system should function in definite manner. It proposed an engineering board of review for the flood projects, and outlined the essentials of a sound administrative plan, based on continuing the Mississippi River Commission in charge of the work.

Hearings by the House committee are expected to begin on Jan. 5.

Three Short Courses for Sewage-Works Operators

Three short courses for sewage plant operators will be given Jan. 16 to 27 at Rutgers University by the College of Engineering in co-operation with the New Jersey Sewage Works Association and the State Department of Health. Course I is a prerequisite to Course II and Course III is an advanced course. Details of the course may be had from Dean Edward H. Rockwell, Engineering Building, Rutgers University, New Brunswick, N. J.

Chicago Prohibits Parking

By a vote of 37 to 4 the city council of Chicago has passed an ordinance which prohibits all parking of automobiles in the loop or business district between 7 a.m. and 6:30 p.m. on week days. Taxicabs will be allowed at specified cabstands. This much-discussed plan will go into effect on Jan. 2. Some merchants objected on the score of losing trade, but a traffic survey at stores indicated that less than 2 per cent of the customers came from parked automobiles. On the other hand, it is estimated that the greater freedom of movement under the new system will not only expedite traffic but will increase patronage by automobile riders who now keep away on account of the congestion and traffic difficulties.

S.P.E.E. Announces New Widespread Investigation in Engineering Education

The Board of Investigation and Coordination and the staff of the Society for the Promotion of Engineering Education have announced that through the creation of a special fund, a parallel project to the investigation of engineering education recently conducted by the colleges will soon be undertaken. The investigation is made through the provision of $30,000 by certain educational institutions and the Carnegie Corporation. The new inquiry, as stated in the proposals which form the basis of the grant, is to be directed toward the following ends:

1. To indicate the character and the extent of the need in the United States for a type of technological education having the following general characteristics: (a) More advanced than the work of the secondary schools; (b) affording a general preparation for technical, supervisory and commercial services in industry, rather than specific training for skilled trades and occupations; (c) differing from the programs of the engineering colleges by being briefer, more intensive and more direct in method, less theoretical and more strictly technical in content and not leading to an academic degree; and (d) principally full-time and co-operative day courses, but not excluding evening and extension courses organized into extended curricula.
2. To indicate the extent and character of the present facilities for giving education of this character and to appraise their effectiveness.
3. To indicate the means by which the needs may be met more adequately.
4. To indicate how institutions giving this type of technological education and the present engineering college may supplement each other so as to create a well-balanced system of higher technical education.
5. To indicate how the public educational authorities, the professional societies of engineers and industrial bodies may aid in establishing this type of education on a stable and adequate basis.

In defining the scope of the inquiry, attention was directed primarily to a type of education, rather than a type of institution. It is recognized that the field of specific training for crafts, trades and industrial processes, not commonly classed as forms of engineering activity, is of great importance, but that it warrants separate investigation under other auspices. A certain overlap is found between that field and the area of the projected inquiry, but training for engineering activities is the end of the specific inquiry in view.

In line with the policy pursued in other investigations by the society, a special advisory committee will be constituted, representing the interests most directly affected. The project is expected to extend through the year 1928.

Report Lists Sites for Airports in New York City Area

The fact-finding committee appointed by Secretary Hoover to study and report on airport facilities for the New York area made its report Dec. 20. Six sites were recommended as follows: A 300-acre tract near Middle Village, Queens Borough; the site where the city of Newark is now building an airport; the Bronx-East River area; the Hackensack Meadows area; Jamaica Bay area; and the Wall St.-Brooklyn area, which is Governors Island.

The report was made at a luncheon held under the auspices of the Merchants Association, the meeting being presided over by William T. McCracken, assistant secretary of commerce for aeronautics, who was chairman of the committee.

Water Resources Survey Before Congress

A bill providing for complete survey of the country's water resources was introduced in Congress on Dec. 20 as House Bill 8111, by Congressman Newton. One of the immediate objects of the proposed survey is a study of flood conditions. Control of streams has been handicapped by lack of basic facts, especially with respect to the magnitude of flood discharges and the average interval of time between floods of any given magnitude. There is need for more information as to the total quantity of runoff and the times and quantities of discharge at maximum, mean and minimum stages. The same information is needed also in connection with the design, construction, operation and administration of all works for utilizing the surface waters of the country.

Under the terms of the Newton bill the Geological Survey is authorized to collect the necessary information and prepare an inventory of the nation's water resources. An appropriation of $400,000 for the current year and $500,000 in each of the following 19 years is authorized by the bill.

Attempts Continue to Get Lines Under Sunken Submarine

Attempts continue to get lines under the S-4, U. S. Navy submarine which sank on Dec. 17 when rammed by the U. S. Coast Guard cutter Paulding off Provincetown, Mass., carrying 40 officers and men to their deaths. The submarine lies on the ocean floor at a depth of about 100 ft. and in mud about 12 ft. deep. Divers using jetting hose with special head are endeavoring to tunnel underneath the hull in order that cables may be placed for raising the submarine with pontoons. Tunneling on the starboard side had been about half completed on Dec. 27 when diving was discontinued because choppy seas had dragged the anchor of the diving ship Falcon. Lieutenant-Commander Ellsberg, who successfully raised the S-51, is in direct charge of the operations on the S-4.

The S-4 was returning to its base from a trial trip after some reconditioning when rammed. The Paulding continued to its base, though badly damaged. Navy surface craft and divers were in communication with six men in the S-4 for more than three days, first by oscillating devices, and then by actual code tapping on the hull of the sunken submersible.

Unlicensed New York Engineers Face Legal Involvement

According to a letter recently sent all engineering societies in the state of New York, the attorney general will proceed against all engineers who are not duly licensed to practice or who have failed to renew their certificates as provided by Article 55 of the Education Law. Up to this time it was considered expedient to refrain from pushing the matter of legal procedure against unlicensed engineers, thereby giving them ample time to become familiar with the law and its requirements. However, inasmuch as several years have elapsed since the passage of the act, the attorney general's office has been requested by the Education Department of the state of New York to proceed against all delinquents.

Street Sanitation Officials to Meet in Detroit

The eighth conference of the International Association of Street Sanitation Officials will be held at Hotel Statler, Detroit, Mich., Jan. 9 and 10. Among the topics and speakers are: street cleaning, Elmer C. Goodwin, examining engineer, Department of Street Cleaning, New York City; final disposition of ashes and miscellaneous refuse, W. J. Galligan, Bureau of Streets, Chicago; snow removal, George W. Dies, street commissioner, Toronto, Ont.; street designs from a sanitary viewpoint, W. C. Earle, city engineer, Pasadena, Calif.; and financial possibilities of salvage; Capt. Harrington Place, engineer, Detroit Bureau of Governmental Research, Detroit, Mich.

Road Show, Convention Managers Expect 30,000 At Cleveland, Jan. 9-14

Returns received by the managers of the convention and road show at Cleveland Jan. 9-14, 1928, of the American Road Builders Association indicate that both will exceed in attendance and interest those of any previous years. About 30,000 are expected to be in attendance during some period of the exhibition and the technical meetings. The numbers of exhibits will be increased by having available some 60,000 sq.ft. more of space than was available last year.

In accounting for their expectations the convention and exhibition managers point out that the convention in Cleveland may be styled a bigger and better gathering due to three main reasons: the increased attendance by the Pan-American contingent, participation by the newly organized county highway officials, and the fact that the Cleveland auditorium affords 150,000 sq.ft. of floor space as against the 90,000 sq.ft. that were available last year.

The county highway officials were organized last June by Thomas J. Wasser who is the first president of the organization. Thursday, Jan. 12, will be County Officials' day. On this day the first national session of county highway officials ever held will convene in the Hollenden Hotel. The response to Mr. Wasser's invitations to county highway officials throughout the country to be present, indicates that all sections of the country will be represented.

Not only are the nations of South and Central America taking a more active interest than ever before, but a large number of them are sending delegations to the convention accompanied by elaborate exhibits. Mexico is sending a delegation of three men with an exhibit of the Mexican National Highway System and other things of interest in that republic.

Cuba, likewise, will participate in a similar manner. Other nations will send official representatives and in addition will participate in the presentation of foreign exhibits for the inspection of all American road builders.

Chicago Gets Traffic Commission

Following the recommendations of a city traffic report made last year and noted in *Engineering News-Record*, Feb. 3, 1927, p. 193, the Greater Chicago Street Traffic Commission has been organized by representatives of the city, county and park boards. The personnel of the commission is: President, R. W. Wolfe, commissioner of public works; vice-president, James Simpson, president of Chicago Plan Commission; secretary, Leslie J. Sorenson, city traffic engineer. Committees have been appointed to prepare uniform systems of traffic signals and traffic regulations, while a committee of police officers will arrange for uniform enforcement of the regulations.

Everglades Tax Law Is Declared Void

Circuit Court Judge Love, of Florida, on Dec. 14 declared unconstitutional the new state tax law passed last spring to place the Everglades drainage work on a stronger financial basis. The law authorized the levy of an *ad valorem* tax on land in the district, in addition to benefit assessments as heretofore. This provision was made to meet the views of bond buyers that more security should be placed behind Everglades drainage bonds in order to bring down interest and enable larger issues to be sold.

After the passage of the law, property owners in the Everglades assessment district sued, claiming that their lands, being not marshy or subject to benefit by Everglades drainage, could not lawfully be taxed on its value. The present decision upholds this view. The state plans to appeal.

Everglades work has been conducted only on a small scale during the past year, pending a decision on the validity of the tax law.

Pittsburgh Gasholder Explosion Found Accidental

On Dec. 21 a coroner's jury verdict on the explosion of the 5,000,000-ft. gasholder in Pittsburgh on Nov. 14 found that the explosion was accidental, and resulted from leakage of the valves which separated the holder from the supply mains. The verdict recommended, however, that authoritative general safety rules for conducting repair work on gasholders be drawn up.

The holder belonged to the Equitable Gas Company, a subsidiary of the Byllesby Company, of Chicago, and served for storage of natural gas. It had been in process of repair for several weeks before the accident, the Riter-Conley Company doing the repair work in conjunction with forces of the gas company. Two valved pipes connected the holder to a system of mains; the valves in these pipes were closed, but the pipes were not disconnected during the repair work. After the explosion the valves were tested and one was found to leak slightly although no evidence of gas had been found in or about the holder before the morning of the explosion.

At the time of the explosion the holder bell had been raised partway by blowing in air, a total of about 650,000 cu.ft. From the gas leakage measured after the explosion, it was estimated that about 40,000 cu.ft. of gas entered the holder. Ignition was brought about by a welding torch which was being used on the outside of the holder bell.

Railway in Texas Oil Field

The Texas-New Mexico Railway Company has been authorized to build a new railroad line from Monahans in Ward County, Texas, through Kermit and Winkler Counties to the Texas-New Mexico boundary line, a distance of approximately 35 miles.

Personal Notes

J. G. Tripp, until recently engineer of construction on the Lake Pleasant Dam, has taken charge of the construction work on the Coolidge Dam for Atkinson Kier Bros. Spicer Company, the general contractors. Mr. Tripp is a graduate of the Massachusetts Institute of Technology and has had varied experiences on dam construction, having been employed on the Little Rock Dam at Palmdale, Calif., and the Emigrant Creek Dam at Ashland, Oregon.

F. C. Hart, until recently assistant project engineer for the Missouri Highway Department, has been appointed resident engineer on bridge construction by the Arkansas State Highway Department.

Harold A. Thomas, professor of hydraulics in the Department of Civil Engineering at Carnegie Institute of Technology, has been appointed hydraulic engineer for the city of Pittsburgh. His appointment was made by the Department of Public Works. His work will be concerned with studies of flood heights relative to a relocation of boulevards along the rivers, and other construction changes recommended by the City Plan Commission.

Dr. H. N. Bundesen, until recently health commissioner of Chicago, has been appointed director of health of the Sanitary District of Chicago.

James E. Henderson, until recently assistant engineer in the construction department of the Florida East Coast Railway Company, has resigned to accept a residency with the Arkansas State Highway Department. Mr. Henderson was employed on double-track work of the Florida East Coast. For five years prior to his going to Florida, he was connected with the South Carolina State Highway Department.

C. E. Douglas has resigned as city manager of Dubuque, Iowa, his resignation to be effective Feb. 1, 1928. Mr. Douglas was formerly city manager of Newport News, Va., and succeeded O. E. Carr, who is now city manager of Fort Worth, Texas.

Harold E. Wessman, until recently structural designer with Waddell & Hardesty, consulting engineers of New York, has accepted an appointment in the Department of Civil Engineering at the University of Illinois. Mr. Wessman is a graduate of that university.

H. W. Fenno, who has been division engineer at Chicago for the New York Central R.R., has been appointed engineer of maintenance-of-way with headquarters in Cleveland, Ohio, succeeding Charles Yoder, who died recently.

G. Tornes has been appointed general supervisor of buildings in the engineering department of the Chicago, Milwaukee & St. Paul Ry., succeeding the late N. H. La Fountain.

Engineering Societies

Calendar

Annual Meetings

INTERNATIONAL ASSOCIATION OF STREET SANITATION OFFICIALS, Chicago, Ill.; Annual Conference, Detroit, Mich., Jan. 9-10, 1928.

AMERICAN ROAD BUILDERS ASSOCIATION, Washington, D. C.; Annual Convention, Cleveland, Ohio, Jan. 9-14, 1928.

AMERICAN SOCIETY OF CIVIL ENGINEERS, New York City; Annual Meeting, New York City, Jan. 18-20, 1928.

ASSOCIATED GENERAL CONTRACTORS, Washington, D. C.; Annual Convention, West Baden, Ind., Jan. 23-27, 1928.

NATIONAL ASSOCIATION OF BUILDERS' EXCHANGES, Washington, D. C.; Annual meeting, Miami, Fla., Feb. 6-9, 1928.

ENGINEERING INSTITUTE OF CANADA, Montreal; Annual Meeting, Monday, Feb. 14-16, 1928.

AMERICAN CONCRETE INSTITUTE, Detroit, Mich.; Annual Convention, Philadelphia, Feb. 28, 29 and March 1, 1928.

AMERICAN RAILWAY ENGINEERING ASSOCIATION, Chicago, Ill.; Annual Convention, Chicago, March 6-8.

The International Association of Street Sanitation Officials has a long program of subjects for general discussion at the annual convention at Detroit, Mich., Jan. 9 and 10. The list is as follows: Street cleaning, E. C. Goodwin, New York, and W. J. Walsh, Minneapolis, Minn. Sewer maintenance and catch basin cleaning, E. E. Paffrath, St. Louis, Mo. Destroying and cutting weeds, A. B. Cook, Charlotte, N. C. Disposal of ashes and refuse, W. J. Galligan, Chicago. Snow removal, Geo. W. Dies, Toronto, Canada. Rubbish and ash collection, M. S. Murray, Kansas City, Mo. Street signs, L. W. Herzog, Albany, N. Y. Street parking in relation to street cleaning, E. A. Wood, Winnipeg, Canada. Utility excavations in streets, Robert B. Brooks, St. Louis. Street maintenance and repairs, I. M. Goss, South Bend, Ind. Cure of littering of streets and alleys, Joseph C. Powers, Atlantic City, N. J. Street design from a sanitary viewpoint, W. C. Earle, Pasadena, Calif. Training street cleaning personnel, J. P. Soderstrum, Rapid City, So. Dak. Salvage, Harrington Place, Detroit, Mich. The budget in relation to street cleaning, F. J. Altvater, Denver, Colo. In addition, there will be a report from the committee on garbage disposal. The secretary is A. M. Anderson, 10 So. La Salle St., Chicago.

The Associated Technical Societies of Detroit, at the December meeting elected officers as follows for 1928: President, Major John P. Hallihan, chief engineer, Rapid Transit Commission; vice-president, L. E. Williams; secretary (re-elected), E. L. Brandt. This association, representing fifteen local organizations, has co-operated with different city departments in preparing specifications, selecting engineers for vacancies in various city committees and commissions, and in selecting personnel and equipment for the technical departments of city educational institutions.

The District of Columbia section of the American Society of Civil Engineers, the Washington Society of Engineers and the Washington Post of the Society of American Military Engineers held a special joint meeting Dec. 17 at the U. S. Chamber of Commerce auditorium. The feature of the program was "The Mississippi River in Flood" by Major John B. Gotwals, Corps of Engineers, U. S. District Engineer at St. Louis. The talk was accompanied with both moving pictures and lantern slides illustrating rescue work, flood scenes and river conditions during the spring flood period.

The Engineering Institute of Canada will hold its next annual meeting in Montreal February 14-15.

Obituary

Lieut.-Col. Henry S. Spackman, former president of the engineering company which bore his name, and now the E. L. Conwell Co., Philadelphia, died Dec. 21 at the age of 61 years. Col. Spackman began his professional career with James W. Queen Co., Philadelphia. He was then successively employed by the Pennsylvania Railroad, on building construction for the state of Pennsylvania, by the Philadelphia Department of Public Works and by James H. Windrim as constructing engineer. In 1896 he helped organize and was a member of the firm of Lathbury & Spackman, which later became the Henry S. Spackman Engineering Co., engineers and consultants in physical and chemical analyses of structural materials. During the World War Col. Spackman was known chiefly for his work as chief of the cement section and as technical adviser to the Peace Commission.

D. W. Brunton, internationally known consulting engineer and inventor, known to the civil engineering profession principally through his work in tunneling and who had made Denver his home, died at the Mayo clinic at Rochester, Minn., Dec. 20, aged 78 years. Mr. Brunton had been in ill health several years. Mr. Brunton was born in Ayr, Ontario, June 11, 1849 and when 21 began his engineering apprenticeship under J. C. Buckley. He came to this country in 1873 and practically grew up in the mining industry of the West. With J. Vipond Davies and J. Wellington Finch Mr. Brunton was selected to locate the Moffat tunnel under James Peak in Colorado, now nearing completion.

Construction Equipment and Materials

A Section Devoted to What the Manufacturer Is Doing for the Engineer and Contractor

Concrete Road Yardage

For November the square yardage included in concrete pavement contract awards according to the Portland Cement Association was 5,102,195 for roads; 2,614,285 for streets, and 267,979 for alleys; or a total for the month of 7,984,459 sq.yd.

The accompanying table summarizes the statistics for the current year:

SQUARE YARDS OF CONCRETE PAVEMENT AWARDED DURING 1927

Month	Roads	Streets	Alleys	Total All Classes
Jan....	2,656,118	1,504,059	75,352	4,235,529
Feb	2,336,031	1,935,262	119,382	4,390,675
March.	5,134,974	3,866,102	298,667	9,299,743
April..	10,264,336	4,931,954	285,924	15,482,214
May..	8,234,755	5,601,627	397,220	14,233,602
June..	8,424,051	6,977,602	673,350	16,075,003
July....	7,298,618	4,903,789	412,721	12,615,128
Aug...	10,725,030	5,820,033	479,369	18,024,432
Sept...	6,872,398	4,365,135	343,270	11,580,803
Oct...	5,527,085	3,686,570	586,575	9,800,230
Nov....	5,102,195	2,614,285	267,979	7,984,459
Totals	72,575,591	46,206,418	4,939,809	123,721,818

Business Notes

Paradon Mfg. Co., Arlington, N. J., announces the appointment of the Pacific Water Works Supply Co., Inc., Seattle, Wash., as its representative in the Pacific northwest. The Chemical Equipment Corp., Los Angeles, Calif., has been appointed in a similar capacity for the states of California, Nevada and Arizona.

C. H. Keller, president of the **Contractors' Equipment Company**, Detroit, has for practically two years been operating an aeroplane in his travel to the plants of manufacturers whom he represents. The first year Mr. Keller, it is stated, covered between 15,000 and 20,000 miles by air, and this year will exceed this mileage. Recently Mr. Keller completed a 3,000-mile trip which took in stops at Chicago, Peoria, Cedar Rapids, Minneapolis, Oshkosh and back to Detroit.

Harnischfeger Sales Corp., Milwaukee, Wis., announces the establishment of a branch office in Cleveland, Ohio, with J. T. Conners in charge.

C. N. Thulin, vice-president, Duff Mfg. Co., Pittsburgh, has taken over the supervision of the eastern sales district in addition to the western sales district of which he has been in charge for several years. **W. G. Robb** has been appointed district manager of the New York district with headquarters in New York City. **E. E. Thulin** has been appointed district manager of the Chicago district with headquarters in Chicago. P. G. O'Hara, former vice-president in charge of the eastern district, has resigned to join the organization of the Vacuum Oil Co., New York City.

The Stuart S. Smith Co., 19th and Indiana Sts., San Francisco, Calif., has been appointed by The T. L. Smith Co. of Milwaukee as distributors of Smith mixers and pavers for the northern California and western Nevada territories.

Rollway Bearing Co., Inc., Syracuse, N. Y., announces the opening of an office in Pittsburgh, Pa., in charge of Samuel Farrell, for several years with the company at Youngstown, Ohio.

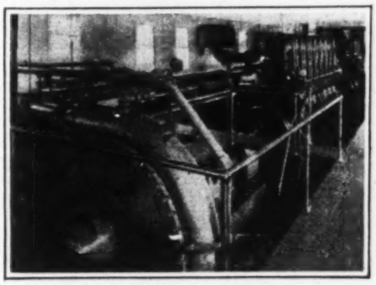
Pennsylvania Highway Department has recently placed an order for 36 trucks from the Four Wheel Drive Auto Co., Clintonville, Wis. At the present time the Pennsylvania Highway Department has approximately 89 four-wheel-drive trucks in its service.

Indiana Truck Corp., Marion, Ind., announces the appointment of Herbert H. Swiss as manager of its export department, with headquarters at the company's factory. Mr. Swiss was export manager for several years for the Republic Motor Truck Company, and served in the same capacity for the Ruggles Motor Truck Company for the past seven years.

New Developments

Diesel Dredge in Operation on New York State Barge Canal

A dredge has been added to the fleet in operation on the New York State Barge Canal powered with a solid injection diesel engine. The main unit is a four-cycle, single acting, De La Vergne vertical type, rated 500 b.hp. at 275 r.p.m. in eight cylinders, while the auxiliary unit is of three cylinders rated at 200 b.hp. at 277 r.p.m. Both engines have a 14½-in. bore and 18-in. stroke and are otherwise alike, thus greatly simplifying the matter of spare or repair parts. The speed of the main unit may be varied from the rated speed down to 90 r.p.m., through the aid of a throttle mounted on the governor column. A tachometer indicates the speed of the engine at all times.



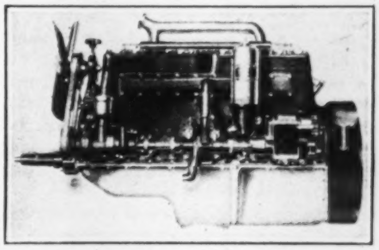
ENGINE ROOM WITH DIESEL ENGINE CONNECTED TO 15-IN. PUMP

Connected to the main unit through a heavy duty Francke flexible coupling is a 15-in. centrifugal dredge pump manufactured by the Morris Machine Co., Baldwinsville, N. Y. This unit is designed to handle 200 yd. of solids per hour when pumping to an elevation of 40 ft. through 2,400 ft. of 15-in. line.

The auxiliary engine drives a 130-kw. d.c. Westinghouse generator. Mufflers are installed in the exhaust line of each engine, while Reed air filters are used in the air inlet lines, the use of this latter equipment being found advisable as the dredge will often operate in sandy country. Engine jacket cooling water is circulated by motor-driven centrifugal pumps which take the water from the canal and pass it through the jackets after which it is run to waste overboard. Tanks, formed by bulkheads in the hull, hold approximately 32,000 gal. of fuel. The fuel system is equipped with jacketed lines and heating coils as well as duplex filters so that heavy fuel oil may be burned in the engines at any time.

New Line of Heavy-Duty Engines Designed with New Features

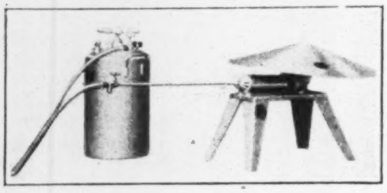
Seven bearing crankshafts, six cylinders in a single block, pump capacity of 70 g.p.m. to permit application of hot water heating systems, when used in bus service, are some of the features of the new line of heavy-duty engines put out by the Hercules Motors Corp., Canton, Ohio. This new line is known as the Y X series and is made in three sizes, all with 4¾-in. stroke, but with bores of 3¾ in., 4 in. and 4⅜ in. It is claimed by the manufacturers to be the first heavy-duty six-cylinder engine that will run continuously at high power at 1,800 r.p.m. Another new series of these engines, to be known as the W X, will shortly be put into production in which a stroke of 4¼ in. will be used with bores of 3⅜ and 3¾ in.



Careful consideration has been given in the design to accessibility and other factors making for ease of maintenance. Felt washers ordinarily used are eliminated, oil seals being provided at various joints. An oil filter of the built-in type is used. Further operating security is afforded by a hood surrounding the oil pump which is so arranged that if the screen clogs for any reason, oil can be drawn up over the edges of the hood and the supply is still continued. Alloy steel is used to a large extent for the important parts. The cylinder block is a semi-steel casting containing 1½ per cent nickel. Piston pins and valve tappets are molybdenum steel, while the valves are of the one-piece type, the exhaust being silchrome and the inlet nickel-chromium metal.

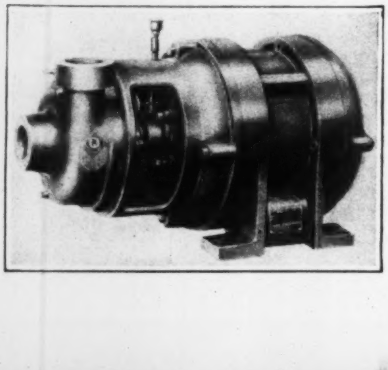
Salamander Is Operated By Light Furnace Oil

A new type salamander has recently been placed on the market by Littleford Bros., Cincinnati, Ohio, which is claimed to produce enough heat to replace from four to six salamanders of the old coke burning type. The new salamander consumes kerosene or a light furnace oil for fuel. The unit is simple to operate, being controlled entirely by a single valve adjustment. There are no smoke and no fumes to injure workmen. It is said that when used indoors the heater will not mar plastered walls. The flame is entirely contained beneath the hood so that danger from fire is eliminated. A special pan is also provided under the burner to prevent any possibility of oil dripping on the floor. A further safety feature is the arrangement of the legs so that the salamander will not upset if bumped. The new oil burning salamander is made in two sizes. Fuel consumption for the No. 1 is about one-half gallon per hour and for the No. 2 about ¾ gallons per hour.



Compact Centrifugal Pump Units Designed in Small Sizes

The centrifugal pumping sets, type SSU, recently brought out by the Allis-Chalmers Manufacturing Co., Milwaukee, Wis., are combined motor and pump units of compact, substantial design. Both the pump and motor parts are built and guaranteed by the same manufacturer. The unit is close coupled by fastening the pump impeller to one end of the extended motor shaft, the pump casing being bolted to a special integrally cast extension of one of the motor end housings. This arrangement is claimed to make the simplest possible construction and eliminates the base plate, coupling and pump bearings, at the same time assuring permanent alignment between the pump and motor.



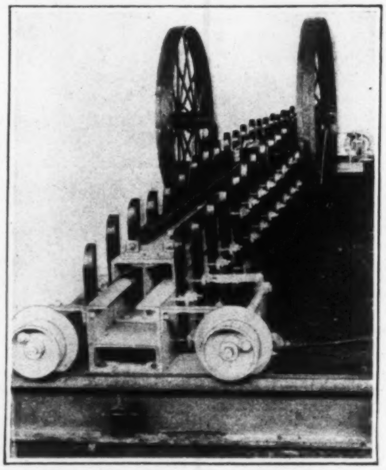
The motor bearings, which are the pump bearings as well, are of the oversize Timken tapered roller type mounted in dust and grease tight housings. The pumps are built in 1¼ in. x 1¼ in., 1½ in. x 1½ in., 2 in. x 2 in., and 2½ in. x 2½ in. sizes, and can be used with 1, 1½, 2, 3, 5 and 7½-hp. motors. The capacities handled range from 25 to 200 g.p.m. against heads of from 50 to 100 ft.

Diesel Operated Excavating Machines Announced

After experiments covering over four years, the Harnischfeger Corp. of Milwaukee, Wis., announces Diesel equipped excavators in 1 and 1¼ yd. sizes for shovels and draglines, and 1¼ and 1½ yd. sizes for rehandling clamshell service. The engines are of the full-Diesel four cylinder type and the fuel is injected mechanically. The engine may be started cold without priming or reheating. The manufacturers claim that the Diesel engine will take a sudden heavy load without slowing down as much as will a gasoline motor, and that it is this quality that makes the Diesel ideal for heavy duty work.

Subgrade Machine Operates On Road Form

There has recently been placed on the market by Ted Carr & Co., Chicago, a new subgrade machine known as a true grade scarifier. It is adapted to run on the forms and scarify the subgrade to an exact depth for highway construction. It is claimed that the machine will cut high places from the hardest subgrades, it being designed so that before any scarifier tooth can raise from the ground, it is necessary to lift half of the weight of the two-ton machine.



The frame is adjustable to different widths of road from 16 to 24 ft., and carries 47 double-end plow-steel scarifier teeth. These are so arranged that there is ample room for earth to pass between them, while at the same time they come in a new path on the return trip so that they have scarified the ground every three inches. Wheels aided by lift springs are provided at the center to enable the operator to raise the machine preparatory to turning it around or taking it from the forms.

Manufacturers and Trade Associations

Calendar

Annual Meetings

NATIONAL SAND AND GRAVEL ASSOCIATION, Washington, D. C.; Annual Convention, Detroit, Jan. 4-6, 1928.

ASSOCIATED EQUIPMENT DISTRIBUTORS, Milwaukee; Annual meeting, Cleveland, Jan. 6-7, 1928.

AMERICAN ROAD BUILDERS ASSOCIATION, Washington, D. C.; Annual Convention, Cleveland, Ohio, Jan. 9-14, 1928.

NATIONAL CRUSHED STONE ASSOCIATION, Washington, D. C.; Annual Convention, West Baden, Ind., Jan. 16-19, 1928.

NATIONAL PAVING BRICK MANUFACTURERS ASSN., Chicago; Annual meeting, Chicago, Jan. 25-26, 1928.

New Publications

Road Rollers—ERIE MACHINE SHOPS, Erie, Pa., has published a pamphlet describing its new gasoline operated tandem road rollers. The pamphlet, besides giving a number of illustrations of the machine in various circumstances of operation, includes detailed specifications of the roller and its operating mechanism.

Uses for Inks—CHAS. M. HIGGINS & Co., Brooklyn, N. Y., has prepared a 20-p. book entitled "Techniques," giving a number of outstanding artistic treatments of present-day illustrations produced by means of Higgins' drawing inks, both black and in colors. The works of a number of important artists and illustrators are included. The booklet has been prepared primarily as an aid to the architect, draftsman and architectural student, showing what can be accomplished by use of the company's inks.

Asphalt Plant—F. D. CUMMER & SONS Co., Cleveland, Ohio, has published a 23-page booklet, describing its stationary and portable asphalt plants. The booklet is really a list of specifications for each type of plant accompanied by illustrations, both of the complete units, and of the special parts.

Business Side of Construction

Facts and Events that Affect Cost and Volume

Publicly Owned Construction Projects Other Than Buildings Gained In 1927

Upward Movement Started In Spring of Current Year—Waterworks Alone Failed to Show Increase in Total Contract Value

THE total public contract awards for construction other than buildings during 1927, including November, amounted to $939,183,000 an increase of 16 per cent over the same period of 1926, according to statistics compiled by *Engineering News-Record*. The cumulated monthly totals through March of this year were slightly under last year, but beginning with April awards, 1927 has remained above the cumulated 1926 figures. Each month of 1927 has exceeded the corresponding month of 1926 except January, February, and July. June, 1927, was far ahead of June, 1926, about 60 per cent, while July of this year was only 30 per cent less than last year.

Of all awards, both public and private, 60 per cent has been for buildings during the eleven months of 1927. Only about 20 per cent of all public expenditures for construction is for buildings. The 80 per cent of non-building public contracts include waterworks, sewers, streets and roads, the majority of bridges and excavation and drainage projects, all Federal Government work and part of the general unclassified construction awards.

Waterworks awards during eleven months of 1927 are slightly less than last year but cumulated monthly totals showed this year to be in the lead at the end of March, June, and August.

Bridge contracts have exceeded 1926 since the fifth month by a conspicuous amount. Eleven months' total is about 65 per cent higher than the same period last year.

Construction of sewers has also gone ahead in larger volume than last year except for the first two months of the year. The total increase has been approximately 15 per cent over 1926 figures to December 1.

Cumulated totals of contracts for excavation and drainage work stands about 48 per cent higher than last year and in June, 1927, the totals were 150 per cent larger than during the first half of 1926.

Streets and roads have been contracted for in about the same amount each month as in 1926 and the eleven months' total for 1927 exceeds last year by only about 6 per cent.

Federal Government contracts are approximately at the same point as last year although totals through August and September of 1926 were considerably above 1927.

Unclassified public work has been contracted for in larger volume than last year by about 74 per cent. Thus it is seen that all classes of public construction except waterworks have been undertaken in 1927 in larger volume than last year.

Minimum in each class is described at the top of the following page.

PUBLIC BUILDING CONTRACTS COMPARED WITH CONSTRUCTION OTHER THAN BUILDINGS

(000 Omitted In Value)

1927	Public Contracts Excluding Building	Per Cent of Total Contracts	Public Building	Per Cent of All Public Contracts
January	$41,865	23	$22,574	35
February	29,775	17	13,374	31
March	84,093	31	13,490	14
April	84,031	34	18,274	18
May	110,666	39	16,184	13
June	145,335	41	24,469	14
July	68,825	29	20,483	23
August	97,069	34	29,816	24
September	124,918	39	19,095	13
October	97,009	39	18,700	16
November	55,597	22	16,073	22
	$939,183	32	$212,532	20
1926				
January	$50,698	26	$14,123	22
February	44,627	25	12,396	22
March	61,641	27	16,492	21
April	79,571	28	21,835	22
May	77,774	32	21,358	21
June	90,683	38	18,513	17
July	98,730	33	22,186	18
August	91,065	37	17,582	16
September	94,142	34	19,434	17
October	70,496	30	12,864	16
November	48,295	23	10,763	18
	$807,722	30	$187,54[illegible]	19

Work In Foreign Fields During the Last Half of 1927

THE following tabulation of important construction projects awarded to American contracting firms, during the last six months of the current year, was compiled from items which appeared from time to time in the Construction News section of *Engineering News-Record*. The majority of the foreign jobs let during the half-yearly period were awarded by the Navy Department. The Lake Tsana dam ($20,000,000) awarded by the Abyssinian Government, was by far the most outstanding foreign project of the year. Canadian contracts are not included in the accompanying table. Totals for the Dominion, however, appear regularly, by classes, in the first issue of each month.

FOREIGN CONTRACTS AWARDED DURING THE LAST HALF OF 1927

Project	Date of Issue *E.N-R.*	Location	Owner	Contractor	Value
Barracks	July 7	Guantanamo, Cuba	Bureau of Yards and Docks, Navy Dept., Washington, D. C.	Donnell-Zane Co., New York, N. Y.	$13,828
Gasoline tank	Sept. 1	Guantanamo, Cuba	Bureau of Yards and Docks, Navy Dept., Washington, D. C	Austin Eng. Co., Inc., New York, N.Y.	10,200
Power plant	Sept. 8	Tokio, Japan	Nippon Elec. Co	H. K. Ferguson Co., Cleveland, O.	300,000
Hospital	Sept 22	Oahu, Hawaii	Schofield Barracks, U. S. Army	R. R. Ames, Honolulu, H. T	229,000
Tanks	Oct. 27	Aruba, Dutch West Indies	Anglo-Mexican Petroleum Co., Ltd. (Royal Dutch-Shell)	Chicago Bridge & Iron Works, Chicago, Ill	....
Chimneys	Nov. 3	Pearl Harbor, Hawaii	Bureau of Yards and Docks, Navy Dept., Washington, D. C.	Weber Chimney Co., Chicago, Ill.	15,365
Dam and highway	Nov. 17	Lake Tsana, Abyssinia, Africa; road from lake to Addis Ababa	Abyssinian Government	J. G. White Eng. Corp., New York N. Y.	20,000,000
Sugar cane mill	Nov. 17	Tarlac Province, Philippine Islands	Compania General de Tabaco de Filipinas, Barcelona, Spain	General Elec. Co., Schenectady, N.Y. and U. S. Steel Corp., New York, N.Y.	2,000,000
Factory and warehouse	Nov. 24	Yokohama, Japan	Ford Motor Co., Detroit, Mich	H. K. Ferguson Co., Cleveland, O.	1,000,000
Officers quarters	Nov. 24	Cavite, Philippine Islands	Bureau of Yards and Docks, Navy Dept., Washington, D. C	J. E. Grant, Manila, P. I	30,000
Quarters	Dec. 8	San Juan, P. R., U. S. Naval Radio Station	Bureau of Yards and Docks, Navy Dept., Washington, D. C	Benitez & Gautier, Santurce, P. R.	9,500
Barracks	Dec. 8	Pearl Harbor, Hawaii	Bureau of Yards and Docks, Navy Dept., Washington, D. C	C. A. Blume, San Francisco, Calif. R. E. Wooley, Honolulu, H. T.	444,415 108,000
Generating plant equipment	Dec. 15	Pearl Harbor, Hawaii	Bureau of Yards and Docks, Navy Dept., Washington, -. C.	Grace Bros. & Co., Honolulu, H. T.	$18,990
Refrigeration plant	Dec. 15	Pearl Harbor, Hawaii	Bureau of Yards and Docks, Navy Dept., Washington, D. C	Von Hamm-Young Co., Ltd., Honolulu, H. T	14,175

This Week's Contracts—With Comparisons

Minimum costs observed are: $15,000 for water-works and excavation, drainage, irrigation, levee, river and harbor projects; $25,000 for other public works; $40,000 for industrial and $150,000 for commercial, educational, institutional, religious and other buildings.

Week ended	Public Work	Private Work	Total U. S.
December 29, 1927.	$16,437,000	$64,165,000	$80,602,000
December 22, 1927.	23,599,000	41,777,000	65,376,000
December 30, 1926.	12,900,000	18,719,000	31,619,000
Total For Year			
1927	1,255,240,000	1,998,526,000	3,253,766,000
1926	1,089,155,000	1,764,692,000	2,853,847,000

E.N.-R. Index Numbers

On December 1, 1927

COST	VOLUME
203.90	272
Last Year 210.80	Last Year 211

The Index Numbers are published in detail and with charts in the first issue of each month. The Cost Index is given in full from 1903 through 1926, with a thorough explanation of its method of computation, and a graphic comparison with many other index numbers, in the 48-page pamphlet entitled Engineering News-Record Construction Costs.

Weekly Construction Market

	New York	Atlanta	Dallas	Chicago	Minneapolis	Denver	San Francisco	Seattle	Montreal
Steel Products									
Structural shapes, per 100 lb....	$3.34	$3.75	$4.00	$3.10	$3.35	$3.95	$3.00	$3.00	$4.00
Structural rivets, per 100 lb.....	5.00	4.00	4.75	3.60	3.85	4.64	5.75	5.25	5.50
Reinforcing bars, per 100 lb.....	3.24	2.99	2.75	2.50	2.87½	3.87½	2.95	3.00	3.57
Steel pipe, black, 2½ to 6 in., lap weld, discount from list......	48%	40%	54%	51%	48%	41%	42@53.8%	48%	.....
Cast-iron pipe, 6 in. and over, per net ton..................	38.60	36.50	52.00	34.60	40.00	52.00	48.50	53.00	48.00
Concreting Material									
Cement, without bags, per bbl. .	2.25@2.35†	2.45	2.05	2.05	2.22	2.85	2.51	2.65	1.41
Gravel, ¾ in., per cu.yd.........	1.75	.....	2.38	2.00	1.25*	1.90	1.80	1.00	1.50*
Sand, per cu.yd.	1.00	1.75	2.00	2.00	1.25†	1.00	1.40	1.00	1.25*
Crushed stone, ¾ in., per cu.yd...	1.85	.....	2.75	2.00	1.25*	2.50	1.70	1.90	2.00*†
Miscellaneous									
Fir, 3x12 to 12x12, 20 ft. and under, per M.ft. b.m.	.....	.....	.....	39.50(848)	36.75 @38.75	33.75	27.00	24.00	50@55
Pine, 3x12 to 12x12, 20 ft. and under, per M.ft. b.m.........	60@62†	34.00	56.00†	.....	.....	.....	.....	.....	.....
Lime, finishing, hydrated, ton...	22.50@24.50†	21.50	19.00	20.00†	25.50	24.00†	27.50	24.00	21.00
Lime, common, lump, per bbl ..	3.25@3.50†‡	1.25	1.82	1.50†	1.70	2.70†‡	1.70	2.80‡	10.00*
Common brick, per M	16.00@17.00†	11.50	13.50	12.00†	13.75†	8@12	13.00	14.00	20.25
Hollow building tile, 4x12x12, per block.................	.....	.068	.094	....	.072	.085	.....	.10	.10
Hollow partition tile, 4x12x12, per block..................	.0966	.068	.094	.076†	.072	.085	.108	.09	.08
Linseed oil, raw, 5 bbl. lots, per 7½-lb. gal..................	.79½	.81¾	.85	.76	.84	.85	.84	.98	.90
Common Labor									
Common labor, union, per hour.	.90⅝	.30	.....	.90	.....	.....	.50@.60	.70	.....
Common labor, non-union, hour.	.....	.25	.30@.50	.82½	.45@.60	.31¼@.50	....	.62½	.30@.35

*Ton. †Delivered to job. ‡280-lb. net. +Advance. —Decline.

DEMAND for heavy engineering construction in 1927 exceeded that of last year by at least 14 per cent, according to *Engineering News-Record* statistics, outlined in the table at the top of the page.

This year, as in 1926, public work constituted about 38 per cent of the total value of contracts let. The gain in privately owned projects was fully as heavy as that of public awards.

With wages of skilled building trades mechanics consistently above 1926 levels, materials prices have eased off sufficiently to give a general cost level that is approximately 1 per cent below the 1926 average. The *E. N.-R.* Construction Cost Index Number at the top of the page is based on 1913 as 100.

Contracts for public improvement cover water-works, sewers, bridges, streets, roads, and awards made by the Federal, state, county, or municipal authorities. Private projects consist mostly of industrial and commercial buildings, with a considerable number of hotels, apartments, educational, institutional, and religious structures. The minimum adopted in each class, as stated in the table, is necessary in order to exclude from the figures all jobs too small to be of interest to the engineer.

THIS limited price list is published weekly except in the first issue of each month and gives current prices on the principal construction materials in nine representative cities. Valuable suggestions on costs of work can be had by noting actual biddings as reported in the Construction News and Unit Prices sections following.

The first issue of each month carries complete quotations for all of the basic materials and for the rest of the important cities, also wage rates for the principal building trades and common labor. The last complete list will be found in the issue of Dec. 1, the next on Jan. 5. Explanation of prices contained in the table will appear from time to time in this section; last shown Dec. 22, 1927, p. 1026.

Price movements of the last week, sufficiently far reaching to have more than a local effect, were the increasingly upward tendencies shown by steel, other than sheets; the seasonal softening of portland cement quotations; and the slightly firmer postion of softwood lumber.

The brick price situation will improve, from the manufacturers standpoint, as seasonal curtailment in output reduces the present over-supply.

Weakness prevails in the pig iron market despite the increasing firmness of fabricated steel. Reinforcing bars, plates, and shapes hold firmly to the price of $1.80 per 100 lb., base, Pittsburgh, for carload lots or over.

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Terminal, Sacramento, Calif., San Francisco Produce & Provision Terminals, Inc., plans, $6,000,000.

Generating station, Chicago, Ill., Sanitary Dist., making plans, $6,000,000.

Sewers, St. Louis, Mo., Bd. Pub. Serv., takes bids in August or September, $3,360,000.

Warehouse and canning plant, Oakland, Calif., California Co-operative Producers, plans, $3,000,000.

Office, Newark, N. J., J. C. Eisele, Inc., having sketches made, $2,000,000.

Transmission line, Texas, West Texas Utilities Co., making plans, $2,000,000.

Sewers, Los Angeles, Calif., Los Angeles Co., made surveys, $2,000,000.

Bridge, St. Louis, Mo., takes bids in August, $1,500,000.

Hotel, St. Louis, Mo., Syndicate, making preliminary plans, $1,500,000.

Waterworks, Santa Barbara, Calif., City, plans, $1,498,000.

Theatre, Portland, Ore., Washington Theatre Enterprises, having plans prepared, $1,000,000.

Bids Desired

Club New York, N. Y., July 26, by New York Athletic Club, $4,800,000.

Apartment hotel, Chicago, Ill., Delaware Building Corp., taking bids, $1,500,000.

Bids Received

Auditorium, Cleveland, O., June 22, from Hunkin-Conkey Constr. Co., $1,749,000.

Contracts Awarded

Bank and office, New York, N. Y., Chase Nat'l. Bank, to C. T. Willis, Inc., $7,000,000.

College, Montreal, Que., Jesuit Fathers to A. Deschamps, $2,000,000.

College, Moraga, Calif., St. Marys College, to J. P. Brennen, Berkeley, $1,750,000.

Apartment, Pittsburgh, Pa., Morewood Gardens Co., to W. T. Grange Co., $1,400,000.

News of the Week

Waterworks

Proposed Work

Mass., Quincy (br. Boston)—Voted $15,000 bonds, new water service connections, etc. in various streets. Private plans.

Ga., Atlanta—W. Zode Smith, supt. Water Works Dept., soon takes bids extending and improving water system, pumping plants, power house, etc. $500,000. J. N. Eley, Atlanta Trust Bldg., engr.

Ga., Waycross—See "Sewers."

Ind., Evansville—Making surveys waterworks improvements. To exceed $15,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Ia., Ogden—Voted $15,000 bonds, new deep well, pumping equipment, etc.

Mo., Sweet Springs—City, A. Harwood, clk., will not extend water system, construct reservoir, etc., at present time. J. W. Shickles & Co., 708 New York Life Bldg., Kansas City, engrs. This corrects report in June 30 issue.

Tex., Alamo Heights—Making plans waterworks improvements. $25,000. S. F. Crecelius, 201 Torcido Dr., San Antonio, engr.

Tex., Midway—Real Estate Bd., T. E. Ackers, et al, Jacksonville, take bids after July 10, distributing system, well, pumping equipment, etc., here. $35,000. Private plans.

Tex., San Antonio—See "Unclassified."

Okla., Anadarko — Making preliminary plans extending 14,500 ft. 4- to 8-in. c.i. mains in various streets. Election soon $35,000 bonds for same. C. Riggins, Anadarko, engr.

Okla., Mangum — Making estimates waterworks extensions. To exceed $50,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Mooreland—Soon takes bids complete waterworks. $35,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, consult. engrs. Noted May 5.

Okla., Sentinel — Making preliminary plans new waterworks. $25,000. A. Winningham, city clk. Engineer not announced.

Calif., Monrovia—Voted $175,000 bonds, improving waterworks, etc. Noted Apr. 28.

Calif., Monrovia—Voted $220,000 bonds, laying pipe lines, purchasing lands, etc. H. S. Gierlich, city engr.

Calif., Santa Barbara—Making plans developing water supply, constructing tunnel through Santa Ynez Mts. and developing additional storage facilities in Santa Ynez water shed, $1,404,000, or storage reservoirs, and developing underground supply south of Santa Ynez range for emergencies and providing additional storage facilities in Santa Ynez watershed above Gibraltar Dam, $1,498,000. V. E. Trace, supt. water dept.

Calif., Santa Maria—City Trustees soon take bids 28,300 ft. 18 in. rein.-con. centrifugal (Hume process) rein.-con., electric welded steel 10 in. gauge, or Natl. lap-welded pipe. H. Neel, Jr., city engr.

Calif., Sebastopol—Voted $38,000 bonds, extending waterworks.

Calif., Shafter — Shafter Pub. Utilities Dist. plans election $300,000 bonds, drilling 2 wells and installing new mains in various streets.

Que., Huberdeau—Soon takes bids waterworks. C. C. Lersard, 33 Grande Allee, Quebec City, engr. and archt.

Ont., Thorold — Thorold Twp. plans waterworks. $90,000. W. Chipman, Mail Bldg., Toronto, engr.

Bids Desired

N. Y., New York — July 12, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Bainbridge, Bouck, Castle Hill, Croes, East Bay and Hollers Aves., etc.

Pa., Phila.—July 14, by Bureau Waterworks, Contrs. 805, 879, 884, 887, 888 and 889, also 8 in. high pressure fire service line, etc., in Sepviva St. from Susquehanna Ave. to Hagert St., Contr. 888.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

La., Roseland—July 14, by Town Council, Town Hall, W. E. Palmer, mayor, waterworks. J. W. Billingsley, Interstate Bank Bldg., New Orleans, consult. engr. Noted Apr. 14.

Ky., Louisville — See "Contracts Awarded."

Wis., Norwalk—July 12, by V. C. Wruck, village clk., 12,450 ft. 6- and 8-in. c.i. pipe, fifteen 6 and one 8 in. gate valves, 26 hydrants, approximately 2,400 ft. 4 or 8 in. supply mains; 150,000 gal. concrete underground storage reservoir, concrete springhouse and 20,000 gal. clear water basin, or alternate bids drilling well. $35,000. Druar & Milinowski, Globe Bldg., St. Paul, Minn., engrs. Noted May [illegible].

Tex., Odessa—See "Unclassified."

Okla., Carter—July 12, by G. C. Mitchell, city clk., new waterworks, incl. 26,300 lin. ft. 2- to 6-in. pipe, 2 deep well pumps, etc. $31,000. Long & Co., Colcord Bldg., Oklahoma City, engrs. Noted May 26.

B. C., Vancouver—July 12, by City Council, one hundred 6 in. hub end gate valves. C. Brackenridge, City Hall, engr.

Contracts Awarded

Mass., Newton (Ind. br. Boston)—For 2,034 lin.ft. concrete culverts, for Laundry Brook, to J. MacDonald Constr. Co., 77 Summer St., Boston, $43,670.

N. Y., Hamburg — Bd. Village Trustees, filteration plant, to A. Phelps & Son, 5150 Braden St., Detroit, Mich., $73,591. Noted Apr. 21.

N. Y., St. George — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Forest Ave., Hylan Blvd., etc., to Knight & DeMicco, Inc., 448 East Tremont Ave., New York City, $29,390. Noted June 16.

N. Y., Westfield — Bd. Water & Sewer Comrs., Easton Hall, 7,400 lin.ft. 14 in. c.i. waterpipe to United States Cast Iron Pipe & Fdry. Co., Burlington, N. J. Noted June 16.

Md., Baltimore—Bd. Awards, mains in Wagners Point and Fairfield Rd., to M. and J. B. McHugh, 5006 Wakefield Rd., for Mayor and City Council. $75,225. Noted June 9.

Va., Clarendon—Supervs. Arlington Co. constructing reservoir, to Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, $61,840.

La., Many—City Clerk, waterworks improvements, incl. well, to Layne-Louisiana Co., Lake Charles, $5,500; fire pumps and compressor, to Fairbanks-Morse Co., 1000 St. Charles St., New Orleans, $5,490; plant and pipe line, to Montgomery Constr. Co., Kaplan, $11,502; pipe, to Natl. Cast Iron Pipe Co., Santa Fe Bldg., Dallas, Tex., $14,223; tank and tower, to Pittsburgh-Des Moines Steel Co., Tuttle and Southwest 10th St., Des Moines, Ia., and valves, to Columbia Iron Wks., c/o Swanson McGraw, Inc., Balter Bldg., New Orleans, $2,151. Noted May 28.

Ky., Louisville—Louisville Water Co., 435 South 3rd St., J. J. Miller, pres., will construct 10,800 ft. 20- to 30-in. mains in western part city, by own forces. $114,000. Private plans.

Mich., Grand Haven—City, constructing filter plant, Div. A, to G. E. Tillman, Centralia, Ill., $57,653, engrs. est. $63,335; filter equipment and piping, Div. B, to Roberts Filter Mfg. Co., Darby, Pa., $24,940, engrs. est. $26,475. Noted May 26.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, system c.i. supply pipes with castings, c.i. fire hydrants, and valves, brick basins, etc., in portions South Peoria, Summerset, North Natoma, Pratt, North Francisco, North Mozart, North Sacramento, and South Karlov Aves., South Sangamon, West 93rd and West 56th Sts.

See proposal advertising on page 160

TRADE "LEADITE" MARK

Registered U. S. Pat. Office

Only 51 days between the decision to build an emergency water works plant - - *and the finished job!*

- - the speed with which Leadite jointing can be accomplished contributed to this remarkable feat.

THE line illustrated here is 26,000 ft. of 12" pipe with LEADITE joints.

Owing to the emergency which arose in the city for which the installation was made no trenching could be attempted.

The line lies throughout its entire length on the surface of the ground without any bracing except at the bends.

After completion the line was tested to 260 lbs. pump pressure.

Specify and use
LEADITE
—it saves at least 75%

It is now under constant pump working pressure of 230 lbs. For over 30 years now, LEADITE has demonstrated by test and experience that it is absolutely permanent and secure.

Leadite is self-caulking and is so simple to use that the method of using it can be taught to even the most inexperienced help in a very short time.

Added to its speed and ease of use—Leadite saves at least 75% on account of saving in material and labor.

Be sure it is
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Part of the 26,000 ft. installation, crossing an open field. Chas. E. Waddell & Co., Engineers.

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

to G. G. Anderson, Chicago; in portions Rogers, Petterson, Sauganash, North Keystone, North Karlov, North Kedvale, North Keeler, North Tripp, Kildare, Lowell, North Kostner, Granville and Glenlake Aves., to S. Ryan, 2927 West Congress St.

Ill., Galesburg—City, pumping station, Div. A, construction work, to Preister Constr. Co., Davenport, Ia., $27,880; Div. B, vitr. pipe and valves, to Roberts Filter Co., Darby, Pa., $10,980; Div. C, pumps, to Amer. Well Wks., Aurora, $10,540; and Div. D, plant equipment, to O. E. Ray, Abbington, $11,278. Grand total $60,678. Noted May 26.

Ia., Lisbon — C. R. Runkle, town clk., 75,000 gal. tank on tower, to Pittsburgh-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, $8,000; 9,000 ft. 4 in. and 1,000 ft. 6 in. c.i. pipe, 4 hydrants, 11 gate valves, etc., to P. Berg, Reinbeck, $12,000. Noted June 2.

Mo., Butler—City Clerk, 1 m.g. rein.-con. reservoir, 125 ft. diam. and 15 ft. deep, to Collins Constr. Co., Leavenworth, Kan., $15,000. Noted June 16.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, rein.-con. covers for four 275 x 600 ft. storage reservoirs at Bissells Point Waterworks Sta., and one 402 x 500 ft. at Baden Waterworks Pumping Sta., to F. A. Stiers, Garrison and Magazine Sts., $350,320 and $119,912 respectively. Engrs. est. $430,000 and $140,000 respectively. Noted June 2.

Tex., Fayetteville—Waterworks improvements, incl. 15,655 lin.ft. 2- to 8-in. c.i. pipe, 50,000 gal. tank on 100 ft. tower, 100 g.p.m. pump and motor, etc., to W. G. Davis, 509 North Texas Bldg., Dallas, $28,823. Engrs. est. $30,000. Noted Feb. 3.

Tex., Houston—Water System, incl. 50,000 gal. tank, 59,000 gal. ground storage pumps, air compressor, 3,000 ft. 8 in. and 40,000 ft. 2 in. mains, to Utilities Constr. Co., Houston, $53,000.

Tex., Lockney—Waterworks extensions, etc., to G. E. Prendergrast & Co., 2142 Ave. H Wichita Falls, approximately $25,000. Noted Mar. 17.

Tex., Perryton — Waterworks improvements, incl. 250,000 gal. concrete reservoir, to H. C. Burt, Hutchinson, Kan., approximately $9,950. Noted June 16.

Tex., South Houston — For 50,000 gal. tank, 59,000 gal. ground storage, 3,000 ft. 8 in. c.i. pipe and 40,000 ft. 2 in. pipe, to Utilities Constr. Co., Houston, $53,000. Engrs. est. $55,000.

Calif., Monterey Park—To Elliott & McKenna, Balisle, 2 m.g. concrete reservoir $20,140, grading roadway $150,380 ft. 10 in. cement pipe $228, etc. Noted June 2.

Sewers

Proposed Work

Mass., Revere—Plans sewers, etc. in various streets. $26,950 appropriated. Private plans.

Ky., Southgate—Plans 15,000 ft. sewers in various streets. $80,000. E. E. Nepper, 128 Walnut St., engr.

O., Alliance—Making plans sewage disposal plant. G. B. Gascoigne, Leader Bldg., Cleveland, engr.

O., Oxford—Making plans approximately 4 mi. 10, 15 and 20 in. vitr. sewer in section village South of High St. and between Oak and College Aves. $50,000.

Mich., East Lansing—Made plans 7,400 ft. 24 and 30 in. rein.-con. interceptor and sewage treatment works. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs. $100,000.

Mich., Grosse Pointe Farms (mail Grosse Pointe)—Making preliminary plans trunk sewer and 24 and 48 in. sanitary collector, also temporary pumping station. $425,000 bond election soon for same. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Mich., New Boston—Wayne Co. (Detroit), G. A. Dingman, drain comr., making preliminary plans approximately 7,500 ft., 30 and 42 in. rein.-con. drain and concrete tank, here. $100,000. F. W. Little, Wyandotte, engr. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, consult. engrs.

Ill., Belleville—Made plans intercepting sewers in various streets. $100,000. Pearce, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs.

Ill., Brookport—Making plans new sewerage system. $25,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Ill., Edwardsville—Takes bids about Aug. 15, 12,345 ft. 10- to 18-in. vitr. clay sewers, 536 ft. 12 and 14 in. c.i. pipe, 35 manholes, 2 septic tanks, 48 ft. diam. and 31 ft. deep, etc., also 6,500 cu.yd. grading various streets. $52,464. Sheppard & Morgan, Edwardsville Bank Bldg., engrs. Noted Apr. 21.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, takes bids in August or September, constructing section River Des Peres Sewer Project, incl. two 29 x 25 ft. adjacent rein.-con. horseshoe pipes in covered ditch, and short connection with Union Blvd. Sewer; later takes bids 1 mi. section same sewer, incl. 29 x 25 ft. rein.-con. horseshoe through Forest Park between Union and Skinker Blvds.; also plans 1 mi. section same sewer replacing River Des Peres Project between Skinker Blvd. and city limits. $3,360,000. W. W. Horner, 300 City Hall, engr.

Tex., Amarillo — Making plans sewage disposal plant. $300,000. H. B. Jones, Amarillo, engr. Noted June 16.

Tex., Ft. Worth—City, c/o O. E. Carr, mgr., making surveys, etc., enlarging disposal plant from 8 m.g. to 20 m.g. capacity. $50,000. D. L. Lewis, city engr.

Tex., Midway—Real Estate Bd. T. E. Ackers, et al, Jacksonville, take bids after July 10, sewers in various streets, here. $40,000. Private plans.

Okla., Ada—Soon takes bids sewage disposal plant. $50,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted May 5.

Okla., Mooreland—Soon takes bids complete sewerage system and disposal plant. $40,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, consult. engrs.

Calif., Los Angeles—Los Angeles Co. made surveys storm drain to serve Pasadena, South Pasadena, Alhambra, etc. $2,000,000 or more.

Calif., Ukiah—Voted bonds to exceed $25,000, extending sewerage system. Noted July 15.

Ont., Grimsby—Making plans sewers in down town district. $100,000. F. A. Dallyn, 71 King St. W., Toronto, engr.

Bids Desired

Mass., Lakeville—July 11, by Commissioner Pub. Health, 5,500 ft. 10 in. pipe, manholes and connections to buildings and existing sewers and rein.-con. dosing tank, 14 x 20 x 5½ ft. with wooden building over it, 6 sand filters each 80 ft. square with embankments and under drains, 1,100 ft. ditch, installing gates, valves, and appurtenances, etc., at sewerage disposal works Lakeville Sanatorium, for Commonwealth of Massachusetts.

R. I., East Providence—July 18, by Com. on Sewage Disposal of Town East Providence, Town Hall, sewage disposal plant. City Wastes Disposal Co., 45 7th Ave., New York City, engrs.; adv. E. N.-R. July 7.

N. Y., Long Island City—July 11, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Queens Blvd., Hicks Pl., Middleburgh, Potter, 45th, 114th, Sayres, and Brinkerhoff Aves., Stone, 74th, 76th and 2nd Sts., etc.

N. Y., New York—July 12, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Esplanade (east side), East 149th St., Revere, Waring, Arnow, Colden, Tenbroeck and Astor Aves.

N. Y., Syracuse—July 11, by Bd. Contr. & Supply, City Hall, sanitary sewer in Atkinson, Euclid Sts., etc. N. F. Pitts, Jr., City Hall, engr.

Ky., Southgate (mail Newport)—July 14, by City Clerk, City Hall, 22,700 ft. 6- to 10-in. sanitary sewers in various streets. $80,000. E. E. Nepper, 128 Walnut St., engr.

O., Garfield Heights (br. Cleveland)—July 8, by Village, sewer in portions Sects. 1, 6, 7, 9, 4, 3 and 10. To exceed $50,000. R. Munz, Town Hall, Cleveland, engr.

Mich., Grand Rapids—July 13, by F. H. Locke, City Hall, 8,200 ft. 42- to 72-in. vitr. crock, and concrete or brick sewers, etc., in North End Sewer System, A-23, Comstock Slight Blvd.

Tex., McLean—July 20, by W. E. Bogan, city clk., 46,700 ft. 6- to 15-in. vitr. clay pipe and disposal plant. Hasie & Rady, Clarendon, civil engrs. Noted Mar. 24.

Tex., Odessa—See "Unclassified."

Wash., Camas—July 15, by City Comn., 3 mi. 6 to 18 in. and outfall sewer in various streets. $50,000. Stevens & Coon, Spalding Bldg., Portland, Ore., engrs.

Contracts Awarded

N. Y., Brooklyn—J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewer in Bay 10th St., to Murphy Richmond, Inc., 50 Court St., $11,733; in Linden Blvd., to Delmel Constr. Co., 7624 15th Ave., $9,470; and in East 3rd St., to Paulsen Constr. Co., 9303 Sutphin Blvd., Jamaica, $35,883. Grand total, $57,086. Noted June 9.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewer in Ramsey St., to J. Gallo, 169-10 State St., Flushing, $41,258; Ryerson St., to E. Kelly, Jr., Flushing, $4,114; Sutphin Blvd. and Tuckerton St., to A. Paino, 9315 Union Hill, Jamaica, $339,818 and $250,351 respectively. Grand total $635,541. Noted June 16.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewer in East 234th St., to A. Spadaro, 2883 Coddington Ave., $2,368; in Timpson Pl., to F. Gabrielle, 2750 Creston Ave., $9,240; and in Cruger Ave., to A Caserts, 2442 Barnes Ave., $11,713. Grand total $23,321. Noted June 16.

Pa., Pittsburgh — For 9- to 20-in. terra cotta sewers in Fernwald Rd., Sunnyside St., Tropical and Orangewood Aves., to F. Mannella & Sons, 1507 North Lang Ave., $33,941 engrs. est. $35,000; also 54 in. brick and 72 in. brick and concrete sewers in Bates St., to M. O'Herron Co., South McKean St., $59,825.

Ga., Claxton—C. E. DeLoach, city clk., approximately 26,650 lin.ft. 8- to 15-in. sewer, etc., in various streets, to Eatman Plumbing Co., 221 Jackson St., Albany, $25,000. Engrs. est. $25,000.

Miss., Oxford—See "Streets and Roads."

O., Cleveland—For 2,450 ft. 15- to 18-in. vitr. tile sewer in Bennington Ave., to W. B. Smith, 1350 West 89th St., $11,603, 2,565 ft. 12- to 24-in. Carrington Ave., to Kassouff & Co., 2600 Althen Ave. $19,686, 1,915 ft. 12- to 18-in. Kerton Ave., and 1,860 ft. 12- to 24-in. Sprecher Ave., to Ciraci Constr. Co., 3305 Milverton Rd., Shaker Heights $8,587 and $9,236 respectively; 1,600 ft. 12- to 24-in. Wainfleet Ave., and 390 ft. 12 in. West 133rd St., to N. J. Galvin, 16311 Saranec Rd., Cleveland, $6,627 and $1,170 respectively. Grand total $56,909. Noted June 9.

Mich., Detroit—J. Reid, comr. Pub. Wks., to Detroit Drainage Constr. Co., Meyers Rd., 4,188 ft. 6½ to 3½ ft. egg shaped sewer in Grand River Arm, Sect. 2 West of Mill Rd. Sewer $94,289, 4,957 ft. 8 ft. cylinder to 28 x 42 in. egg shaped in Grand River Arm Sect. 1 West of Mill Rd. Sewer $164,924, 2,492 ft. 6 to 2½ ft. cylinder, 602 ft. 32 x 48 in. egg shaped, etc. in West Chicago Arm West of Hubbell Ave. Sewer $62,749, 4,526 ft. 7½ to 4 ft. in Schoolcraft Arm Fast of River Rouge $109,509, and 4,448 ft. 7½ ft. to 30 in. cylinder, 605 ft. 36 x 54 in. egg shaped, etc. in West Chicago Arm East of Hubbell Ave. Sewer $127,306; to P. Cappello, 9329 Kresge Bldg., 5,389 ft. 5½ ft. to 28 x 42 in. egg shaped, 1,808 ft. 12- to 24-in. crock, etc. in Fullerton Arm East and West of Hubbell Sewer, $98,455; to Black & Gargaro, Dept. Pub. Wks., 5,229 ft. 7 to 4½ ft. in Schollcraft Arm West of Mill Rd. Sewer $139,534, and 2,285 ft. 6½ to 3½ ft. cylinder in Lyndon Ave. Arm West of Mill Rd., Sewer $64,496; to T. D. Nolan, 1401 Plymouth Rd. 1,582 ft. 5 ft. cylinder in Saunders Ave. Arm $47,687, 1,032 ft. 4 ft. cylinder and 968 ft. 32 x 48 in. egg shaped in South Coolidge Arm East of Liddesdale Sewer $50,668, also 1,277 ft. 26 x 54 in. egg shaped and 2,527 ft. 4½ to 3½ ft. cylinder in Puritan Arm East and West of Hubbell Sewer $78,609; to S. A. Healy, 1007 Amer. State Bank Bldg., 4,707 ft. 7½ to 6 ft. cylinder, etc. in Six Mile Rd. Sewer Sect. 2 $123,330, and 4,903 ft. 11½ to 7½ ft. cylinder, etc. in Six Mile Rd. Sewer Sect. 1 $241,535; to J. Porth & Son, Detroit, 4,670 ft. 7½ to 4½ ft. cylinder, 416 ft. 40 x 60 in. egg shaped and 25 ft. 10½ ft. cylinder, etc., in Lasher Rd. Arm North of Six Mile Rd. Sewer $141,672; to A. Rossi, 5307 Pennsylvania Ave., 7,722 ft. 72 x 42 in. cylinder and 30 ft. 28 x 42 in. egg shaped, etc. in Puritan Arm East and West of Mill Rd. Sewer $141,082; to J. Loguer, Detroit, 884 ft. 5 ft. cylinder, 665 ft. 32 x 42 in. and 684 ft. 28 x 42 in. egg shaped, etc. in Visger Arm East and West of Liddesdale Sewer $46,399; and to City, Dept. Pub. Wks., 2,782 ft. 6 to 4½ ft. cylinder, etc. in South Coolidge Arm West of Liddesdale Sewer $100,885, and 4,259 ft. 6½ to 5 ft. and 25 ft. 9½ ft. cylinder, etc. in Cullen-Fort Arm Liddesdale Ave. Sewer $174,127. Grand total $2,007,256.

Mich., Pontiac—H. A. Maurer, city clk., constructing Imhoff tank and junction chamber addition to sewage disposal plant, to Culbertson & Kelly, 876 West Milwaukee St., Detroit, $44,145. Noted May 26.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., to Zimmermann & Zimmermann, Milwaukee, sewers in 13th Ave. $8,709, 35th St. $619, Forest Pl., 36th, 38th, 39th, Toronto and Montreal Sts., $14,616; to Wenzel & Henoch Constr. Co., 49th and State Sts. Barker St. $307, and Pennsylvania Ave. $350; to A. H. Koch, Milwaukee, Roosevelt Dr., $2,013; and to Mierswa Constr. Co., 582 20th St., 33rd Ave. $3,206. Grand total $29,820.

Mo., University (Sta. St. Louis)—Sewers in Shaftsbury Heights Dist. 63, 7,500 cu.yd.

Constr. News page 2

INDEPENDENT
Reinforced
Concrete

PIPE

for PERMANENT SEWERS

—and *Profitable* Contracts

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Sewers (Continued)

Class A, 700 cu.yd. Class B, and 100 cu.yd. Class C excav.; 542 ft. 42 and 51 in. vitr. segmental block two-ring complete; 4,856 ft. 8- to 27-in. vitr. clay and 2,280 ft. 6 and 8 in. lateral extensions to curb, etc., to Grant & Meinert, Fullerton Bldg., St. Louis $23,711; also granitoid sidewalks on Etzel Ave. between Ferguson and Pennsylvania Aves., to Fehlig & Ferrenbach, Inc., 3500 Hickory St., St. Louis, $1,858.

Calif., Gilroy—To Oakland Sewer Constr. Co., 354 Hobart St., Oakland, pipe extensions $12,842, irrigation pipe, etc. $9,265, and laying 1,454 ft. 8 in. vitr. or concrete pipe line $1,156; also to J. Currie, 1100 Peninsula Ave., Burlingame, disposal plant, etc. $28,235. Grand total $51,498. Noted June 16.

Calif., Los Angeles—City Harbor Dept., for Fish Canneries Sewer, 2,925 ft. 24- to 36-in. light rein.-con. pipe under railway tracks, etc., to J. Grabovich, Hibernian Bldg., $26,579. Noted Apr. 28.

Waste Disposal

Proposed Work

N. J., Elizabeth — Bd. Council Bureau Pub. Wks., City Hall, plans garbage incinerator. $250,000. Engineer not selected. Owner requests interested contractors to communicate with them.

Bids Desired

Ill., Lake Forest—July 22, by Mayor & City Council, at office J. F. King, city clk., alternate bids on Incinerator 1; incl. 2 unit, 10 ton capacity each, in 12 hours, brick and concrete building for same with fuel storage space, brick chimney, etc.; Incinerator 2, 2 unit 7.5 ton capacity, brick and concrete building for same and chimney built for additional 7.5 ton additional unit, coal storage space, etc.; Incinerator 3, 1 unit 20 ton capacity in 12 hours, brick and concrete building for same, coal storage space, brick chimney, etc.

Contracts Awarded

N. J., Paterson — Bd. Pub. Wks., City Hall, furnaces and flues for incinerator plant, to Hiler Eng. & Constr. Co., 122 Livingston St., Brooklyn, $108,964. Noted Apr. 20.

Bridges

Proposed Work

Ga., Augusta — State Hy. Dept., East Point, Ga., and State Hy. Dept., Columbia, S. C., making plans 3 span 1,882 ft. steel and concrete bridge over Savannah River, at Fureys Ferry, near here, Richmond Co. $250,000.

Ga., Fitzgerald—E. M. Elliott & Associates, 3628 West 64th Pl., Chicago, Ill., making preliminary surveys bridge over Okmulgee River at Lampkins Old Field Ferry, near here.

Ill., Chicago — Cook Co. Hy. Dept., County Bldg., made plans widening 3 span bridge, incl. roadway and sidewalks on each side over Des Plaines River, at Grand Ave. $40,000. G. A. Quinlan, County Bldg., engr.

Missouri—State Hy. Comn., Jefferson City, making plans two 12 ft. rein.-con. slab, one 40 and two 35 ft. rein.-con deck girder spans, etc. in Audrain Co.; one 35 ft. rein.-con. deck girder, two 6 ft. and two 20 ft. rein.-con. slab spans, etc., Bollinger Co.; 40 ft. rein.-con. deck girder span, etc., Cooper Co.; two 12 ft. and seventeen 20 ft. rein.-con. slab, two 25 ft. rein.-con. deck girder, four 70 ft., one 90 ft. and one 100 ft. steel truss spans, etc. in Chariton Co.; two 5 ft. rein.-con. slab, two 35 and four 50 ft. rein.-con. deck girder spans, etc. in Greene Co.; one 8 ft., two 12 ft., and one 16 ft. rein.-con. slab three 40 ft. and two 45 ft. rein.-con. deck girder spans, etc. in Lawrence Co.; two 12 ft. rein.-con. slab and one 80 ft. steel truss spans, etc. in Pike Co. T. H. Cutler, ch. engr.

Mo., St. Louis—Takes bids in August, steel and timber railroad approach to St. Louis Municipal Bridge, here. $1,500,000.

Tex., Lynchburg—Harris County Bridge Co., Houston, plans 3 span 630 ft. bascule bridge, here. $500,000. J. B. Strauss, 311 Sheridan Rd., Chicago, Ill., engr.

Okla., Binger—State Hy. Dept., Oklahoma City, making preliminary plans 3 span 225 ft. steel truss bridge on piers over Pond Creek, on Highway 41, Caddo Co., near here. $40,000. C. R. Mindigo, Capitol Bldg., Oklahoma City, engr.

Okla., Blackburn—Pawnee Co. (Pawnee) making preliminary plans 3 span 240 ft. steel truss bridge on concrete piers over Black Bear Creek, near here. $35,000. O. F. Sewell, Pawnee, engr.

Okla., Carter—State Hy. Dept., Oklahoma City, making preliminary plans 1 span 90 ft. steel truss bridge on piers over Elk River, on Road 41, Beckham Co., near here. $40,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Okla., Cordell—State Hy. Dept., Oklahoma City, making preliminary plans 4 span 360 ft. steel truss bridge on piers over Washita River, on Road 41, Washita Co., east of here. $50,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Calif., Riverside—City, defeated $105,000 bonds, constructing Victoria Ave. Bridge. Noted Mar. 3.

Calif., Freeport (mail Sacramento) — Sacramento Co. (Sacramento), and Yolo Co. (Woodland), making plans steel bascule type bridge over Sacramento River, here. $200,000. C. Deterding, Sacramento, surv. former and A. G. Proctor, Woodland, surv. latter counties. Noted Apr. 28.

Bids Desired

Pa., Phila. — July 11, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., superstructure for bridge, Contr. 85-1927.

Md., Hyattsville — July 12, by State Roads Comn., Baltimore, three 21 ft. span rein.-con. girder bridge with 24 ft. roadway over Northwest branch, on Ager Rd., here, Prince George Co. J. N. Mackall, chn.

Kentucky—See "Streets and Roads."

Michigan—July 13, by H. C. Fleming, resident engr., 7 Monument Sq. Bldg., Grand Rapids, F. A. Grade Separation Project 4111001, Contr. 1, three 47 ft. 7⅞ in. span rein.-con. T-Beam type, 40 ft. roadway, Kent Co., for State Hy. Dept., Lansing.

Michigan—July 20, by W. W. Lavers, resident engr., Plymouth, F. A. Grade Separation 4706001 Contr. 1, two 33 ft. and one 42 ft. span rein.-con. T Beam Type, 40 ft. roadway, Livingston Co., for State Hy. Dept., Lansing.

Ill., Quincy—July 19 (extended date), by City Clerk, bridge over Mississippi River. C. A. P. Turner Co., Builders Exch. Bldg., Minneapolis, Minn., engrs.; adv. E. N.-R. July 7. Noted June 16.

Kan., Kansas City — See "Streets and Roads."

Texas—See "Streets and Roads."

Ore., Portland—July 15, by Comrs. Multnomah Co., Court House, improving Broadway Bridge, widening west approach, redecking, constructing safety islands, also 38 ft. ramp and loading stations. $750,000. G. W. Buck, Court House, co. engr. H. H. Rode, 250½ 3rd St., bridge engr. Noted Sept. 16.

B. C., Wardner — July 11, by Minister Pub. Wks., Victoria, concrete piers and substructure for bridge over Kootenay River, here, for Provicial Govt., Victoria. $30,000. P. Philip, Dept. Pub. Wks., Victoria, engr.

Contracts Awarded

Mass., Adams—Town, Bd. Selectmen, 60 ft. plate girder bridge on concrete abutments, 50 ft. to D. S. McGrath Co., Inc., Adams.

Mass., Danvers — Comrs. Essex Co., Salem, rebuilding Waters River Bridge, rein.-con. and granite with two 20 ft. openings, here, to V. J. Grande, 100 Academy Hill Rd., Brighton, $94,000. Noted June 2.

Mass., Dorchester (br. Boston)—Metropolitan Dist. Comn., Boston, bascule span for section highway bridge, here, to Amer. Bridge Co., 120 Franklin St., Boston, $102,600.

Mass., Quincy (br. Boston)—Dept. Pub. Wks., Boston, rebuilding steel span bridge, Bates Ave., to Boston Bridge Wks., 47 Winter St., Boston. Engrs. est. $25,000.

Connecticut—State Hy. Dept., Hartford, 1 span 38 ft. rein.-con. bridge over Blackwell Brook, in Brooklyn and Canterbury, and 1 span 40 ft. concrete girder bridge over Fenton River in Mansfield, to L. Suzio Constr. Co., State and Brook Sts., Meriden, $13,904 and $20,210 respectively; also 24 ft. I-beam bridge to have rein.-con. approaches in Westport and Fairfield, to G. H. McKenzie & Sons, Bridgeport, $20,309. Grand total $54,423.

N. J., New Brunswick—Bd. Freeholders Middlesex Co., rein.-con. plate girder bridge, on Half Acre-Hoffman Station Rd., over Manalapan River, to J. F. McGovern & Son, Perth Amboy, $30,755.

Virginia — State Hy. Dept., Richmond, bridge over Lynnhaven Inlet, to J. O. Sadler, Portsmouth, $92,715, and bascule draw span over Inlet, to A. S. Fox & Co., 24 North Canal St., Dayton, O., $24,439. Noted May 19.

Alabama—See "Streets and Roads."

Alabama—State Hy. Comn., Montgomery **(e.e. means engrs. est.)**, superstructure for 3 span steel bridge over Chattahoochee River near Alaga, Houston Co., to Nashville Bridge Co., Shelby Ave., Nashville, Tenn., $55,961 e.e. $56,600; substructure for above with concrete foundation, 200 ft. approaches, etc., to Atkinson & Brown, Thomasville, Ga., $53,866, e.e. $54,200. 4 small concrete bridges on Bessemer-Tuscaloosa Highway, and repairing 2 others, Jefferson Co., to W. C. McCoy, LaFayette, $14,988 e.e. $15,200; widening bridge and constructing small highway culverts, Russellville, Franklin Co., to Badgett Constr. Co., Guin, $13,363 e.e. $15,100; also 1 span 185 ft. rein.-con. bridge over railroad crossing, Albert City, Tuscaloosa Co., to Southern Constr. Co., 615 South 11th St., Birmingham, $24,116 e.e. $25,100. Grand total $162,294. Noted June 9.

Miss., Hernando — See "Streets and Roads."

Miss., Jackson—A. J. Johnson, city clk., City Hall, rein.-con. bridge, 2,117 cu.yd. concrete, 380,000 lb. steel and 3,000 cu.yd. excav., to McGee & Wetmore, Jackson, $58,487. Noted May 26.

O., Cincinnati—C. O. Sherrill, city mgr., remodeling and strengthening 22 span 1,500 ft. viaduct, 52 ft. wide, 36 ft. roadway, on Harrison Ave., to E. M. Scully, 1431 Eastwood Ave., Columbus, $198,878. Engrs. est. $254,500. Noted May 12.

Ill., Chicago—Cook Co. Hy. Dept., County Bldg., 100 ft. concrete, bridge 54 ft. over Salt Creek, at 17th St., also paving 0.25 mi. on either side bridge, to Joliet Bridge & Constr. Co., Joliet, $50,877 and $29,919 respectively. Noted Mar. 31.

Iowa — State Hy. Comn., Ames **(B.P. means Bridge Project)**, one 70 x 20 ft., and one 50 x 20 ft. pony truss bridges on B.P. 172 and 397, Grundy Co., to Lundgren-Reis Co., 65 College St., Des Moines, $9,767; one 32 x 20 ft. and three 40 x 20 ft. I-beam bridges, one 24 x 24 ft. slab bridge, one 90 x 20 ft. pony truss bridge and 9 culverts on B.P. 202, Butler Co., to Federal Bridge Co., 1002 B. T. Bldg., Des Moines, $36,210; 26 culverts on B.P. 391, Mills Co., and 26 culverts on B.P. 388, Monroe Co., to Wilson Concrete Co., Red Oak, $17,600 and $12,380 respectively; 23 culverts on B. I. 392, Floyd Co., to Ward Constr. Co., Decorah $10,384, 11 culverts on B.P. 378, Wright Co. to Hildebrand & Kragh, Belmont $3,093, 6 culverts on B. I. 403, Keokuk Co., to Wallace Lumber Co., Sigourney, $2,245, also 24 culverts on B.P. 389, Appanoose Co., to Snyder & Johnson, Humboldt, $21,283. Grand total $112,962. Noted June 2.

Kan., Columbus—Cherokee Co., two 70 ft. steel truss, two 35 ft. deck girder and one 20 ft. slab span bridge, on U. S. Rd. 166, Federal Aid Project 299-B, to Kelley & Underwood, Grandby, Mo., $23,462. Noted June 9.

Wis., Fond du Lac—See "Streets and Roads."

Ore., Portland—Multnomah Co., Court House, 2 concrete bridges on Canyon Rd., to Lindstrom & Feigenson, Worcester Bldg., $45,810. Noted June 9.

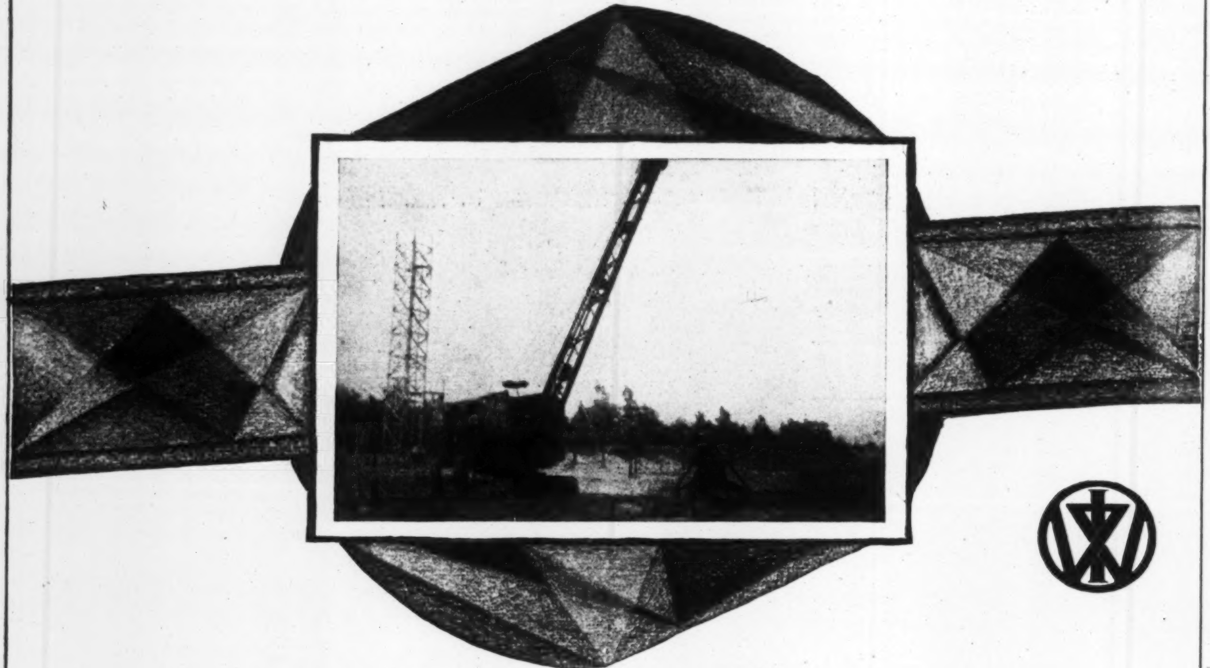
California—State Hy. Dept., Sacramento, **(e. e. means engrs. est.)**, constructing six 15 to 56 ft. span rein.-con. girder bridge across Slate Creek at La Moine, Shasta Co., to F. J. Maurer & Son, Inc., Eureka, $23,168 e. e. $23,065; eight 35 ft. span rein.-con. girder bridge across Stockton Diversion Canal, point 1½ mi. north of Stockton, San Joaquin Co., to Frederickson Bros., Stockton, $27,917 e. e. $32,254; also forty-one 40 ft. and two 16 ft. span timber bridge across Sacramento River, near Rio Vista, Sacramento Co., to L. T. Isham, Rio Vista, $54,715 e. e. $58,678. Grand total $105,800. Noted May 26 and June 2.

Ont., Paris—A. M. Jackson, engr., Court House, Brantford, 3 span 119 ft. steel bridge, 20 ft. deck and 2 sidewalks, on William St., to Sarnia Bridge Co., Sarnia, for Brant Co. $38,850. Noted June 2.

Dams

Proposed Work

Mass., East Walpole—Bird & Sons making plans concrete dam. $25,000. Monks & Johnson, 99 Chauncy St., Boston, engrs.



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Whitney Central Bldg.

St. Louis, Mo.
Railway Exchange Bldg.

New York City
50 Church St.

Railways

Proposed Work

North Carolina—Piedmont & Northern R. R., F. H. Cothran, ch. engr., Charlotte, plans completing connecting links in lines between Spartanburg, S. C. Gastonia, Charlotte and Winston-Salem, here.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

N. J., Sea Girt—Mayor and City Council plan 6 jetties on beach front. $65,000. Sincerbeaux & Moore, Asbury Trust Bldg., Asbury Park, archts.

Miss., Pascagoula — Jackson Co., voted $600,000 bonds 4 mi. rein.-con. seawall, incl. boulevard driveway from Bayou Chicot to mouth of Pascagoula River. Noted Apr. 28 under "Streets and Roads."

La., Lake Charles—Lake Charles Harbor & Terminal Comn. making plans constructing port facilities, incl. docks and warehouses, etc. $500,000 voted for same. E. Shutts, Lake Charles, engr. Noted Apr. 14.

Bids Desired

New York—July 18, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, dredging, in Hudson River, dikes, etc., in swamp area, east of New York Central R.R. tracks, and filling beach at Kingsland Point Park, etc., North Tarrytown, Contr. 96; also constructing Interlake Bridge between Reservoirs 2 and 3, of New Rochelle Water Co., on Hutchinson River Parkway, New Rochelle, town of Eastchester, Contr. 167. J. Downer, ch. engr.; adv. E. N.-R. July 7.

Minn., Hallock—July 14, by Auditor Kittson Co. excavating 411,240 cu.yd. main ditch, $41,124; part Judicial Ditch 3, leveling dump, 2 water ponds, metal culverts, etc., $8,114, for Kittson Co. (Hallock) and Marshall Co. (Warren).

Contracts Awarded

Tex., Port Arthur—Removing approximately 15,000 cu.yd. dirt north side also furnishing and placing approximately 14,000 cu.yd. shell on elevation north side Sabine Neches Canal to prevent further erosion, to W. F. Warfield Co., Beaumont, at $0.27 cu.yd. Noted June 23.

Calif., La Mesa — La Mesa Irrigation Dist., 5,500 ft. trench and backfill, to Stroud Bros. & Seabrook, 4959 34th St., San Diego, at $0.50 per lin.ft., etc.; approximately 5,500 lin.ft. 8 in. steel tubing (National), to Western Metal Supply Co., 215 7th St., San Diego, at $1.01 per lin.ft.; (Rennselaer) valves, to Water Works Supply Co., Wright-Callendar Bldg., Los Angeles, $250; 2 single stage double section 3 in. booster (American) pump connected in series to U. S. 60 hp. motor, to Hazard Tool Co., San Diego. Noted Apr. 28.

Streets and Roads

Bids Desired

Conn., Stamford—Taking bids concrete paving Courtland Ave. from railroad tracks to Glenbrook Rd., and Glenbrook Rd. from Canaan trolley tracks to city line. $25,000 or more. J. C. Williams, city engr.

N. Y., Brooklyn—July 13, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading, etc. Rockaway Parkway, Bedford Ave., East 94th, West 12th and West 10th Sts., etc.; grading and sheet asphalt on concrete paving Farragut Rd., Avenue S, Clarkson and 6th Aves., East 8th, East 52nd and 45th Sts., etc.

N. Y., New York—July 12, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading, curbing, etc. East 157th St. and Burr Ave.; grading and sheet aspha't on concrete paving Taylor and Colden Aves.; and bituminous on concrete paving Archer St.

N. Y., New York—July 13, by J. Miller, pres. Manhattan Boro, Municipal Bldg., sheet asphalt on concrete repaving Washington Pl. from Washington Sq. East to B'way.

N. Y., St. George — July 13, by J. A. Lynch, pres. Richmond Boro, Boro Hall, granite block repaving Richmond Terrace and bituminous on concrete paving Forest Ave.

New Jersey — July 18, by State Hy. Comn., Trenton, grading and rein.-con. paving 24,783 sq.yd. Route 5, Sect. 20, Morristown-Convent Station Rd., Morris Co. A. L. Grover, ch. clk.; adv. E. N.-R. July 7.

N. J., Somerville—July 22, Bd. Freeholders Somerset Co., 8 in. concrete paving 2 mi. East on Ave. Turnpike, 20 ft. O. Smith, Peapack, engr.

N. J., Teaneck (mail West Englewood)—July 12, by Twp. Com., Municipal Bldg., grading, curbing, sewers and 6 in. rein.-con. paving Washington Pl., Linden Ave. and Short St. A. Noack, 235 Main St., Hackensack, engr.

Pa., McKees Rocks—July 11, by Boro Council, grading and paving 1st and 2nd Sts., Penn, Eber, Herbst and Frank Alleys. $25,000.

Maryland — July 12 by State Roads Comn. Baltimore, concrete paving 1.5 mi. Contr. W-49 Washington Co., 1.33 mi. Contr. D-46, and 0.13 mi. Contr. D-2-A, both Dorchester Co., 1 mi. Contr. S-24, Somerset Co.; sheet asphalt paving 0.4 mi. Contr. Bc-70, Baltimore Co.; graveling 1.1 mi. Contr. P-74, Prince George Co.; macadam resurfacing Contr. H-46, Harford Co.; and concrete shoulders on 0.5 mi. Wo-5-D, Worcester Co. J. N. Mackall, chn.

Md., Baltimore—July 13, by Bd. Awards, sheet asphalt paving 12,560 sq.yd. streets listed Contr. 415; concrete paving 18,550 sq.yd. streets listed Contr. 414; and concrete footways listed Footway Contr. 103. S. Purcell, City Hall, highways engr.

Md., Hyattsville—July 11, by H. T. Willis, Mayor and Common Council, curbing, sidewalks and concrete paving 10.635 sq. yd. McCreary St. and Oakwood Rd.

Virginia—July 21, by State Hy. Dept., Richmond, improving Projects S-111-D, S-278-E and F, S-391, S-430-B, S-436-B, F-458-C, F-468-C, S-489, S-497 and S-504. C. S. Mullen, ch. engr.; adv. E. N.-R. July 7.

Fla., Daytona Beach—July 15, by W. A. Richards, city mgr., improving various streets, 5,117 lin.ft. combined curbing and guttering, 26,058 sq.ft. concrete sidewalk, 14,070 sq.yd. each concrete paving and wearing surface, and 3,928 ft. 15- to 27-in. storm sewer, etc. C. N. Teaff, city engr.

Miss., Carrollton — July 15, by Bd. Supervs. Carroll Co., improving 14.437 mi. Federal Aid Project 46-A, 61,515 cu.yd. excav., 91,634 cu.yd. borrow, 810 ft. 18 in. culvert pipe, 93,755 lb. reinforcing, 44 ft. concrete hand rail, 1,080 ft. foundation, and 7,264 ft. creosoted piling, 164,346 ft. creosoted and 5,544 ft. untreated lumber, etc. H. C. Dietzer, Jackson, engr.

Kentucky—July 29, by State Hy. Dept., Frankfort, **(S. P. means State Project)**, surfacing 2 mi. Danville-Lancaster Rd., S. P. 96-B, and 1.8 mi. Danville-Shakertown Rd., S. P. 168-A, Boyle Co., 3.3 mi. Leitchfield-Elizabethtown Rd., S. P. 12-C, and 4 mi. Leitchfield-Owensboro Rd., S. P. 12-D Grayson Co., 4.2 mi. Magoffin-Johnson Co. Rd., S. P. 34-D Magoffin and Johnson Counties, 6 mi. Mayslick-Wedonia Rd., S. P. 173-A, and 11 mi. Washington-Sardis Rd. S. P. 172-A Mason Co., 6.2 mi. Carlisle-Cynthiana Rd., S. P. 58¾-A Nicholas Co., 12.9 mi. Jamestown-Liberty Rd., S. P. 23-C Russell Co., and 8.2 mi. Williamsburg-Jellico Rd., S. P. 35-D Whitley Co.; grading, etc., 13.3 mi. Frankfort-New Castle Rd., S. P. 64½-A Franklin Co., 4.8 mi. Warsaw-Florence Rd., S. P. 12-A Gallatin Co., and 4.8 mi. Bowling Green-Morgantown Rd., S. P. 11-C Warren Co.; delivering crushed stone dumped on 9.8 mi. Glasgow-Hodgenville Rd., S. P. 3-C, and on 10 mi. same road Sect. D, Hart Co.; also twenty 30 ft. approach span rein.-con. deck girder bridge with rein.-con. pile trestles and repair work on 2 existing piers, also 122 ft. steel superstructure bridge over Mayfield Creek, on Bardwell-Wickliff Rd., Federal Aid Project 131-H, Ballard and Carlisle Counties. E. N. Todd, highway engr.

O., Jackson—July 18, by R. W. Jenkins, clk. Jackson Co., grading and native silica gravel paving 0.11 mi. Green Law Rd. and Oak Hill-Centerville Rd., in Jackson and Madison Twps. $27,000.

Michigan — July 14, by G. W. Greene, resident engr., Alpena, concrete paving 5.171 mi. E. A. 123 C-1 FO16-13 Contr. 2, Cheboygan Co., 20 ft., for State Hy. Dept., Lansing.

Ill., Niles Center—July 11, by Village, rein.-con. paving portions Main St., Oakton, Cicero, Kenton and Gable Aves. $249,000. Conseer, Older & Quinlan, 104 South Dearborn St., Chicago, engrs.

Wisconsin—July 15, by State Hy. Comn., Madison, grading, concrete paving, etc. 61,855 sq.yd. Federal Aid Project 379, Dane Co. A. L. Hambrecht, div. engr.

Wis., Dodgeville—July 13, by J. E. Wedlake, comr. Iowa Co. grading and surfacing 3.26 mi. Mineral Point-Hollandale Rd., S.T.H. 39, State Project 9201.

Ia., Danbury—July 11, by J. C. Jacobsen, town clk., concrete, sheet asphalt or vitr. brick paving 40,000 sq.yd. various streets. $75,000-$150,000. W. E. Buell & Co., 305 Davidson Bldg., Sioux City, engrs.

Ia., Onawa—July 22, by Auditor Monona Co., 7 in. concrete paving 14.08 mi. Primary Road 75. C. B. Zorn, Onawa, co. engr.

Minn. New Ulm — July 11, by Clerk Brown Co., graveling 121,545 cu.yd. various roads. C. N. Robertson, co. highway engr.

Minn., Buffalo—July 11, by E. R. Anderson, aud. Wright Co., improving Grading Jobs 2703 and 2704, and Graveling Jobs 2608, 2701, 2702 and 2705, incl. clearing, grubbing, 72,175 cu.yd. earth and 500 cu.yd. rock excav., 44,354 cu.yd. overhaul, 6,500 cu.yd. stripping, 36,600 cu.yd. screening, 29,460 cu.yd. loading, 89,944 cu.yd. hauling, 2,898 ft. 15- to 36-in. culvert pipe, etc.

Minn., Moorhead—July 11, curbing, swers and paving 11,000 sq.yd. various streets. Luckey-Miller Co., Moorhead, engrs. est. $30,000.

Minn., Shakopee—July 11, at office A. J. Mayer, aud. Scott Co., grading, etc., 60,000 cu.yd. State Aid Rd. 24, Job 2703.

Minn., Walker—July 12, at office A. A. Cater, aud. Cass Co., grading, etc., 59,407 cu.yd. S. A. R. 9, Job 2702.

Neb., Wausa—July 15, by G. A. Renard, village clk., Knox Co. (Center) and State Hy. Comn., **(F. A. P. means Federal Aid Project)**, 3 in. sand graveling, etc., 62,230 sq.yd. F. A. P. 113-A, 77,400 sq.yd. F. A. P. 113-C, and 50,000 sq.yd. F. A. P. 136-C; also concrete paving, etc., 13,054 sq.yd. or brick paving, etc., 12,669 sq.yd. F. A. P. 294-A, all Knox Co. R. L. Cochran, Lincoln, state engr. Rohrbaugh Eng. Co., 929 City Natl. Bank Bldg., Omaha, engrs.

Kan., Abilene—July 21, by Clerk Dickinson Co., grading, etc. 14.492 mi. Project 82, 28 ft. C. L. Nicholay, Abilene, engr.

Kan., Goodland—July 22, by Clerk Sherman Co., gravel surfacing 13,441 sq.yd. Federal Aid Project 363-C. F. G. Snart, Goodland, co. engr. Noted May 19.

Kan., Kansas City — July 11, Clerk Wyandotte Co., grading, bridging and paving, etc., various roads. To exceed $25,000. O. K. Williamson, Kansas City, co. engr.

Texas—July 18, by R. S. Sterling, chn. State Hy. Com., Austin, grading, bridging, etc. 4.997 mi. Highway 60, Wharton Co., $25,500, J. M. Nagle, Wharton, engr., 10.026 mi. Highway 33, Federal Aid Project 421-E, and 9.83 mi. Highway 33 between St. Francis and Panhandle, $30,000, both Carson Co., L. O. Cox, Panhandle, engr.; grading and 7 in. concrete or 2 in. bitulithic concrete on 6 in. concrete paving 0.703 mi. Highway 6, Federal Aid Project 515, Dallas Co., $60,000. R. H. Clinger, Dallas, co. engr.; rein.-con. paving 15.24 mi. Highway 1, Federal Aid Project 431-B, Unit 2, Hopkins Co., $420,000, Nagle-Witt-Rollins Eng. Co., Allen B'dg., Dallas, engrs. and 5,088 mi. Highway 90, State Aid Project 610-A, Unit 2, Grimes Co., $135,000. O. A. Seward, Jr., Navasota, engr.

Texas — July 19, by State Hy. Comn., Austin, R. S. Sterling, chn., rein.-con. paving 10.781 mi. Highway 12-A, Federal Aid Project 436-A, Webb Co., T. E. Huffman, Laredo, co. engr.; grading and bridging, etc. 18.977 mi. Highway 84, Kent Co., 26 ft., $60,500, Nagle-Witt-Rollins-Gilchrist, Allen Bldg., Dallas, engrs.

Tex., Odessa—See "Unclassified."

Okla., McAlester—July 11, by H. McDonald, city clk., grading and concrete paving 9,750 sq.yd. Dist. 46. $28,730. F. Frazer, McAlester, city clk.

Idaho — July 15, by J. D. Wood, comr. Pub. Wks., Boise, grading, etc. 2.206 mi. Sawtooth Park Highway between Challis and Salmon, Federal Aid Project 56-B, Custer Co.; also screen and crushed gravel surfacing 30,128 cu.yd. Lost River Highway, between Bingham Co. Line and Road junction 7 mi. east of Arco, Federal Aid Project 117-A. A. N. Ashline, dist. engr.

Nevada—July 13, by State Hy. Comn., Carson City, grading and graveling 10.000 cu.yd. Connors Pass Sect. Route 7, Sect. B-2, White Pine Co. S. C. Durkee, state highway engr.

Nevada — July 13, by Directors Dept. Highways, Carson City, grading, etc. 15.74 mi. Route 7, Sect. D-3, Lincoln Co. S. C. Durkee, state highway engr.

Arizona—July 18, by State Hy. Comn., Carson City, grading, surfacing, etc. 15,000 cu.yd. Globe-Safford Highway, Federal Aid Project 87-A. W. C. Lefebvre, Phoenix, engr.

Ore., Portland—See "Bridges."

California—July 18, by State Hy. Comn., Sacramento, grading 2.3 mi. road between Myers Creek and point 3 mi. west of Coyote

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Streets and Roads (Continued)

Wells, Imperial Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Calif., Hawthorne—S. V. Fraser, city clk., taking bids grading, curbing, guttering and asphaltic concrete paving, etc. portions Wilbur Ave. and 5th St., etc. To exceed $25,000. Noted June 9.

Calif., Los Angeles—July 18, by Supervs. Los Angeles Co., grading, etc., 3.21 mi. Godde Hill Rd. between Palmdale and Elizabeth Lake Rd. G. W. Jones, Hall of Records, engr.

Calif., Modesto—July 13, by C. C. Eastin, clk. Stanislaus Co., 2 in. oil macadam paving 7,865 lin.ft. Tully Rd., 16 ft. J. H. Hoskins, Modesto, co. surv.

Ont., St. Catharines—July 14, by J. E. Riffer, secy. Suburban Road Comn., concrete paving 18,000 sq.yd. Merritville Rd., Lincoln Co. $50,000. Rutherford & Ure, 24 Queens St., engrs.

Contracts Awarded

New Hampshire—State Hy. Dept., Concord, 3 in, bituminous macadam on 5 in. broken stone paving 8,000 sq.yd. Mosiluke Rd. in Plymouth, to R. E. Bull, Fitchburg, Mass., $25,965, engrs. est $32,000; and 3 in. bituminous macadam on 8 in. field stone paving New Hampshire College Rd. in East Kingston, to Robie Constr. Co., Manchester, $41,568, engrs. est. $63,000. Noted June 23.

Massachusetts—State Hy. Dept., Boston, bituminous macadam and rein.-con. paving 4,800 ft. highway in Taunton, to Greany & Sherry, Fall River, $49,486; graveling 3,000 ft. in Great Barrington, to J. F. Donahue, Worcester, $13,086; bituminous macadam paving 4,600 ft. in Weston, to Taylor Constr. Co., Milford $27,435, 3,700 ft. in Saugus, to M. McDonough, Swampscott $23,652, 9,838 ft. in West Brookfield, to Aruto Bros., Inc., New Britain, Conn. $106,550, and 2,500 ft. in Canton, to Powers Bros., Brockton, $17,664, all 18 ft. wide. Grand total $237,873. Noted June 16.

Mass., Boston—Sheet asphalt paving Quincy St., to H. F. Malley Co., 96 Tyndale St., Roslindale, $43,417; and bitulithic paving Bennett St., etc., to A. DeStefano & Sons, Inc., 288 Summer St., $36,041.

Mass., Boston—Dept. Pub. Wks., sheet asphalt and bitulithic paving various streets in Wards 17 and 29, Dorchester, to C. Capone, 11 Hemlock St., West Roxbury, $22,887. Engrs. est $25,000. Noted June 9.

Mass., Swampscott—Town, Bd. Selectmen, Town Hall, sheet asphalt resurfacing various streets, to M. McDonough Co., 620 Humphrey St. Engrs. est $25,000.

Conn., New Haven—Asphalt (by heater method) paving State St., to C. W. Blakesley & Sons, 58 Waverly St. Engrs. est. to exceed $25,000. Noted June 16.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., asphalt block repaving Steinway Ave., to J. Gallo, 169-10 State St., Flushing, $112,811; sheet asphalt on concrete paving, etc. 106th and Hinman Sts., to Highway Impvt. & Repair Corp., Furmans Island, Brooklyn, $14,690 and $26,257 respectively; grading 65th Rd., to C. H. Georgi, 15 Ely Ave. $1,521, 29th St. and curbing, etc., 123rd St., to M. J. Grant, 139 Potter Ave., Astoria, $2,919 and $341 respectively, 103rd St., to C. Kurth, 9519 126th St,, Richmond Hill, $5,386, and bulkhead, fill, etc. Beach 145th St., to J. D'Amato, Rockaway Beach, $5,861. Grand total $169,786. Noted June 16.

N. Y., New York—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to S. Nugent, Riverside Dr. and 170th St., grading, etc. Riverdale Ave., $382,576; to C. D. Beckwith, Seneca Ave. and Edgewater Rd., grading and sheet asphalt paving Nalton Ave. $37,054, to Asphalt Constr. Co., 2197 Madison Ave., River Ave. $38,188 and to Dock St. $19,123; Gaffney Constr. Co., Storey and Hermany Aves., River Ave. $27,918, Aldus St. $25,358 and Colgate Ave. $25 943. Grand total $556,151. Noted June 16.

N. J., Reaville—Hunterdon Co. (Flemington), grading and paving 3.3 mi. Three Bridges-Readville Rd., here, to Thompson & Drumm, White House, $63,928. Noted June 9 under "Three Bridges."

N. J., Collingswood (Ind. br. Camden)—Boro Council, sheet asphalt paving between trolley rails on Richey Ave., to Fish-Rutherford Contg. Co., 542 Penn St., Camden, $80,000.

Pennsylvania—State Hy. Comn., Harrisburg **(A. means Application and R. Route)**, grading, etc., 7,795 ft. R. 170, Sect. 2, Luzerne Co., to R. H. Cunningham & Sons, Turtle Creek, $239,361; rein.-con. paving, etc., 2,928 sq.yd. R. 246, A. 4339, Butler Co., to O. B. Bracht, Titusville $9,311, 5,574 sq.yd. R. 2, Montgomery and Northumberland Counties, to T. B. Evans, Danville $22,376, 4,696 sq.yd. R. 59, Sect. 6, Clearfield Co., to Avery & Bailey, Philipsburg $21,631, 2,859 sq.yd. R. 213, A. 4100-3936, Mercer Co., to Jamison & Knapp Co., Fredonia $8,177, and 6,375 sq.yd. A. 4524, Northumberland Co., to Juniata Co., Empire Bldg., Phila. $44,157. Grand total $345,013. Noted May 19.

Pa., Pittsburgh—General contract grading, curbing, paving, etc., Traymore Ave. between Sebring and Crimson Sts., and Orangewood Ave. between Sebring and Princess Sts., to Booth & Flinn, Ltd., Forbes St., engrs. est. $30,000 and $25,000 respectively; widening and paving, etc., Lincoln Ave. and repaving Bates St. between 2nd Ave. and Wilmot St., to G. S. White Co., Jenkins Arcade, $45,991 and $36,387 respectively; and repaving Bayard St. between Devonshire and Amberson Sts., to M. O'Herron Co., South McKean St., $25,147.

Md., Baltimore—Sheet asphalt paving 9,500 sq.yd. streets listed in Contr. 409, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $43,785. Noted June 23.

Virginia—State Hy. Comn., Richmond, concrete surfacing 2.5 mi. Bush River Rd., Route 10, to Leighton & Tinsley, Richmond, $111,130; and 3.96 mi. Route 13, to G. Y. Carpenter, Chester, $130,492. Noted May 19.

W. Va., Bridgeport—Grading, etc., portions Lowman, Pennsylvania and Mechanic Sts., to T. P. Keenan & Co., Clarksburg, $25,884. Noted Mar. 31.

W. Va., Morgantown—Monongalia Co., 4 mi. macadam paving State Route 7, Clay Dist., to Keeley Constr. Co., Clarksburg. $161,463.

Georgia—State Hy. Dept., East Point, plain concrete paving, etc. 42,618 sq.yd. Augusta-Fureys Ferry Rd., to W. F. Bowe, Jr., 541 Broad St., Augusta, $97,115; and concrete paving, etc. 64,804 sq.yd. Augusta-Harlem Rd., to Claussen-Lawrence Constr. Co., 1394 Gwinnett St., Augusta, $148,864, both in Richmond Co.

Ga., La Grange—J. H. Moss, city clk., concrete paving 3 streets, to A. D. Bradfield, Vernon Rd., $30,854.

Florida—State Road Dept., Tallahassee **(P. means Project)** to W. J. Bryson Paving Co., Green Cove Springs, constructing P. 55, Alachua Co. $129,345, P. 706-A, Putman Co. $75,867, P. 714, Union Co. $60,915; to L. M. Gray, Gainsville, P. 50-B $144,383, and to N. C. Cash, Kissimmee, P. 50-C, $161,843, both Putnam Co.; to C. L. Scott, Leesburg, P. 619, Alachua Co., $122,155; to Higgison Constr. Co., Monticello, P. 6, Madison Co., $43.156; to Harrison & Estes, Milton, P. 697, Escambria Co., $8,194; to Sellers Constr. Co., P. 715, Union Co. $18,866; and to Little & Lee, Orlando, P. 742, Alachua Co., $36,148. Grand total $800,872. Noted June 2.

Alabama—State Hy. Comn., Montgomery, grading and sand clay paving, etc. 11.51 mi. Troy Highway, 18 ft., to A. H. Singer, LaFayette, $88,566; also several small creosoted timber bridges on same road, to E. Pettus, Montgomery, $23,060.

Ala., Birmingham — City Comn. **(e. e. means engrs. estimate)**, cement walks on 5 blocks 32nd St., to Hening & Brogan, Amer. Trust Bldg., $4,735 e. e. $5,700; 2 in. asphalt on 5 in. concrete paving 4 blocks 25th St., Ensley, to J. Hamm, Lincoln Life Bldg., $13,024 e. e. $14,100; cement walks and 2 in. asphalt on 6 in. concrete paving 37th Ave., to W. H. Pattie, 1566 North 23rd St. $16,944 e. e. $17,300, and 2 blocks Division Ave., to Independent Paving Co., Amer. Trust Bldg. $12,514, e. e. $13,500; curbing, guttering and 2 in. asphalt on 6 in. concrete paving 5 blocks 5th Ave. N. and Georgia Rd., to H. N. Bowdry, Alabama Power Co. Bldg., $35,826 e. e. $39,100; cement walks on 3 blocks 5th Ave. S. and 53rd St., to Southern Roads Co., Pioneer Bldg., $575 e. e. $670; 2 in. asphalt on 5 in. concrete paving, etc., 1 block Princeton Ave., also walks and 2 in. asphalt on 5 in. concrete paving, etc., 1 block 16th St. S. W., to Dunn Constr. Co., Lincoln Life Bldg., $7,022 and $5,282 respectively, e. e. $8,200 and $6,220 respectively; cement walks on 5 blocks 5th Ave. and 4 blocks 5th Ave. S., to Camp & Pearson, Amer. Trust Bldg., $4,308 and $2,715 respectively, e. e. $5,100 and $3,500 respectively; grading, curbing, guttering, walks and 2 in. asphalt on 5 in. concrete paving 1 block 8th Ave., Ensley, and 2 in. asphalt on 6 in. concrete paving 1 block Court P, Ensley, to Morgan Hill Paving Co., Woodward Bldg., $6,943 and $4,595 respectively, e. e. $8,350 and $5,250 respectively. Grand total $114,483. Noted Apr. 14 and 28.

Miss., Hernando — Chauncery Clerk De Soto Co., grading, bridging, etc., 3.999 mi. Federal Aid Project 189-A, De Soto and Marshall Counties, to M. Harvey, Ripley, $52,718. Noted May 2.

Miss., Oxford—Grading, curbing, guttering, sewers, removing 14,000 sq.yd. gravel, and paving with 2½ in. asphalt on 5 in. concrete 30,000 sq.yd. various streets, to R. G. Lassister Constr. Co., Raleigh, N. C. $110,000. Noted June 2.

Miss., Oxford — Lafayette Co., grading and gravel surfacing, etc., 4 mi. road between Taylor and here, 18 ft., to J. E. Boyd, Columbia, Miss., $43,000.

Miss., Picayune—Grading, curbing and concrete paving various streets, to Merrill Constr. Co., Vicksburg. $40,000.

Kentucky—State Hy. Dept., Frankfort, grading, etc., 10.632 mi. Columbia-Burkesville Rd., State Project 51-A, Adair Co., to Mason Constr. Co., West Point, $104,422; 9.911 mi. Columbia-Burkesville Rd., State Project 51-A and C, to L. McComas, Burkesville, $109,000; and 10.125 mi. Mayfield-Bardwell Rd., State Project 1-A, Graves Co., to Bradley & Wilson, Kevil, $61,969. Grand total $275,391. Noted May 26.

O., Cincinnati — Hamilton Co., tar surfacing 37 mi. various roads, 16 ft., to Eaton Oil Wks., Sterrett St. and Louisville & Nashville R.R. tracks, Covington, Ky., $36,744. Engrs. est. $46,483. Noted June 2.

O., Cincinnati—City Manager, curbing, walks and 14,150 sq.yd. vitr. brick paving and 16,000 sq.yd. sheet asphalt paving, etc. Reading Rd. and Florence Ave., to Murdock Constr. Co., 4701 Main Ave., Norwood, $181,571. Engrs. est. $201,395. Noted May 26.

O., Cleveland—Cuyahoga Co., curbing, guttering and vitr. brick paving, etc. 4,500 sq.yd. Dille Rd., to Gould & Maybach Co., 16311 Saranec Rd., $29,093.

O., Cleveland—Grading and paving, etc., with **(a)** 1½ in. National asphalt **(b)** brick **(c)** asphalt and **(d)** concrete **(1)** 10 streets in S. H. Kleinman Allotment **(2)** Brazil and Lakeport Rds. **(3)** Crestland Ave. **(4)** Carrydale Ave. **(5)** Greenway Ave. **(6)** West 3rd St. **(7)** West 58th St. **(8)** West 114th St. **(9)** West 116th St. **(10)** West 117th St., to Ohio Natl. Pavements Co., Natl. City Bldg., **(a1)** $329,524, to H. C. Herring, Wayside Rd. **(c2)** $13,846 **(c3)** $13,608; to Highway Constr. Co., Guarantee Title Bldg., **(d4)** $10,901 **(c5)** $16,731 **(d6)** $16,333 **(c7)** $17,410 **(a8)** $32,342 **(a9)** $37,180 **(c10)** $8,831. Grand total $496,706.

O., Columbus—Franklin Co., waterbound paving, etc., 2.531 mi. Norton Rd., Sect. 4 in Prairie Twp., to Kinnear & Barricklow Eng. & Constr. Co., 10 East Town St. $46,484; also waterbound macadam paving, etc., 2.656 mi. Agler Rd., Sect. 2, in Mifflin Twp., to D. W. Botkin & Son, 767 South 22nd St., $64,326, both 18 ft. Noted June 16.

O., Columbus — W. H. Duffy, dir. Pub. Serv., grading and asphalt paving 4,620 sq.yd. Parsons Ave., and 2,410 sq.yd. Seibert St., to Franklin Asphalt Paving Co., 209 High St., $20,633 and $9,400 respectively; grading, curbing, and asphalt paving, etc., 9,100 sq.yd. Grove St., and 17,480 sq.yd. Beulah Rd., to Cleveland Trinidad Paving Co., Grand Theatre, $21,263 and $60,598 respectively; grading, curbing and asphalt paving, etc., 680 sq.yd. Brynhild Rd., to Fritz-Pyle Constr. Co., 400 Cleveland Ave., $4,086; grading and asphalt paving, etc., 1,000 sq.yd. Olentangy St., to B. F. Patterson, 1214 Neil Ave., $5,616; also grading and paving alleys in various streets, to C. & G. Constr. Co., 36 West Gay St., $21,544. Grand total $143,140. Noted June 9.

O., Hamilton—W. R. Conklin, surv. Butler Co., grading and waterbound macadam paving, etc., Coles Rd., Lemon Twp., 18 ft., to C. J. Uible, Hamilton, $33,000. Noted Jan. 13.

O., Massillon — Improving Akron St., Maple and Lincoln Aves., to E. O. Vogt Paving Co., Massillon. $46,000.

O., Upper Arlington (Columbus P. O.)—N. H. Copeland, village clk., to A. W. Burns Constr. Co., 424 Woodland Ave., Columbus, grading, curbing and sheet asphalt paving, etc. 2,600 sq.yd. Devon Rd., $9,833, 3,000 sq.yd. North and South Mallway St. $10,793, 2,400 sq.yd. Coventry Rd. $10,209, and 2,800 sq.yd. Waltham Rd. $18,824; also to B. F. Patterson, 1214 Neil Ave., Columbus, grading, curbing, walks and sheet asphalt paving, etc. 275 sq.yd. Arlington Ave. $3,393. Grand total $53,052.

Ind., Crown Point—Lake Co., constructing Sects. A and C Ben Lynch Rd., to Ahlborn & Levine, Hammond, $176,160. Sect. B same road, to H. P. Downey, Hammond, $144,075; Sect. D same road, to J. J. Nedil, Whiting, $137,400. Grand total $457,635.

Mich., Paw Paw—Comrs. Van Buren Co., graveling 5.3 mi. Breedsville-Grand Junction Rd., 12 ft., to Ackerman Bros., Bangor, $44,811.

Ill., Alton—Concrete and brick paving 11,360 sq.yd. Washington Ave., and concrete paving 5,350 sq.yd. Pearl St., to J. B. Miller, Alton, $29,800 and $25,000 respectively. Noted Feb. 10 and May 5.

Wisconsin—State Hy. Comn., 213 South Barstow St., Eau Claire, grading and concrete paving 45,463 sq.yd. Cadott-Stanley

Streets and Roads (Continued)

Rd., Chippewa Co., to Wilson Constr. Co., Appleton, $131,134.

Wis., Fond du Lac—Fond du Lac Co., G. Treleven, comr., grading, etc., approximately 20,000 cu.yd. Fond du Lac-Rodgersville Rd., Job 2733, to H. B. Lynch, Milwaukee, $17,825, approximately 10,900 cu. yd. Kewaskum-Campbellsport-Marblehead Rd., Job 2737, to F. J. Roberts, Burlington, $6,690, and approximately 79,530 cu.yd. Lake De Nuvue East Rd., Job 2739, to Burch Constr. Co., 105 Monona Ave., Madison, $42,334; also constructing Kraus Bridge, Job 2733-B, to Garvey-Weyenberg Constr. Co., 807 College St., Appleton, $9,157, and Gratton Bridge, Job 2733-A, to Chernus Constr. Co., 524 McKnight Bldg., Minneapolis, Minn., $9,892. Grand total $85,898.

Wis., Janesville — C. E. Moore, comr. Rock Co., grading 40,000 cu.yd. Milton Junction-Newville Rd., to P. W. Ryan & Sons, Janesville, $20,400; crushed graveling 8,500 cu.yd. Six Corners-East Rd., to Kennedy Bros., Footville, $8,415, and 4,000 cu.yd. Harmony Rd., to J. McBride, Jr., Milton, $6,410. Grand total $35,225.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., rein.-con. sidewalks on Miller Ave., to J. C. Bluhm, 1299 Achilles Pl., $10,027; asphalt on concrete paving, etc., 38th St., and grading, paving, etc., alley between 25th and 26th Sts., to A. E. Retzlaff, 868 Island Ave., $1,905 and $1,299 respectively; asphaltic concrete paving St. Paul Ave. and Wells St., to Wisconsin Asphalt Paving Co., 123 Wisconsin Ave., $12,800 and $46,690 respectively. Grand total $72,721.

Wis., Milwaukee—Milwaukee Co., W. J. Cary, clk., to White Constr. Co., 1141 30th Ave., widening and paving Greenfield Ave. $37,420, Loomis Rd. $22,875, and Packard Ave. $31,404; and to A. E. Retzlaff, 868 Island Ave., grading, paving, etc., South Fond du Lac Rd., $77,616. Grand total $169,315.

Iowa—State Hy. Comn., Ames., grading 10.08 mi. Primary Road 14, Project 429, Floyd Co., to J. W. Ault, Ft. Dodge, $29,428, 9.13 mi. U. S. Highway 34, Project 479, Mills Co., to E. A. Wickham & Co., 19 Scott St., Council Bluffs, $38,684, 1.67 mi. U. S. Highway 32, Project 22, and 13.932 mi. U. S. Highway 32, Project 297, Pottawatomie Co., to G. W. Condon, 514 Federal Reserve Bldg., Omaha, Neb., $12,192 and $116,399 respectively, and 0.742 mi. U. S. Highway 30, Project 407, Story Co., to P. E. Shugart, Nevada, $4,747; graveling 12.194 mi. Primary Road 16, Project 30, Boone Co., to R. Cook, Nevada, $9,651, 16.482 mi. U. S. Highway 30, Project 487, Crawford Co., to C. Byers, Cedar Rapids, $12,037; and gravel resurfacing 5.16 mi. around State Hospital Rd., to H. R. Maudlin, Nevada, $2,917. Grand total $226,256. Noted June 2.

Ia., Charles City—Floyd Co., to J. W. Ault, Ft. Dodge, improving 10.081 mi. Primary Project 429, 106,633 cu.yd. earth excav., at $0.262 per cu.yd., and 200 cu.yd. rock excav. $1, 59,607 sta.yd. overhaul $0.02, 416 ft. 15- to 36-in. culvert pipe labor at $0.20 and $0.25.

Ia., Council Bluffs—Pottawatomie Co., grading 13,932 mi. road east and west of Oakland, U. S. Highway 32, to Condon & Cunningham, Omaha, Neb., $116,399.

Ia., Newton—Jasper Co., grading 271,844 cu.yd. Primary Grading Project 99-D and E, to Miller & Son, Kellogg, at $0.37 per cu.yd.

Ia., Sioux City—Concrete paving 3,000 sq.yd. Perryway and 40th Sts., to W. A. Klinger, 518 Warnock Bldg., at $2.14 per sq.yd.; 2,500 sq.yd. South Helen St., to Jensen & Krage, 205 Metropolitan Bldg., $2.06; 3 alleys, Collins, and West Horn Sts., to Harrington & Jorgenson, 3904-6th Ave., at $1.91 to $2.07 per sq.yd.; 870 sq.yd. South Patterson St., to Booth & Olson, 318 Grain Exch. Bldg., $2.07; and 3,230 sq.yd. 27th St., to P. C. Hansen, 1322 Court St., $2.14. Noted May 26.

Minn., Duluth—G. P. Phillips, city comr., concrete paving, etc., 4,986 sq.yd. Cottage Ave., to C. Miller, 616 East 11th St., $24,630; and 4,550 sq.yd. Tioga St., to J. W. Salo Constr. Co., 1215 East 11th St., $25,673.

Kan., Independence — Grading, curbing and concrete paving, etc., 10 blocks Southside Dr., Beech, Chaney, Chestnut, Fountain, 2nd, and 16th Sts., to A. G. Sherwood, Independence, $37,202. Noted Apr. 7.

Neb., Wahoo — Grading, curbing and vibrolithic rock on rein.-con. paving 16,000 sq.yd. streets in Paving Dists. 7 and 8, to Central Bridge & Constr. Co., Wahoo, $51,769. Noted June 9.

Mo., Joplin—Asphalt on concrete paving 7,650 sq.yd. Connor Ave., 1,050 sq.yd. 22nd St., and 6,850 sq.yd. Porter Ave., to H. Kost, 2002 Jackson Ave. at $1.69 per sq.yd. Noted June 16.

Mo., Kansas City—Petroleum asphalt paving Main St. between 12th and 18th Sts., to Midwest Paving Co., Valentine St. and Bway., $31,336.

Mo., La Plata—Grading, curbing and 6 in. rein.-con. paving, etc., 10,000 sq.yd. various streets, to H. Tidd, 102 West 21st St., Hutchinson, Kan., $36,783.

Mo. Springfield—Concrete paving 1,414 sq.yd. North Fremont Ave., to E. V. Koch, 2001 Bird Ave. at $1.94 per sq.yd., and 824 sq.yd. alley west of Campbell St., to H. Prosperi, 1220 North Campbell St. $1.99; 3,645 sq.yd. Blaine Ave. and grading, etc., for National Ave. Subway, to Stigall Constr. Co., Talmadge and Benton Sts. $1.98 per sq.yd., and $17,800 respectively.

Mo., Springfield — Concrete paving, etc., 13,639 sq.yd. Kimbrough Ave., to C. F. Brindle, 2400 Minneapolis Ave., Kansas City, Kan., at $1.90 per sq.yd.

Mo., University (Sta. St. Louis) — See "Sewers."

Texas—State Hy. Dept., Austin **(e.e. means engrs. est.)** rein.-con. paving and wire mesh guard fence on 13.56 mi. Highway 5, Federal Aid Project 438, Hall Co., 18 ft. to V. P. Strain, Salt Lake City, Utah, $360,411 e.e. $400,000; grading, bridging, etc. 5.409 mi. Highway 99, Tom Green Co., 26 ft., to McClung Constr. Co., F. & M. Bank Bldg., Ft. Worth, $46,934 e.e. $56,000; clearing, grubbing, grading, bridging, etc. 18.586 mi. Highway 1-A, Federal Aid Project 495, Shackleford, Jones and Callahan Counties, 26 ft., to F. Purvis, Waggoner Bldg., Ft. Worth $45,294 e.e. $35,000; also several rein.-con. bridges over 20 ft. span on latter project, to L. A. Stanford, 1217 St. L. St., Ft. Worth, $26,093. Grand total $478,732.

Tex., Galveston—Galveston Co., clearing, grubbing, grading, bridging, etc. 3.33 mi. Highway 6, 26 ft., to S. F. Vann, Trinity $22,439. Engrs. est. $28,000.

Okla., Drumright—Grading, curbing and 6 in. concrete paving 7,900 sq.yd. Paving Dist. 5, to Luke Constr. Co., Sapulpa, approximately $43,000. Noted June 9.

Okla., Maud — Grading, curbing and concrete paving 9,700 sq.yd. Main St., to Standard Paving Co., 1742 East 6th St., Tulsa, $36,130. Engrs. est. $38,500. Noted June 9.

Colo., Denver—Dept. Impvt. & Parks, curbing grading and surfacing Montclair Impvt. Dist. 4, to Western Constr. Corp., 3262 Blake St., $170,147; and South Denver Impvt. Dist. 27, to J. Collier, 67 South Logan St., $67,265.

Colo., Denver—Dept. Impvts. & Prks., to W. F. Pigg & Son, Commonwealth Bldg., concrete paving 12 blocks Alley Paving Dist. 162, $19,898, to M. E. Carlson, 4483 Newton St., Alley Paving Dist. 163 $21,380, Alley Paving Dist. 164 $15,928, and 12 blocks Alley Paving Dist. 161 $15,831. Grand total $73,037. Noted June 9.

Ore., Portland—Comrs. Multnomah Co., Court House, grading, etc., 3½ mi. Canyon Rd., to Wren & Greenough, 554 East Morrison St., $431,302. Noted June 9.

Wash., Chehalis—Lewis Co., constructing 2.75 mi. Permanent Highway between Mayfield and Winston Creek, to Hendricks & Olson, Chehallis, $29,484.

Wash., Seattle—Bd. Pub. Wks., paving 12th Ave. N. W., et al, to R. G. Stevenson, 1237 Northlake St., $147,248; and East 69th St. et al, to Goetz & Breman, Seaboard Bldg., $69,235.

Wash., Tacoma—Bd. Awards, improving 10,200 lin.ft. Union Ave., 46,692 cu.yd. grading, 5,012 cu.yd. graveling, 264 cu.yd. concrete in retaining wall, etc., to McHugh & Johnson, $40,078, engrs. est. $49,300; and 6 in. concrete paving, etc., 15,399 sq.yd. South M, 19th and 21st Sts., to Paine, Galluccio Milone, Tacoma, $39,525, engrs. est. $48,511.

California—State Hy. Dept., Sacramento **(e.e. means engrs. est.)**, grading and crushed gravel or stone surfacing approximately 6.7 mi. roadway between La Moine and Shotgun Creek, Shasta Co., to A. Haidlen Co., San Francisco, $281,762 e.e. $297,633; concrete paving, etc. approximately 1.5 mi. roadway between Colma and Cypress Lawn Cemetery, San Mateo Co., to Hanrahan Co., San Francisco, $179,890 e.e. $191,220; grading and concrete paving, etc. approximately 0.8 mi. roadway at Del Mar, San Diego Co., to Jahn & Bressi Constr. Co., Inc., 742 South Spring St., Los Angeles, $56,726 e.e. $61,513. Grand total $518,378. Noted May 26 and June 2.

Calif., Glendale—Grading and 3 in. Warrenite paving 322,700 sq.ft. Hillside Dr. and Sierra Pl., etc., to C. U. Heuser, 816 Allen Ave., $157,878.

Calif., Los Angeles—Los Angeles Co., 2½ in. asphaltic concrete paving 231,553 sq.ft. Huntington Dr., to Hall-Johnson Co., 905 Westminster Ave., Alhambra, $77,500; concrete and asphaltic concrete paving Pendleton Ave. between Pacoima and San Fernando Rds., to McCray Co., Subway Terminal Bldg., $32,155; grading and 6 in concrete paving, etc., 220,352 sq.ft. Artesia Ave., to J. M. Schull Co., 122 Walnut St., Riverside, $80,889; improving Vermont Ave., to J. Mullarkey, 8435 Vermont St., $41,734; grading, curbing, walks and concrete paving Venice Blvd. between Eagley and Overland Aves., to G. R. Curtis Paving Co., 2440 East 26th St., $69,357. Grand total $301,635. Noted May 26.

Calif., Los Angeles — Bd. Pub. Wks., grading and 8 in. concrete paving 348,143 sq.ft., and 6 in. concrete paving 163,636 sq. ft. Laurel Canyon Rd., also grading, concrete and Willite asphaltic concrete paving, etc., Norfolk St., to Griffith Co., Railway Bldg., $332,201 and $27,016 respectively; grading and concrete paving Sycamore Ave. between De Long Ave. and Santa Monica Blvd., to Braun, Bryant & Austin, 6244 Washington Blvd., Culver City, $28,338; also grading, oiling and 8 in. concrete paving 568,193 sq.ft. Clybourn Ave., to G. W. Ellis, 1005 Kenneth Rd., Glendale, $209,388. Grand total $596,943.

Calif., San Diego—Common Council, 6 in. concrete paving 208,440 sq.ft. Georgia St., to B. Noble, Spreckles Bldg., $38,224.

Calif., Santa Ana—Orange Co., grading and concrete paving 2,589 cu.yd. Rd. Impvt. 49, to Griffith Co., Railway Bldg., Los Angeles, $37,500.

Calif., Santa Ana—Curbing, walks and concrete paving, etc. Greenleaf St. between 7th St. and Santa Clara Ave., to T. W. Oglesby, 423 Edgewood Rd., $25,781. Noted June 2.

Ont., Walkerville—Concrete paving, various streets, to Merlo, Merlo & Ray, Ford City, $50,000.

Ont., Welland — Ross & Scott, engrs., Welland, asphalt penetration paving 4½ mi. Good Roads System, to Law Constr. Co., Confederation Life Bldg., Toronto, for Welland Co. $70,000. Noted May 26.

Buildings—Commercial

Proposed Work

Me., Farmington — HOSPITAL — Town and Commonwealth Fund 1 East 57th St., New York City, N. Y., plan 2 story and basement hospital. $150,000 appropriated. Pelton & Rogers, 415 Lexington Ave., New York City, archts.

N. H., Woodsworth—BANK—Woodsville Natl. Bank, c/o Hutchins & French, archts., 11 Beacon St., Boston, Mass., having sketches made 1 story and basement, rein.-con., brick and steel, plain foundation. $150,000.

Mass., Attleboro—HOME and STORE—B. P. O. E., c/o O'Malley & Fitzsimmons, archts., Fanning Blk., Pawtucket, R. I., having revised plans prepared 2 story and basement, brick and stone, plain foundation, Winter St. $150,000-$175,000.

Mass., Boston—OFFICE—Owner, c/o J. W. Beal Sons Co., archts., 185 Devonshire St., having plans prepared 4 story and basement, brick and stone, plain foundation, 380 Commonwealth Ave. $150,000.

Mass., Greenfield—HOTEL—J. T. Sellew, mgr. Weldon Hotel Corp. soon takes bids, altering and constructing 3 story and basement, brick and tile addition, plain foundation, High St. $150,000. Smith & Annabel, 145 State St., Springfield, archts.

Mass., Lowell—STORE and OFFICE—G. C. Fairburn, 10 Kearny St., having plans prepared by H. P. Graves, 40 Middlesex St., 4 story and basement, brick, plain foundation, Merrimac St. $150,000.

Mass., Lowell—THEATRE—R. E. Brown, Elm St., Andover, having plans prepared by C. L. Kemp, 8 Platt St., Lawrence, 2 story and basement, 60 x 100 ft., brick and steel, plain foundation, 49-59 East Merrimac St. $150,000.

Mass., Lynn — STORE and OFFICE — Essex Tire & Supply Co., 118 Central Ave., having preliminary plans prepared 4 story and basement, brick, plain foundation. $150,000 or more. G. A. Cornet, 10 Central Ave., archt.

Mass., Malden (br. Boston)—STORE and OFFICE—Malden Gas & Electric Co., c/o C. H. Tenney Co., engrs., 200 Devonshire St., Boston, altering and constructing 5 story and basement, brick addition, plain foundation, 161 Pleasant St., to Simpson Bros. Corp., 77 Summer St., Boston. Archts. est. $150,000. Noted Mar. 24.

Mass., Springfield — WAREHOUSE — Boston & Maine R.R., W. J. Backes, ch. engr., Boston, plans brick and steel fruit storage warehouse, here. $200,000.

Mass., Waltham (Ind. br. Boston)—STORE and APARTMENT—H. Weiner, 48 Rich St., having plans prepared by W. M. Haines, 32 Riverview Ave., 3 story and

Buildings—Commercial (Continued)

basement, brick and stone, plain foundation, Main and Wellington Sts. $150,000.

Mass., Waltham (Ind. br. Boston)—THEATRE and STORE—Owner, c/o G. N. Jacobs, archt., having revised plans prepared 2 story and basement, brick and steel, plain foundation, Moody St. To exceed $150,000. Former bids rejected. Noted June 2.

Conn., Hartford—THEATRE—W. Heimovitch, 252 Asylum St., plans theatre, 1,000 seating capacity, Farmington Ave. $160,000. Engineer and architect not selected.

Conn., New Haven—APARTMENT—A. Perlroth, 341 State St., had plans prepared 3 story, brick and steel, Whitney Ave. $310,000. Private plans.

Conn., Stafford Springs—BANK—Stafford Savings Bank, c/o T. M. James Co., archt., 3 Park St., Boston Mass., having preliminary plans prepared 1 story and basement, rein.-con. brick, steel and stone, plain foundation. $150,000.

Conn., Torrington — HOSPITAL — Charlotte Hungerford Hospital, T. W. Bryant, 290 Midgeon Ave., plans hospital, $150,000 or more. Engineer and architect not selected.

N. Y., New York — ARENA — H. J. Fugazy, 1599 Bway., having sketches made by T. W. Lamb, 644 8th Ave., 225 x 550 ft., brick and steel, concrete foundation, 12th Ave. and 52nd St. $4,500,000.

N. J., Elizabeth—APARTMENT—W. L. Finne (owner and archt.), 91 Broad St., revising plans and soon takes bids 5 story, brick and steel, plain foundation, 120-26 DeHart Pl. $175,000. Noted June 30.

N. J., Elizabeth—Y.W.C.A., E. N. Renshaw, chn., 1131 East Jersey St., plans building. $150,000 funds being raised. Engineer and architect not selected.

N. J., Elizabeth—J. Jackson, archt., 137 East 45th St., New York City, soon lets contract general contract 3 story, brick and steel, plain foundation, Madison Ave. between East Jersey and Lafayette Sts., here, for Y. M. C. A. 1164 East Jersey St. $250,000. Poggi & Bragdon, 275 Morris Ave., associated archts.

N. J., Jersey City — OFFICE, WAREHOUSE and GARAGE—Pub. Serv. Electric & Gas Co., 84 Sip Ave., having plans prepared by Pub. Serv. Production Co., 80 Park Pl., Newark, 2 story, 120 x 190 ft., brick and steel, plain foundation, New York Ave. and Ferry St. $150,000.

N. J., Lyndhurst (br. Rutherford) — APARTMENT and RESTAURANT—Livan Bros., Inc., c/o A. P. Nucciarione, archt., 206 Central Ave., Orange, having revised plans prepared and soon takes new bids 4 story, 100 x 100 ft., brick and steel, plain foundation, 2nd and Livingston Sts. $160,000. Noted Apr. 28.

N. J., Newark—APARTMENT—Harrison R. Van Duyne, Inc., 790 Broad St., plans brick and steel, plain foundation, Weequahic Section. $150,000. Private plans.

N. J., Newark—BANK—Necarsulmerz & Lihlbach, archts., 420 Lexington Ave., New York City, soon takes bids., general contract 2 story, brick and steel, plain foundation, plain foundation, Hayes Circle, for Hayes Circle Natl. Bank & Trust Co., 29 Elizabeth Ave. $150,000. Noted June 2.

N. J., Newark—OFFICE—J. C. Eisele, Inc., 9 Clinton St., having sketches made by Meyers, Bigelow & Shanley, 24 Walnut St., 31 story, 60 x 200 ft., rein.-con., brick and steel, concrete pile foundation, 200-204 Market St. $2,000,000.

N. J., Paterson — COMMERCIAL and OFFICE—B. Grunauer Co., 29 Church St., having plans prepared by E. R. Coe, 136 Washington St., 2 story and basement, 55 x 150 ft., brick and steel, plain foundation, 23-25 Church St. $150,000.

N. J., Plainfield—APARTMENT—Oxford Realty Co., 240 West Front St., having plans prepared 5 story, brick and steel, plain foundation, 303 West 8th St. $150,000. Private plans.

N. J., Plainfield—APARTMENT—Oxford Realty Co., 240 West Front St., having plans prepared by R. P. Chatfield, 401 Harrison Ave., Westfield, 4 story, brick and steel, plain foundation, West 7th and Liberty Sts. $200,000.

N. J., Ridgewood—THEATRE, STORE and OFFICE—North Oak Impvt. Co., North Oak St., having sketches made by P. Vivarttas, 110-48th St., Union City, 3 story, brick and steel, plain foundation, Franklin Ave. and North Oak St. $500,000.

N. J., Scotch Plains—HOSPITAL—Bd. Freeholders Union Co., Court House, Elizabeth, having sketches made by Oakley & Son, 1259 Clinton Pl., Elizabeth, 3 story, brick and steel, plain foundation, County Hospital Grounds, here. $200,000.

N. J., Teaneck (mail West Englewood) — APARTMENT — A. Koeller, 48 Grand Ave., Ridgefield, plans 5 story, brick and steel, plain foundation, Teaneck Rd. and Poplar St., here. $250,000. Engineer and architect not selected.

Pa., Chester—DEPARTMENT STORE—A. C. Coshland, archt., Crozer Bldg., soon takes bids, 2 story and basement, 65 x 122 ft., and 27 x 29 ft., brick and steel, plain foundation, 3rd and Market Sts., for S. and S. Propper, c/o architect. $150,000.

Pa., Pittsburgh — OFFICE — Medical Building Co., c/o L. Wechsler, 4819 Douglas St., having plans prepared by H. G. Hodgkins, Jones Law Bldg., 6 story and basement, brick and steel office building. $200,000.

Pa., Reading — THEATRE — Franklin Amusement Co., c/o W. H. Lee, archt., Schaff Bldg., Phila., having plans prepared 1 story, balcony and basement, approximately 85 x 220 ft. theatre, here. $400,000.

Md., Baltimore—BANK and OFFICE—Baltimore Trust Co., Light and Baltimore Sts., having plans prepared by Smith & May, Calvert Bldg., and Taylor & Fisher, Union Trust Bldg., probably 20 story, 112 x 195 ft., rein.-con., brick and steel, plain foundation, Light and Baltimore Sts. $2,000,000.

O., Columbus—CHAPEL—J. E. Harper, dir. Dept. Welfare, Oak and 9th Sts., having sketches drawn by H. B. Briggs, Ohio-Hartman Bldg., 175x200 ft., 45 ft. high, brick and concrete, West Spring St. $200,000.

Ill., Hinsdale—COMMUNITY—Memorial Union Building Com., P. R. Clarke, chn., takes bids about Aug. 1, 1 and 2 story, 43 x 113 ft., and 28 x 29 ft., rein.-con., brick, steel and tile, Garfield and Maple Sts. $165,000. E. H. Clark, Inc., 8 East Huron St., Chicago, Ill., archts. Noted June 23.

Ill., Mt. Carmel—HOTEL and GARAGE—A. R. Hanley soon takes bids 5 story and basement, 100 x 105 ft., rein.-con., 6th and Market Sts. $150,000. Berger & Kelly, Lincoln Bldg., Champaign, archts. Noted June 23.

Ill., Oak Park—COMMUNITY HOUSE—Roberts & Roberts, archts., 82 West Washington St., preparing plans and soon takes bids 3 story, brick, Oak Park Ave. and Ontario St., here, for First Baptist Church, Oak Park. $300,000.

Ill., Watseka—HOTEL—C. D. Kopp, et al. take bids about Oct. 1, 4 story and basement, 49 x 150 ft., concrete, brick and steel hotel. $150,000. L. Steube, Adams Bldg., Danville, archt. Noted June 23.

Mo., Columbia—THEATRE, STORE and OFFICE—Company forming, c/o H. H. Banks, pres., Columbia Savings Bank, having preliminary plans prepared 2 story, rein.-con., brick, stone and terra cotta theatre, 1,500 seating capacity, here. $200,000.

Mo., Kansas City—RECREATION—Pla-Mor Corp., c/o P. M. Fogel, pres., 619 Reliance Bldg., having plans prepared by C. A. Smith, 800 Finance Bldg., recreation project, incl. motion picture theatre, 1,500 seating capacity, dance hall, 5,000 seating capacity, roman swimming pool, etc., rein.-con. and steel, Main and Spring Sts. To exceed $150,000.

Mo., St. Louis — HOTEL — Syndicate forming, c/o Jacob Slupsky, Flora Realty & Investment Co., 5526 Pershing Ave., having preliminary plans prepared 16 story and basement, 130 x 150 ft., rein.-con., brick, stone, terra cotta and steel, Washington Ave. and 6th St. $1,500,000.

Tex., Brownwood—HOTEL—Hotel Co., c/o T. Posey, having plans prepared by A. F. Korn, 816 Thomas Bldg., Dallas, 5 story, brick, steel and rein.-con. hotel, here. $300,000.

Tex., Childress — HOTEL — Arch Nave soon takes bids, 7 story and basement, 125 room, rein.-con., brick and stone hotel. $350,000. W. C. Hedrick, 1005 1st Natl. Bank Bldg., archt.

Tex., Dallas—OFFICE—E. R. Carpenter and associates, Medical Arts Bldg., plan 15 story, Olive St. near Live Oak St. Engineer and architect not selected.

Tex., Houston—BANK and OFFICE—San Jacinto Trust Co., c/o G. Howard, Humble Bldg., having plans prepared by J. W. Northrop, Jr., 615 Kirby Bldg., 4 story, (ultimately 18 story) 60 x 127 ft., Main and Lamar Sts. $200,000.

Tex., Houston—SANITARIUM—E. Marvin Bailey & L. M. Farquaharson, doctors, having plans prepared 4 story sanitarium and swimming pool. $200,000. Private plans.

Tex., Liberty—COURTHOUSE—Liberty Co., c/o C. R. Wilson, judge, having plans prepared by C. G. Curtis, Liberty, 3 story and basement, rein.-con., brick and steel, plain foundation, $250,000.

Tex., Temple—HOTEL—A. C. Scott & associates plan 100 room hotel. $200,000. Engineer and architect not announced.

Tex., Temple—HOTEL—F. Doering & associates, plans 6 or 7 story and part basement, fireproof hotel. $150,000 incl. equipment. Private plans.

Tex., Port Lavaca—HOTEL—Bayside Beach Inc., Kirby Bldg., Dallas, purchased site and having plans prepared by Ferrand & Fitch, 701 Slaughter Bldg., 3 story 250 ft. front, incl. swimming pool, roof garden, Bayside Beach. $700,000.

Tex., San Angelo—CITY HALL—City, c/o E. V. Spence, mgr., soon takes bids city hall. $250,000.

Tex., San Antonio — OFFICE — F. L. Thompson, c/o Grayburg Oil Co., Maverick Bldg., purchased site, etc. and plans office building, Travis and North Alamo Sts. $500,000 or more. Engineer and architect selected soon.

Tex., Wichita Falls — HOSPITAL — Wichita Falls State Hospital, H. H. Harrington, chn., having plans prepared by Voelcker & Dixon, Wichita Falls, hospital $150,000.

Okla., Holdenville—HOSPITAL—M. A. Floyd, Holdenville, having preliminary plans prepared 3 story and basement, 68 x 140 ft., rein.-con. and brick, plain foundation, Choctow St. $175,000. Engineer and architect not selected.

Ore., Portland—THEATRE—Washington Theatre Enterprises, C. Fischer, mgr., White-Henry-Stuart Bldg., Seattle, Wash., having plans prepared by S. D. Ford, 630 Lyon Bldg., Seattle, Wash., 2 story, approximately 200 x 300 ft., rein.-con. and tile, here. $1,000,000.

Calif., Alameda—APARTMENT—Interests represented by F. R. Neville, 1514 Webster St., having plans prepared 7 story and basement, 85 x 135 ft., steel and concrete, East Santa Clara St. $180,000. Engineer and architects names withheld.

Calif., Berkeley — HOTEL — Heath & Wendt, 2116 Ralston Way, having plans prepared 4 story and basement, brick and steel, Haste St. and Telegraph Ave. $150,000. Private plans.

Calif., Glendale—APARTMENT—W. W. Smith, archt., 1242 Kensington Ave., preparing plans 5 story and basement, brick apartment. $150,000. Owners name withheld.

Calif., Glendale—HOTEL and APARTMENT—C. H. Kent, c/o R. A. Hill, archt., Chester Williams Bldg., had plans prepared 4 story and basement, brick, Orange St. $150,000.

Calif., Livermore—HOTEL—W. R. McKinnon, G. F. Tubbs, et al, c/o G. Rushforth, archt., 354 Pine St., San Francisco, having preliminary plans prepared 4 story and basement, 100 room, rein.-con., 1st and L Sts. $500,000.

Calif., Los Angeles—APARTMENT—J. Hawley, Kipling Hotel, plans approximately 12 story and basement apartment, 7th and Berando Sts. $500,000.

Calif., Los Angeles—APARTMENT—G. Parker, c/o L. L. Jones, archt., Douglas Bldg., having plans prepared 11 story and basement, 82 x 110 ft., concrete and steel, Ivar St. $450,000.

Calif., Napa — HOTEL — Weeks Investment Co. et al, c/o W. H. Weeks, archt., 369 Pine St., San Francisco having plans prepared, approximately 5 story and basement, fireproof, 1st St. $300,000.

Calif., Oakland — WAREHOUSE and CANNING PLANT—California Co-Operative Producers, c/o Union Constr. Co., 14th St., plans concrete and steel, west end 14th st. $3,000,000 or more.

Calif., Redondo Beach — THEATRE — West Coast Theatres, Inc., Washington St. and Vermont Ave., Los Angeles, plans probably 2 story theatre, 2,000 seating capacity, here. To exceed $150,000. Engineer and architect not selected.

Calif., Sacramento — PRODUCE TERMINAL — San Francisco Produce & Provision Terminals, Inc., W. H. Kearney, pres., 315 Montgomery St., San Francisco, plans main building approximately 1375 ft. long, 550 ft. wide, etc., steel and concrete, area bounded by Marina, Laguna, Beach and Buchanan Sts. $4,000,000-$6,000,000.

Calif., San Jose — WAREHOUSE and OFFICE—Blake, Moffit & Towne, 41 1st St., San Francisco, plans fireproof, San Pedro St., here. $150,000. J. Gallowy, 1st Natl. Bank Bldg., San Francisco, engr.

Ont., Cornwall—HOTEL—Town having plans prepared by Ross & Macdonald, 1 Belmont St., Montreal, Que., 5 story and basement, 60 x 90 ft., brick and steel, concrete foundation. $250,000.

Que., Montreal—APARTMENT—Marotta Constr. Co., 1134 St. Viateur St., Outremont, soon takes bids rein.-con., Roslyn Ave., here. $160,000. W. S. Wright, 26 Victoria Sq., archt.

Que., Montreal—APARTMENT HOUSE—I. H. Maher, 390 Cote des Neiges Rd., soon takes bids 6 story, brick, steel and stone

Buildings—Commercial (Continued)

Cote des Neiges Rd. $200,000. Private plans.

Bids Desired

Me., Augusta — HOSPITAL — Augusta State Hospital, F. Tyson, supt. taking bids 3 story and basement, brick and stone addition, plain foundation. $150,000. H. S. Coombs, 11 Lisbon St., Lewiston, archt. Noted Dec. 9.

Mass., Cambridge (Boston P. O.)—GARAGE—July 8, by Natl. Biscuit Co., 85 9th Ave., New York City, garage addition, Albany and Pacific Sts., here. J. R. Torrance, 85 9th Ave., New York City, archt.

Mass., Everett (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Quincy (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Quincy (br. Boston) — HOTEL APARTMENT—See "Contracts Awarded."

Mass., Springfield—APARTMENT—R. B. Marsh, 55 Allyn St., Hartford, Conn., taking bids 4 story and basement, brick and stone, plain foundation, Federal St. $150,000 or more. J. B. Foster, 105 Bridge St., archt.

Mass., Springfield—LODGE—See "Contracts Awarded."

Conn., Bridgeport—HOSPITAL—July 20, by E. B. Caldwell, Jr., archt., 886 Main St., 3 story and basement, 43 x 190 ft., rein.-con., brick and steel, plain foundation, Grand St. and Mill Hill Ave., for City, Hospital Dept. $160,000.

Conn., Middletown — Y. M. C. A., E. S. Hubbell, chn., taking bids 2 story and basement, 115 x 145 ft., rein.-con., brick and steel, Union and Crescent Sts. $300,-600. D. Orr, 956 Chapel St., New Haven, archt.

N. Y., New York—CLUB—July 26, by York & Sawyer, archts., 100 East 42nd St., 20 story and basement, brick and steel, 7th Ave. from 58th to 59th Sts., for New York Athletic Club, 58 West 59th St. $4,-800,000. Noted June 23.

N. Y., Willard—EMPLOYEES HOMES—July 27, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, constructing female employees' home, and married employees home, at Willard State Hospital, here. S. W. Jones, Capitol, Albany, state archt.; adv. E. N.-R. July 7. Noted June 23.

N. Y., New York—OFFICE and STORE—See "Contracts Awarded."

N. J., Bloomfield — APARTMENT — See "Contracts Awarded."

N. J., Irvington (br. Newark)—APARTMENT—See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awarded."

N. J., Nutley (br. Newark)—APARTMENT—See "Contracts Awarded."

Pa., Phila.—ADMINISTRATION—July 14, by Dept. City Transit, W. E. Ehler, dir., altering and constructing superstructure 2 story, 40 x 109 ft., Broad and Grange Sts., Broad St. Subway Contr. 170. Private plans.

Pa., Phila.—COMMUNITY—July 14, by E. L. Rothschild, archt., Bankers Trust Bldg., 2 story and basement, 47 x 115 ft., rein.-con., brick and steel, plain foundation, 508 Moore St., for Assn. Talmud Torahs, c/o L. E. Levinthal, Bankers Trust Bldg. Noted June 23.

O., Columbus — Griswold Memorial Y. W. C. A., taking bids 9 story and basement, 90 x 184 ft., brick, steel and concrete building. Miller & Reeves, 203 East Broad St., archts.

O., Dover—HOME—July 15, by Director Elks Home Co., 4 story and basement, stone, East High St. $150,000.

Mich., Detroit — OFFICE — July 15, by Smith Hinchman & Grylls, archts., 800 Marquette Bldg., 45 story and basement, rein.-con., brick and steel, Griswold and Fort St., for Murphy Estate, Penobscot Bldg. Noted Apr. 21.

Ill. Chicago — APARTMENT — Koeingsburg & Weisfeld, archts., 105 North Clark St., taking bids 13 story and basement, 50 x 150 ft., rein.-con., brick and terra cotta, 1246 Pratt Blvd., for Twelve Hundred Forty-Six Building Corp., c/o architects. $800,000.

Ill., Chicago — APARTMENT HOTEL — Lowenberg & Lowenberg, associated archts., 111 West Monroe St., taking bids 17 story and basement, 74 x 104 ft., rein.-con. and brick, 101-109 East Delaware Pl., for Delaware Building Corp., c/o architects. $1,500,000. E. A. Grunswell, 435 North Michigan Ave., archt. and one of owners. Noted Mar. 3.

Ill., Chicago — OFFICE, WAREHOUSE, etc.—July 14, by Holabird & Roche, archts., 104 South Michigan Ave., 6 story, 256 x 272 ft., rein.-con., brick and stone office and warehouse, also 1 story, 136 x 168 ft., brick and steel shed, 23rd and Rockwell Sts., for Illinois Bell Telephone Co., 212 West Washington St.

Ill., Moline—HOSPITAL—July 10, by Bd. Hospital Bd.; W. E. Taylor, pres., 4 story and basement, 43 x 80 ft., rein.-con., brick and stone addition, 7th St., for City.

S. D., Rapid City—HOTEL—Oldefest & Williams, archts., 605 North Michigan Ave., Chicago, Ill taking bids (by invitation only) 10 story and basement 75 x 140 ft., rein.-con., brick and stone, here, for Hotel Alexander Johnson, c/o architect. $750,000.

Mo., Kansas City—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles—CHAPEL and DORMITORY—Austin & Ashley, archts., Chamber of Commerce Bldg., taking bids 5 story and basement, 46 x 146 ft., rein.-con., Ocean View Ave., for St. Vincents Hospital, 1151 Sunset Blvd. $175,000.

Calif., Los Angeles—OFFICE—Parkinson & Parkinson, archts., Title Insurance Bldg., taking bids 13 story and basement, 120 x 150 ft., brick, steel and concrete, Westlake Ave. and Wilshire Blvd., for interests headed by W. Morrison, Pacific Mutual Bldg. $500,000 or more.

Bids Received

O., Cleveland—AUDITORIUM—City, W. R. Hopkins, city mgr., June 22, 5 story, basement and 2 wings, 125 x 208 x 60 x 208 ft., steel, stone and concrete, East 6th St., from Hunkin-Conkey Constr. Co., Hunkin-Conkey Bldg., $1,749,000 Noted June 16.

Contracts Awarded

Mass., Attleboro — APARTMENT — G. Watson, Norwood, c/o R. M. Stowell, archt., 184 Boylston St., Boston, brick and stone, plain foundation, Day St., to F. J. Tetrault & Co., Walpole. Archts. est. $150,000.

Mass., Attleboro — THEATRE — Union Theatre, Inc., c/o R. M. Stowell, archt., 184 Boylston St., Boston, 1 story and basement, 90 x 115 ft., brick and steel, plain foundation, to F. J. Tetrault & Co., Walpole. Archts. est. $150,000. Noted May 26.

Mass., Boston—STORE and OFFICE—E. S. Welch, 73 Tremont St., Boston, altering and constructing 5 story and basement, brick addition, plain foundation, to E. A. Abbott Co., 3 Park St. Archts. est. $150,000.

Mass., Boston—STORE and OFFICE—H. F. Yinslow, 30 State St., 4 story and basement, brick and stone, plain foundation, Berkley and Newbury Sts., to W. M. Evatt Co., 200 Devonshire St. Archts. est. $150,000.

Mass., Dorchester (br. Boston)—APARTMENT—W. E. McManus, 4 story and basement, brick and stone, plain foundation, Columbia Rd. and Geneva Ave., to B. E. Elfman, 301 Allston St., Brighton. Archts. est. $225,000. Noted June 30.

Mass., Dorchester (Boston P. O.)—FIRE STATION—City, Fire Dept., 60 Bristol St., Boston, 2 story, brick and stone, plain foundation, Meetinghouse Hill, here, to Phandor Constr. Co., 18 Tremont St., Boston. Archts. est. $150,000. Noted June 23.

Mass., Everett (br. Boston)—APARTMENT—Nason Constr. Co., Orchard St., Swampscott, will build 3 story and basement, brick and stone, plain foundation, Hancock St. $150,000. Work will be done by separate contracts. Private plans. Noted June 30.

Mass., Fall River — THEATRE — Fall River Consolidated Enterprise, Inc., S. L. Lowe, 1 State St., Boston, and 166 South Main St., brick and steel, plain foundation to D. Platt, 99 Bynner St., Boston. Archts. est. $150,000.

Mass., Malden (Boston P. O.)—COMMUNITY—City, 2 story and basement, brick, plain foundation, Oak Grove Sq., to A. Frasca, Saugus. Archts. est. $150,-000. Noted May 26.

Mass., Pittsfield — COURTHOUSE — Comrs. Berkshire Co., 2 story and basement, 60 x 80 ft., brick, steel and granite addition, to J. R. Hampson & Co., 184 North St., $127,700. Noted June 9.

Mass., Quincy (br. Boston)—APARTMENT— R. Guida, c/o R. M. Stowell, archt., 184 Boylston St., Boston, will build 3 story and basement, brick, plain foundation, Fenno St., Wollaston Dist. To exceed $150,000. Work will be done by separate contracts. Noted June 30.

Mass., Quincy (br. Boston)—APARTMENT—Nason Constr. Co., Orchard St., Swampscott, will build 3 story and basement, brick, plain foundation, Orchard St., here. To exceed $150,000. Work will be done by separate contracts. Private plans. Noted June 30.

Mass., Quincy (br. Boston)—HOTEL APARTMENT—Prudential Building Serv. Corp., 37 Washington St., will build 5 story and basement, 45 x 130 ft., brick and stone, plain foundation, Upland Rd. $150,-000 or more. Work will be done by separate contracts. Private plans.

Mass., Roxbury (Boston P. O.)—MATERNITY—Massachusetts Womens Hospital, Parker Hill Ave., 2 story and basement, 60 x 160 ft., brick and limestone, plain foundation, Parker Hill Ave., to James Driscoll & Sons, 294 Washington St., Boston, Archts. est. $150,000. Noted June 23.

Mass., Roxbury (br. Boston)—STORE and OFFICE—Boston Consolidated Gas Co., 250 Stuart St., Boston, 3 story and basement, brick and stone, plain foundation, 17-19 Roxbury St., to G. B. Macomber, 38 Chauncy St., Boston. Archts. est. $150,000.

Mass., Springfield—APARTMENT—T. W. McCarthy, 26 Sachem St., Chicopee, 4 story and basement, 65 x 75 ft., brick, plain foundation, 25-29 High St., to E. J. Pinney Inc., 200 Dwight St., Archts. est. $150,000.

Mass., Springfield — APARTMENT — O. McMahon, 182 State St., 4 story and basement, 69 x 98 ft., 9,853 sq.ft. floor space, brick and steel, 14-16 Mattoon St., to Schnare Constr. Corp., 427 Winter St. Archts. est. $150,000. Noted June 30.

Mass., Springfield—APARTMENT—Maple High, Inc., 60 x 170 ft., brick and steel, Maple St., to E. J. Pinney, Inc., 220 Dwight St. Archts. est. $150,000.

Mass., Springfield — LODGE—Order of Odd Fellows, Pynchon St., will build 4 story and basement, 55 x 138½ ft., brick, steel and limestone, plain foundation, 627 State St., by day labor. $300,000. H. L. Sprague, 1570 Main St., archt.

R. I., Woonsocket—STORE and APARTMENT—Damerjian Bros., 125 Arnold St., 3 story and basement, brick and stone, plain foundation, Arnold and High Sts., to R. Druin, 372 Elm St. Archts. est. $150,000.

Conn., Hartford—BANK—Hartford Natl. B. & T. Co., 835 Main St., c/o Hartford-Aetna, remodeling 6 story, Main and Pearl Sts., to Stone & Webster, 24 Federal St., Boston, Mass. Archts. est. $500,000.

Conn., Hartford—HOSPITAL—Hartford Orphan Asylum, Albany Ave., 2 story and basement, 75 x 140 ft., brick hospital and cottages, etc., to Porteus Walker Co., 113 Forest St., $120,000.

N. Y., Buffalo—STORE and OFFICE—A. Victor Co., Main St., 10 story and basement, 121 x 175 ft., brick and steel, plain foundation, to J. W. Cowper, Main St. Archts. est. $600,000. Noted Apr. 14.

N. Y., New York—BANK and OFFICE—Chase Natl. Bank, 57 Bway., 38 story above ground and 6 below, 94 x 150 x 159 ft., brick, steel and stone, caisson foundation, Nassau St. from Pine to Cedar Sts., to C. T. Willis, Inc., 286 5th Ave. Archts. est. $7,000,000. Noted Feb. 10.

N. Y., New York—OFFICE—New Edison Co., 130 East 15th St., 6 story and basement, 25 x 90 ft., brick and steel, plain foundation, 236 West 72nd St., to Sexton Gerard Co., Inc., 19 West 44th St. Archts. est. $250,000. Noted Apr. 21.

N. Y., New York—OFFICE and STORE—Marcus & Goldstein, 277 Bway., will build 2 story, brick and steel, plain foundation, 207th St. and Bway. $150,000. Work will be done by separate contracts. Springsteen & Goldhammer, 32 Union Sq., archts.

N. J., Bloomfield — APARTMENT — Mamoe Realty Co., 60 Park Pl., Newark, will build 4 story, brick and steel, plain foundation, 200-2 Belleville Ave. $150,000. Work will be done by separate contracts. M. J. Nadel, 32 Hill St., Newark, archt. Noted June 30.

N. J. Camden—GARAGE—Pub. Serv. Electric & Gas Co., 437 High St., 1 story, brick, steel and rein.-con., plain foundation, 17th and Stevens Sts., to Pub. Serv. Production Co. 80 Park Pl., Newark. Archts. est. $150,000.

N. J., Elizabeth — DEPARTMENT STORE—M. Levy & Sons, 80 Broad St., general contract 1 story addition and 1 story extension, brick and steel, plain foundation, 8084 Broad St., to C. Flocken, 681 Newark Ave. Archts. est. $150,000. Noted June 30.

N. J., Irvington (br. Newark)—APARTMENT—Lark Holding Co & A. Metzel, 60 Park Pl., Newark, will build 4 story, brick and steel, plain foundation, 40-46 37th St., here. $150,000. Work will be done by separate contracts. Noted June 23.

N. J., Irvington (br. Newark)—APARTMENT—Arcade Holding Co., 870 Broad St., Newark, will build 4 story and basement, 80 x 120 ft., brick and steel, plain foundation, Camfield Pl. and Chancellor Ave. Work will be done by day labor. Kasoff & Flatt, 164 Market St., Newark, archts.

N. J., Newark—APARTMENT—Sbarglio & Gessuelli, 483 North 6th St., will build 4 story, 70 x 90 ft., brick and steel, plain foundation, 1st and Roseville Aves. $150,-000. Work will be done by separate contracts. J. Centanni, 142 Market St., archt.

Buildings—Commercial (Continued)

N. J., Newark—APARTMENT—J. M. Adelman & Son, and J. A. Pilar, 1377 Boulevard East, West New York, will build 5 story, brick and steel, plain foundation, Elizabeth and Pomona Aves. $200,000. Work will be done by separate contracts. N. Myers, 24 Walnut St., archt. Noted June 23.

N. J., Nutley (br. Newark) — APARTMENT—A. Eisenberg, 87 Schuyler Ave., Newark, will build 4 story, brick and steel, plain foundation, Chestnut St. west of Franklin Terrace, here. $150,000. Work will be done by separate contracts. N. Siegler, 164 Market St., Newark, archt. G and G Realty Co., 28 Branford Pl., Newark, former owner above project. Noted June 9.

N. J Plainfield—HOTEL—Park Hotel, West 7th St., general contract, etc. 5 story, brick and steel, plain foundation, West 7th St., to Wigton Abbott Corp., 552 West 23rd St., New York City. Archts. est. $160,000.

Steam heating, stone, brick, terra cotta, metal lath, flooring, pipe and waterproofing.

N. J., Union City—OFFICE—Hudson News, 708 Bergenline Ave., general contract 2 story, 100 x 125 ft., brick and steel, plain foundation, Bergenline Ave. and 36th St., to De Riso Bros., 50 East 42nd St., New York City. Archts. est. $150,000.

Pa., Phila. — APARTMENT — Brown & Sons, 145 Fairmount Ave., 4 story and basement, 46 x 77 ft., and 32 x 139 ft., brick and steel, plain foundation, 47th and Warrington Sts., to A. Brown, 145 Fairmount Ave.

Pa., Pittsburgh — APARTMENT—Morewood Gardens Co., c/o Marks & Kann, archts., Home Trust Bldg., general contract 7 story and basement, approximately 245 x 300 ft., brick, steel and stone, Morewood Ave., to W. T. Grange Co., Keenan Bldg. Archts. est. $1,400,000. This corrects report in June 23 issue.

Pa., Quakertown—HOSPITAL—Quakertown Hospital Assn., H. G. Kittleman, pres., 3 story and basement, 40 x 140 ft., rein.-con. and brick, plain foundation, 11th St. and Park Ave., to F. J. Schuler, Norristown. Noted June 19.

Ky., Lakeland—ASYLUM—State of Kentucky Bd. of Charities & Corrections, Lakeland, (1st unit) 50 x 99 ft. of 2 story and basement, 446 x 560 ft., rein.-con. and brick asylum, plain foundation, to H. Frank & Co., Anchorage, $44,750. Archts. total est. $1,000,000.

O., Cincinnati—THEATRE—J. M. Jackson, Mercantile Library Bldg., 3 story and basement, brick and rein.-con., plain foundation, Eastern Ave., to L. J. Mayfield, 1107 Bates St., $150,000. Noted June 9.

O., Cincinnati—WAREHOUSE — Wholesale Grocrey Co., 9th St. and Bway., 3 story and basement, brick and rein.-con., plain foundation, Pearl St., to Roos-Meyer-Hecht, Stanton Ave., $250,000.

O., Cleveland—APARTMENT—M. Margolin, 1489 East 106th St., 3 story and basement, 66 x 104 ft., brick, East 132nd St., to Winikur Bros., 9303 Pierpont Ave. Archts. est. $150,000. Noted June 23.

O., Cleveland—AUDITORIUM—City, W. R. Hopkins, city mgr., 5 story, basement and 2 wings, 125 x 208 ft. and 60 x 208 ft., steel, stone and concrete, East 6th St. and St. Clair Ave., to Hunkin-Conkey Constr. Co., Hunkin-Conkey Bldg., $1,749,000. Noted June 16.

O., Columbus—STORE—V. Loewer Furniture Co., 136 East Main St., general contract, 4 story and basement, 62½ x 187½ ft., brick and concrete, 60 East Main St., to R. H. Evans & Co., 8 East Long St., approximately $190,000. Noted June 16.

O., East Cleveland (br. Cleveland) — STORE and APARTMENT—A. Palevsky, 1450 East 105th St., Cleveland, 3 story and basement, 50 x 120 ft., brick, 14781 Euclid Ave., to J. Friedman, 366 East 134th St., Cleveland. Archts. est. $150,000. Noted Apr. 21.

Ind., Indianapolis—APARTMENT—F. R. Buck, 4422 Central Ave., general contract 6 story and basement, rein.-con. and brick, corner 15th and Pennsylvania Sts., to Foster Eng. & Serv. Co., 726 Knights of Pythias Bldg. Archts. est. $250,000.

Wis., Sheboygan—THEATRE—Universal Chain Theatrical Enterprises, 730 5th Ave., New York City, N. Y. 1 story, 90 x 170 ft., brick, here, to United Studios, Inc., 28 West Lake St., Chicago, Ill. Noted June 2.

Ia., Des Moines—NEWSPAPER—Meredith Publishing Co., 3 story, basement and sub. basement, 60 x 157 ft., rein.-con., brick and stone addition, to C. Weitz Sons, 713 Mulberry St., $169,800. Noted May 26.

Mo., Kansas City—APARTMENT—Kelley & Son, 6301 Walnut St., will build 5 story and basement, 97 x 104 ft., brick and rein.-con., 16 West 36th St., by day labor. $200,000. H. F. Almon, 1004 Orear Leslie Bldg., archt.

Mo., St. Charles—HOTEL—St. Charles Hotel Co., H. Willbrand, pres., general contract 4 story and basement, 70 x 115 ft., rein.-con., brick and terra cotta, 2nd and Washington Sts., to J. J. Wuellner, Oak and Frost Sts., Alton, Ill. Archts. est. approximately $150,000. Noted June 16.

Mo., St. Louis—THEATRE and STORE—St. Louis Amusement Co., 706 North Grand Blvd., 2 story and basement, 147 x 200 ft., rein.-con., brick, stone, steel and terra cotta, Easton and Hamilton Sts., to Boaz-Kiel Constr. Co., Ambassador Theatre Bldg. Archts. est. $750,000.

Wash., Seattle—STORE—A. Willatsen, archt., Lumber Exch. Bldg., 1 and 2 story, concrete, brick and steel addition, 2nd and Pike Sts., to C. C. Cawsey, Title & Trust Bldg., for McDougal & Southwick Co. $150,000. Noted May 26.

Calif., Los Angeles—APARTMENT—M. J. Pellissier, 697 South Serrano St., 6 story and basement, rein.-con., West 9th St., to Baruch Corp., Lincoln Bldg., $155,500.

Calif., Oakland—MEMORIAL—Alameda Co., constructing memorial building at Adams Point, to Schuler & Macdonald, 1723 Webster St., Oakland, $248,130.

Calif., San Bernardino—DEPARTMENT STORE—Harris Co., 3 story and basement, 127 x 206 ft., rein.-con., 3rd and E Sts., to G. Herz & Co., San Bernardino, $256,800.

Calif., San Francisco — THEATRE — Vision Realty Co., De Young Bldg., rein.-con. Noe and 24th Sts., to Macdonald & Kahn, Financial Center Bldg., approximately $165,000.

Buildings—Industrial

Proposed Work

Mass., Marblehead — REPAIR SHOP, STORE and SERVICE STATION—M. H. Lukens, 69 Washington St., plans 1 story, rein.-con. and stone, plain foundation, Washington St. $40,000. Engineer and architect not selected.

Mass., Waltham (Ind. br. Boston) — COLD STORAGE WAREHOUSE — J. P. Morrisey, 19 Massassoit St., plans rein.-con. and brick, Massassoit St. $40,000 or more. Engineer and architect not selected.

Conn., Hartford—SERVICE GARAGE—White Co., B. M. Holden, 750 Main St., having revised plans prepared and soon takes bids 1 story, 150 x 150 ft., brick and steel, Maple Ave. $100,000. Former bids rejected. Private plans.

N. Y., Hornell — SILK MILL — Huguet Silk Co., 188 Thatcher St., having plans prepared by Pierce & Bickford, 118 Lake St., Elmira, 1 story, 80 x 110 ft. addition.

N. C., Greensboro—FREIGHT STATION—Southern Ry. Co., B. Herman, ch. engr., 1300 Penn. Ave., Wash., D. C., having plans prepared by Fellheimer & Wagner, 155 East 42nd St., New York City, rein.-con., brick and steel addition, plain foundation, incl. store house, tracks, driveways, ramps, loading platforms, here.

O., Akron—FACTORY—General Tire & Rubber Co., 1708 East Market St., had plans prepared by Osborn Eng. Co., archts. and engrs., 7016 Euclid Ave., Cleveland, three 4 story and basement, brick and steel buildings, here.

O., Fostoria—FACTORY—Ohio Farmers Co-Operative Milk Assn., J. J. Prindle, pres., 3068 West 106th St., Cleveland, had plans prepared by Wright & Hohl, 4614 Prospect Ave., Cleveland, 1 story, brick and steel, here. $60,000.

Ill., Chicago—GENERATING STATION—Sanitary Dist. of Chicago, 910 South Michigan Ave., making plans steam driven electrical generating station, near here. $6,000,000. Private plans.

Tex., Edinburg—ICE PLANT and STORAGE—Pacific Fruit Exp. Co., c/o H. T. Whyte, 605 Commercial Bank Bldg., Houston, soon lets contract 100 ton capacity ice plant and storage house. $250,000. Private plans.

Tex., Houston—PUBLISHING PLANT—Houston Press having plans prepared by Howell & Thomas, 3866 Carnegie St., Cleveland, O., 5 story and basement, 150 x 200 ft., Chartres and St. Emanuel Sts. $300,000. Swank & Fisher, 403 Euclid Ave., Cleveland, O., engrs.

Tex., San Antonio—CASINGHEAD GAS PLANT—O. J. Berend, 2403 South Troost Ave., Tulsa, Okla., had plans prepared compression type, 7,000 g.p.d. casinghead gas plant, etc., here. $500,000. Private plans.

Tex., Sierra Blanca—POWER PLANT—El Paso Electric Co., c/o H. C. Webb, El Paso, having plans prepared power plant, here. $75,000. Private plans.

Calif., Oakland—CANNING PLANT—S "Buildings Commercial."

Ont., Newbury—PLANT—Quality Canners Ltd., Windsor, plans branch plant, here. $60,000.

Bids Desired

Me., Kittery—REPAIR GARAGE and SERVICE STATION—A. F. Cook taking bids 1 story, rein.-con., plain foundation. $40,000. Dow, Harlow & Kimball, 184 Boylston St., Boston, Mass., archts.

Mass., Quincy (Boston P. O.)—SHOP—See "Contracts Awarded."

Mass., Roxbury (Boston P. O.)—SHOP and WAREHOUSE—Depoli Mosaic Tile Co., 935 Massachusetts Ave., Boston, taking bids 1 story, 50 x 145 ft., rein.-con. and brick, plain foundation, Magazine St., here. $40,000 or more. D. M. Foster, 975 Massachusetts Ave., Boston, archt.

R. I., Providence—REPAIR and SERVICE GARAGE, etc.—July 8, by White Co., A. Hadlow, mgr., East 79th St. and St. Clair Ave., Cleveland, O., 2 story, 100 x 200 ft., rein.-con. and brick, plain foundation, Branch Ave. and Dryden Lane, here. $100,000. Private plans. Noted Apr. 28.

Conn., Greenwich—PRINTING PLANT—July 11, by W. Higginson, engr., 101 Park Ave., New York City, rein.-con. addition, concrete foundation, here, for Conde Nast Publications, Inc., 19 West 44th St., New York City. $75,000. Noted June 23.

N. Y., Rome—LAUNDRY—July 27, by Commissioner Mental Hygiene, Dept Mental Hygiene, Capitol, Albany, laundry extensions at State School for Mental Defectives, here. S. W. Jones, Capitol, Albany, archt.; adv. E. N.-R. July 7. Noted May 17.

Okla., Ponca City—POWER PLANT—July 14, by C. E. Norton, city clk., power plant building and equipment, incl. salt house, oil storage, cooling tower, etc., for City. $80,000. Burns & McDonnell, Interstate Bldg., Kansas City, Mo., engrs. Noted Aug. 12.

Calif., Long Beach—ASSEMBLY PLANT—July 15, by B. R. Brown, engr., Highland Park, Detroit, Mich., 1 story, 390 x 928 ft. main building, 2 story, 40 x 140 ft. office building, 2 story, 80 x 98 ft. warehouse, 62 x 114 ft. oil house, etc., all rein.-con., here, for Ford Motor Co., Highland Park, Detroit, Mich. $5,000,000. A. Kahn, Highland Park, Detroit, archt.

Calif., Manteca—SHOP—Clerk Manteca Union High School Dist., taking bids 1 story, 50 x 80 ft. shop, incl. farm mechanics dept., etc. Davis-Pearce Co., Builders Bldg., Stockton, archt.

Contracts Awarded

Mass., Boston—REPAIR and SERVICE GARAGE—S. S. Dean, 50 Congress St., 1 story, 100 x 150 ft., rein.-con. and steel, plain foundation, 290 North Beacon St., to Stefano Grande, 66 Upham St., Malden. Engrs. est. $50,000.

Mass., Boston—REPAIR and SERVICE GARAGE—M. M. Dwyer, 77 Linden St., 1 story, rein.-con. and brick, plain foundation, to Frankini Bros., 30 Mystic Ave., Medford Archts. est. $40,000.

Mass., Cambridge (br. Boston)—FACTORY—Daggett Chocolate Co., 408 Main St., 6 story, 100 x 165 ft., brick, plain foundation, 38-44 Ames St., to W. H. Bailey Co., 88 Broad St., Boston. Archts. est $152,000.

Mass., Quincy (Boston P. O.)—SHOP—R. A. Means, 115 Arborway Dr., East Braintree, will build 2 story, rein.-con. and brick, plain foundation, 41 Atlantic Ave. $40,000. Work will be done by separate contracts. Private plans.

Mass., Taunton — BAKESHOP — Dept Mental Diseases, State House, Boston, 2 story, brick, plain foundation, to W. H. Barker, 4 Cohannet St. Archts. est. $40,000. Noted June 9.

Mass., Westfield—REPAIR and SERVICE GARAGE and WAREHOUSE—MacCoullier Bros., 44 Broad St., 1 and 3 story and basement, rein.-con. and brick, plain foundation, Broad St., to P. J. Mahoney, 46 Orange St. Archts. est. $50,000.

Mass., Worcester—BOILER HOUSE, etc—Boston & Albany R.R., G. A. Kirley, ch. engr., South Station, Boston, 1 story, 50 x 50 ft., and 20 x 30 ft., brick, boiler house and compression room, plain foundation to J. F. Fitzgerald Constr. Co. 38 Chauncy St. Boston. Noted June 9.

Conn., Hartford — FACTORY — Arrow Electric Co., 103 Hawthorne St., 1 story, 62 x 500 ft., brick and steel, Capital St., to A. F. Peaslee, 15 Lewis St. Archts. est $125,000. Noted Aug. 19.

Conn., Milford—PLANT—Aircraft Corp. of America, J. H. Stelling, pres., 1 story, 150 x 350 ft., rein.-con. brick and steel,

Buildings—Industrial (Continued)

Laurel Beach Rd., to W. R. Muirhead & Son, 541 Maple St., Bridgeport, $120,500. Noted June 23.

N. J. Belleville (br. Newark) — FACTORY—Wallace & Tieran Co., 1 Mill Blvd., Newark, general contract 4 story, brick and steel addition, plain foundation, Mills St., here, to J. Sutherland, 133 South 15th St., Newark. Archts. est. $150,000.

Va., Richmond—CAKE and CRACKER FACTORY—Southern Biscuit Works, 501 East Byrd St., 7 story, brick, Meadow and Marshall Sts., to Wise Granite Constr. Co., Amer. Natl. Bank Bldg. Archts. est. $500,000 incl. equipment.

La., Hodge — PAPER MILL — Advance Bag & Paper Co., 301 Cong. St., Boston, Mass., will build rein.-con. paper and bag plant, here, by day labor $1,000,000. G. A. Ring, c/o owner, ch. engr.

S. & R.

Ky., Louisville—FACTORY—Bade-Cummings Mfg. Co., 3401 Jewell St., 1 story and basement, 50 x 350 ft. T-shaped, rein.-con. and brick, plain foundation, 31st and Jewel Sts., to A. Markham & Co., 423 South Floyd St., approximately $65,000.

O., Cleveland — FACTORY — Ohio Boxboard Co., C. W. Hackett, secy., 1390 East 30th St., 2 story, 60 x 120 ft., brick and steel addition, to L. Dautel & Son Co., 5710 Hough Ave. Archts. est. $75,000. Noted June 23.

O., Columbus — FACTORY — Columbus Auto Parts Co., 15 East Russell St., 2 story and basement, brick and concrete, 4th and Russell Sts., to E. H. Latham & Co., 447 Neilson St., approximately $40,000.

Ind., Lafayette—POULTRY—See "Buildings—Educational, Religious."

Ill. Chicago—FACTORY—Hills-McCanna Co., 2025 Elston Ave., general contract two 1 story, 60 x 200 ft., brick buildings, Western Ave. and Nelson St., to J. Hammond Co., 2234 Flournoy St. Noted Apr. 14.

Ill., Silvis—SHOP—Chicago, Rock Island & Pacific Ry., La Salle St. Sta. Chicago, C. A. Morse, ch. engr., altering and constructing 1 story brick and concrete additions to locomotive shops, here, to T. S. Leake Constr. Co., 608 South Dearborn St., Chicago. Engrs. est. $50,000.

Tex., Corpus Christi—WAREHOUSE——See "Unclassified."

Wash., Spokane — FREIGHT HOUSE, etc.—Northern Pacific R.R. Co., Ry. Exch. Bldg., St. Paul, Minn., general contract rein.-con. and brick freight house, sheds and fruit house, incl. facilities for freight handling, here, to E. J. Dunnigan, 1012 Blard Exch. Bldg., St. Paul, Minn. Archts. est. $300,000.

Calif., Delano—FACTORY—Delano Grape Products Co., (1st unit) 1 story, 36 x 180 ft. building, 51 x 51 ft. building, and 25 x 25 ft. tower, all brick and steel, 6 mi. northeast of here, to P. Magnuson, Delano, $80,000.

Buildings—Educational, Religious

Proposed Work

N. H., Manchester—DORMITORY—New Hampshire Industrial School having plans prepared by C. R. Whitcher, 814 Elm St., 3 story and basement, brick, plain foundation, North River Rd. $150,000.

Mass., Malden (Boston P. O.)—HIGH SCHOOL—City, A. J. Plummer, chn. com., having sketches made by Desmond & Lord, 1 Beacon St., Boston, and C. F. Springall, associated archt., 84 Sprague St., Junior High School, brick and stone, plain foundation, Pleasant St. $200,000.

Mass., Marblehead—CHURCH—Star of the Sea Roman Catholic Church, D. C. Riordon, 60 Gregory St., purchased site and plans brick and stone, plain foundation, Atlantic Ave. $160,000. Engineer and architect not selected.

Mass., New Bedford — SCHOOL — City, H. S. Winslow, chn. City Property Com., plans 3 story and basement, brick, plain foundation, Ashley Blvd. and Acushnet Ave. $200,000. Engineer and architect not selected.

Mass., Worcester — NURSES HOME — Hahnemann Hospital, 281 Lincoln St., plans brick and steel, Lincoln St. $150,000. Engineer and architect not selected.

Conn., Hartford — GYMNASIUM — Trustees Trinity College, R. B. Ogilby, pres., having preliminary plans prepared by Trowbridge & Livingston, 527-5th Ave., New York City, gymnasium, incl. large swimming pool.

Conn., Hartford—SCHOOL—City, H. U. Tuttle, chn., rejected bids June 14, 3 story, brick and steel, Vine St. $300,000. I. A. Allen, Jr., Inc., 100 Farmington Ave., archt. Noted June 9.

Conn., Hartford — TEMPLE — Congregation Beth Israel, c/o C. R. Greco, archt., 11 Beacon St., Boston, Mass., takes bids after July 6, 1 and 2 story and basement, brick and stone, plain foundation, Farmington Ave. To exceed $150,000. Noted Apr. 28.

Conn., New Haven—SCHOOL—Berkeley Divinity School, 403 Main St., Middletown, having preliminary sketches made by Delano & Aldrich, 126 East 38th St., New York City, 4 or 5 units, in contemplation removal of Berkeley Divinity School to New Haven, York Sq. $150,000 or more.

N. Y., Jamaica—LIBRARY—Bd. Trustees Queensboro Pub. Library had plans prepared by R. F. Schirmer & J. W. Schmidt, 1440 Bway., New York City, 3 story and basement, 101 x 156 ft., brick and steel, concrete foundation, Shelton Ave. and Parsons Blvd. $500,000.

N. J., Long Branch—CHURCH—R. Reilly, archt., 10 East 41st St., New York City, soon lets general contract 1 story and tower, 120 x 150 ft., brick and steel, plain foundation, here, for Church of Our Lady Star of the Sea. $150,000. Noted June 23.

N. J., Lyndhurst (br. Rutherford)—SCHOOL—Bd. Educ., Town Hall, plans brick and steel, plain foundation. $400,000. Engineer and architect not selected.

N. J., Millburn—SCHOOLS—Bd. Educ., Town Hall, having preliminary plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, two 2 story, brick and steel additions to Wyoming School, $300,000, and Short Hills School, $150,000. Noted June 23.

N. J., Rahway—SCHOOL—Bd. Educ., City Hall, having sketches made by F. F. Simons, 108 Emerson St., Carteret, 2 story, brick and steel, plain foundation. $150,000. Noted Dec. 23.

N. J., Summit — HIGH SCHOOL — Bd. Educ., 272 Morris Ave., having plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, 3 story, brick and steel addition, plain foundation. $200,000. Noted May 26.

N. J., Teaneck (mail West Englewood) —SCHOOL—Bd. Educ., Town Hall, plans 2 story, brick and steel, plain foundation, Vanderlinda Ave. and Grange Rd. $150,000. Engineer and architect not selected.

N. J., West New York (Ind. br. Weehawken) — HIGH SCHOOL — Bd. Educ., Municipal Bldg., having revised plans prepared by W. Mayer, Jr., 711 Bergenline Ave., West New York, and takes bids about July 6, completing 3rd story brick and steel high school, Park Ave. between 11th and 12th Sts. Noted June 9.

Pa., Meadville—CHURCH—First Methodist Episcopal Congregation having plans prepared by Nichlas & Roderick, 12227 Prospect Ave., Cleveland, O., 1 and 3 story and basement, irregular shaped, stone, Chestnut and Main Sts. $150,000.

Tex., Houston—COLLEGE—Bd. Educ., c/o H. L. Mills, 1600 Washington Ave., plans Junior College. $200,000. H. D. Payne, 1600 Washington Ave. archt.

Tex., Wichita Falls—CHURCH—Highland Heights Christian Congregation had plans prepared by Pate & Thompson, 1005 City Natl. Bank, church, Ave. H. $250,000.

Calif., South Pasadena—HIGH SCHOOL—South Pasadena Bd. Educ. having preliminary plans prepared by N. F. Marsh & Co., 1011 Bway. Central Bldg., Los Angeles, Noted Apr. 21.

Bids Desired

Mass., Boston—WOMEN'S HOME—Corp. of Womens Home Missionary Society of New England, c/o C. P. Hoyt archt., 8 Beacon St., taking bids altering and constructing 4 story and basement, brick and stone addition, plain foundation, 36-40 Hull St. $150,000.

Mass., Waltham (Ind. br. Boston)—CHURCH—See "Contracts Awarded."

Conn., Waterbury—SCHOOL—July 8, by St. Margarets School, 3 story and basement, 70 x 180 ft., brick, steel and stone, Bradleyville Rd. $300,000. R. H. Dana, Jr., 350 Madison Ave., New York City, archt. Noted May 26.

N. Y., Albany—COLLEGE—July 28, by Commissioner Educ., Dept. Educ., State Educ. Bldg., Albany, constructing Buildings A, B, and C, Conneting Corridors D, E and F, and tunnel, at New York State College for Teachers. S. W. Jones, Capitol, Albany, state archt.; adv. E. N.-R. July 7. Noted June 22.

N. Y., Corona—SCHOOL—July 19, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, general contract P. S. 14, Otis Ave. and Van Dorne St., Corona Heights, here, for Bd. Educ., 500 Park Ave., New York City.

N. J. Fords—CHURCH and SCHOOL—G. W. Brooks, archt., 158 Madison Ave., Perth Amboy, taking bids general contract 3 story, 60 x 100 ft., brick, steel and stone, plain foundation, for Our Lady of Peace Roman Catholic Church. $150,000. June 30.

Pa., New Castle—HIGH SCHOOL—July 19, by Bd. Educ. and A. L. Thayer, archt., Greer Bldg., Junior High School, 2 and 3 story and basement, brick, concrete, steel and stone. $650,000. Noted Dec. 16.

Tex., Wichita Falls — CHURCH — Highland Heights Christian Congregation, c/o P. H. Packard, pastor, receiving competitive bids 3 story and basement, 95 x 150 ft., rein.-con. and brick, plain foundation. $250,000. Pate & Thompson, 1005 City Natl. Bank Bldg., archts.

Calif., Los Angeles—CHURCH—Austin & Ashley, archts., Chamber of Commerce Bldg., taking bids rein.-con. 90 x 144 ft., with 80 ft. dome, West and Washington Blvd., for 1st United Presbyterian Church. $250,000.

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Buildings—Educational, Religious (Cont.)

Calif., Pomona—ACADEMY—P. K. Schabarum, archt., Equitable Bldg., Los Angeles, taking bids 2 story and basement, 150 x 275 ft., brick, incl. chapel quarters, dormitories, etc., here, for Academy of Holy Name. Noted Apr. 1.

Contracts Awarded

Vt., Burlington—CHURCH—Christ Science Church, 1 story and basement church, to W. M. Adams, Burlington. Archts. est. $150,000 or more.

Mass., Belmont—CHURCH—All Saints Church, c/o H. Chisholm & H. T. Underwood, archts., 46 Cornhill, Boston, altering and constructing 1 story and basement, granite addition, plain foundation, Common St., to S. Alcock, 50 Tyler Rd. Archts. est. $150,000. Noted June 16.

Mass., Fall River — SCHOOL — City, School Com., altering and constructing 2 story and basement, brick addition to Ferry Lane School, plain foundation, to Greany & Sherry, 827 Davol St. Archts. est. $150,000.

Mass., Manchester — HIGH SCHOOL — Town, R. C. Allen, chn. school com., 2 story and basement, brick and stone, plain foundation, to C. L. Crafts, 14 Pleasant St. Archts. est. $150,000 or more. Noted June 2.

Mass., New Bedford — CHURCH — First Baptist Church, Williams St., 2 story and basement, brick and stone, plain foundation, Williams St., to H. C. Bailey, South Dartmouth.

Mass., Newton (Ind. br. Boston)—LIBRARY — Plummer Memorial Library, c/o Smith & Walker, archts., 80 Boylston St., Boston, 1 story and basement, irregular shaped, brick and stone, plain foundation, Ash St., to Somers & Drisco, Park Sq. Bldg., Boston. Archts. est. $150,000.

Mass., Salem — CHURCH — First Unitarian Church, c/o Little & Browne, archt., 114 Federal St., Boston, altering and constructing 2 story and basement, brick and stone, plain foundation, here, to J. W. Ferris Co., Inc., Peabody, Archts. est. $150,000. Noted Nov. 11.

Mass., Somerset—SCHOOL—Town, F. H. Gardner, chn. school com., 2 story and basement, brick and stone, plain foundation, Wilbur and Wood Sts., to J. M. Darling, Jr. Co., 878 Main St., Fall River. Archts. est. $150,000. Noted May 26.

Mass., Springfield — HIGH SCHOOL — City, Z. E. Scott, supt. schools, Junior High School, 2 story and basement, brick and steel, to E. J. Pinney Co., Inc., 220 Dwight St., $217,976. Noted Mar. 24.

Mass., Waltham (Ind. br. Boston)—CHURCH—St. Charles Roman Catholic Church, P. J. Walsh, pastor, Taylor St., will build 1 story and basement, brick and stone, plain foundation. $150,000. Work will be done by separate contracts. J. E. Monaghan, 79 Milk St., Boston, archt.

Mass., Wellesley — HIGH SCHOOL — Town, L. J. Towne, chn. com., altering and constructing 2 story and basement, brick and stone addition to Alice Phillips School, plain foundation, to P. G. Dearmond & Son, 54 Wilkin St., Westboro. Archts. est. $150,000 or more.

Mass., Westford — SCHOOL — Town, School Bd., 2 story and basement, brick and stone, plain foundation, Forge Village Dist., to R. Clough, Chelmsford, Archts. est. $150,000.

Mass., Weymouth (Ind. br. Boston)—HIGH SCHOOL—Town, P. T. Pearson, supt. schools, 1 and 2 story and basement, brick addition to Pratt School, Pleasant St., and High School addition, Middle St., both plain foundations, to Clark & Smith, 13 Temple St., Quincy, Archts. est. $150,000 or more. Noted June 2.

R. I., Newport—GYMNASIUM—De La Salle Academy, A. Basilain, in charge, brick and steel, Bellevue Ave., to M. A. McCormick, Bellevue Ave. Archts. est. $175,000. Noted Apr. 28.

Conn., Simsbury — HIGH SCHOOL — Town, School Com., 2 story and basement, brick and steel addition, Main St., to Lawrence & Coe Constr. Co., 43 Farmington Ave., Hartford. Archts. est. $150,000. Noted June 16.

N. Y., Arcade—SCHOOL—Bd. Educ., 2 story, concrete and brick, plain foundation, to Lowman Constr. Co., 312 Railroad Ave., Elmira. Archts. est. $165,000.

N. Y., Hollis (mail Jamaica)—SCHOOL—Bd. Educ., 500 Park Ave., New York City, general contract P. S. 134, 109th Ave. from 203rd to 204th Sts., here, to Pstay & Fuhrman, Inc., 153 West 72nd St., New York City, $412,500. Noted June 9.

N. Y., New York—SCHOOL—Bd. Educ., 500 Park Ave., general contract P. S. 86, Reservoir Ave. and West 195th St., Bronx Boro, here, to Gibbs Rice Co., Inc., 606 1st Ave., $716,000; plumbing, to Endres & Hampton, Inc., Grand Central Terminal, $39,339; and heating, to H. Starkman & Bros., 333 East 81st St., $74,480. Grand total $829,819. Noted June 9.

N. J., Montclair—SCHOOL—Bd. Educ., 22 Valley Rd., general contract altering and constructing 2 story and basement, 36 x 190 ft., brick and steel addition, plain foundation, Maple Ave., to D. J. Cronin, 713 South Orange Ave., Newark, $115,811; heating, to G. Stewart, 270 South 20th St., Newark, $28,795.

Pa., Phila. — CHURCH — Most Precious Blood Parish, c/o J. P. Green, pastor, 28th and Diamond Sts., 2 story and basement, 81 x 129 ft., brick, stone and steel, plain foundation, to Murphy Quigley Co., 1518 Sansome St. Archts. est. $200,000.

Ind., Lafayette — TESTING LABORATORY, Etc.—Purdue University, constructing material testing laboratory, to C. L. Sanders, Portland, $92,581, poultry building, to R. Sollitt & Son, 303 Sherland Bldg., South Bend, $17,525; tunnel system and metallurgy laboratory, to A. E. Kemmer, Lafayette, $50,300 and $13,000 respectively. Grand total $173,406.

Calif., Moraga—COLLEGE—St. Marys College, Oakland, fourteen 1, 2 and 3 story, steel and rein.-con. buildings, to J. P. Brennan, 2233 California St., Berkeley, $1,750,000.

Que., Montreal — COLLEGE — Jesuit Fathers, 5 story, 64 x 320 ft., 160 x 172 ft., and 52 x 160 ft. stone and brick buildings, Cote St. Catherine Rd., to A. Deschamps, 117 Mayfair St., $2,000,000.

Federal Government Work

Proposed Work

Va., Alexandria—Repairing Pier—Spec. 5368—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans repairing and rebuilding pier at Naval Torpedo Assembly Plant, here.

D. C., Wash.—Power Plant Equipment—Spec. 5334—Bureau Yards & Docks, Navy Dept., plans equipment for power plant, incl. watersoftening plant, hot water storage heater, piping system, etc., at Naval Hospital, here.

Bids Desired

D. C., Wash.—Test Borings—July 8, by Treas. Dept., at office Supervising Archt., Wash., D. C., test borings on site of new building for Dept. of Commerce. Noted Feb. 17.

N. C., Ashville — Remodeling — July 25, by Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office and Court House, here.

Ill., Chicago—Engine, etc.—July 26, by Treas. Dept., at office Supervising Archt., Wash., D. C., engine generator, etc. at U. S. Post Office and Court House, here.

Minn., St. Paul—Remodeling—July 18, by Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office and Custom House, here.

Mo., St. Louis—Remodeling—July 27, by Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Marine Hospital, here.

Contracts Awarded

N. Y., Olcott—Pier—U. S. Engineer Office, Buffalo, constructing concrete superstructure on piers in harbor, here, to J. W. Ucci, $10,324. Noted May 26.

N. J., Lakehurst—Refrigerating Equipment—Spec. 5376—Bureau Yards & Docks, Navy Dept., Wash., D. C., refrigerating equipment and cold storage plant, at Naval Air Station, here, to Mack Machine Co., 1708 North Front St., Phila., Pa., $1,878 (90 days). Noted June 2.

Pa., Erie — Building, etc. — U. S. Coast Guard, constructing 2 story, frame building, launchway and bulkhead, etc., to Sessinghaus & Ostergaard, $37,377.

D. C., Anacostia (sta. Wash.)—Hangar Doors—Spec. 5361—Bureau Yards & Docks, Navy Dept., Wash., D. C., steel doors and new end walls for hangars at Naval Air Station, here, to Donnell-Zane Co., Woolworth Bldg., New York City, $16,905 (135 days). Noted May 26.

D. C., Anacostia (sta. Wash.)—Heating System — Spec. 5419 — Bureau Yards & Docks, Navy Dept., Wash., D. C., heating system, at hangar, here, to C. T. Crockett, 3614 Connecticut Ave., Wash., $3,444 (60 days).

S. C., Parris Island—Heating System—Spec. 5374—Bureau Yards & Docks, Navy Dept., Wash., D. C., steam heating system, at U. S. Marine Base, here, to Newport Contg. & Eng. Co., Law Bldg., Newport News, Va., $31,450 (120 days). Noted June 9.

S. C., Parris Island—Reservoir—Spec. 5402 and 5410—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete reservoir at Marine Barracks, here, to Donnell-Zane Co., Woolworth Bldg., New York City, $15,516 (135 days); and ash handling system to United Conveyor Corp., 800 Old Colony Bldg., Chicago, Ill., $4,758 (120 days). Noted May 26.

S. C., Parris Island—Turbo-Alternator—Spec. 535—Bureau Yards & Docks, Navy Dept., Wash., D. C., turbo-alternator at U. S. Marine Barracks, here, to M. H. Pagenhardt Co., 2130 Locust St., Phila., Pa. $23,841 (150 days). Noted May 26.

Fla., Marianna—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., constructing U. S. Post Office, here, to C. Weitz Sons, 713 Mulberry St., Des Moines, Ia., $95,548 (365 days). Noted May 12.

Fla., Miami Beach (br. Miami)—Jetty—U. S. Engineer Office, Jacksonville, repairing north jetty and revetment, here, to De Rocher & Watkins Towing Co., Inc., Miami, $30,480. Noted May 26.

La., Carville—Boiler—Treas. Dept., at office Supervising Archt., Wash., D. C., new boiler, here, to Fort Dodge Boiler Wks., Des Moines, Ia., $5,493. Noted June 9.

Va., Norfolk — Dredging — Spec. 5346 — Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging at Naval Operating Base and Navy Yard, here, to Norfolk Dredging Co., Box 494, $109,500. Noted June 16.

Va., Norfolk—Road—Spec. 5400—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete road at Naval Hospital, here, to Stewart-Silvester, P. O. Box 535, Portsmouth, $11,355 (120 days). Noted May 26.

O., Dayton — Dynamometer Building — Constructing Quartermaster, Wright Field, constructing dynamometer laboratory building, on Wright Field, here, to C. H. Shook, Inc., Dayton, $175,000. Noted June 16.

Mich., Frankfort — Breakwater — U. S. Engineer Office, Milwaukee, Wis., constructing 1,188 lin.ft. south breakwater and 1,400 lin.ft. south shore connections, in harbor, here, to Greiling Eng. Co., Green Bay, Wis., $339,356. Noted May 12.

Mo., Kansas City — Reroofing — Treas. Dept. at office Supervising Archt., Wash., D. C., reroofing work at U. S. Post Office, here, to L. Van Dorp & Son, 509 Jackson St., Topeka, $10,812 (60 days). Noted June 9.

Mo., Westalton—Revetment—U. S. Engineer Office, 707 Postal Telegraph Bldg., Kansas City, 6,000 lin.ft. standard revetment in Missouri River at Amazon Bend, about 6 mi. southeast of here, to Kansas City Bridge Co., 510 Orear-Leslie Bldg., Kansas City, at $22.05 per lin.ft. Noted June 9.

Washington — Canal — Bureau Reclamation, Ellensburg, constructing Kittitas Div. Main Canal, etc., Yakima Project, Schedule 1, to Barnard-Curtis Co., 504 Globe Bldg., Minneapolis, Minn., $170,483; Schedule 2, to Dearborn Constr. Co., San Francisco, Calif., $481,004; Schedule 13 to Rumsey & Jordan, Seattle, $105,302; and Schedule 12, to E. A. Webster & Co., Hutton Bldg., Spokane, $309,569. Grand total $1,066,358. Noted Apr. 28.

Wash., Seattle—Dredging—U. S. Engineer Office, dredging in Olympia harbor, to Puget Sound Bridge & Dredging Co., Central Bldg., Seattle, $26,040.

Oregon—Road—C. H. Purcell, dist. engr. Bureau Pub. Rds., New Post Office Bldg., Portland, grading, etc. 5.1 mi. John day-Pilot Rock Project, Grant Co., to J. A. Terteling & Son, Moscow, Idaho, $24,070. Engrs. est. $28,000.

Oregon—Road—C. H. Purcell, dist. engr. Bureau Pub. Rds., New Post Office Bldg., Portland, June 24, grading, etc. M. Rood-Wapanitia Sect. Wasco Natl. Highway, Wasco Co., to Baker & Schorsschuisdt, 333 Oak St., Portland, $20,994. Engrs. est. $26,400.

California—Bridge—Bureau Pub. Rds., San Francisco, Trinity River Bridge, 200 ft. steel truss on concrete piers, to R. B. McKenzie, Gerber, $64,386.

Calif., San Diego—Heating System, etc.—Spec. 5382 and 5385 — Bureau Yards & Docks, Navy Dept., Wash., D. C., steam heating system, etc. at Naval Operating Base, here, to Herman Lawson Co., 465 Tehama St., San Francisco, $46,647 (150 days); and alterations to boiler house, to M. H. Golden, 3612 Texas St., $3,750 (90 days). Noted June 9.

Cuba, Guantanamo — Barracks — Spec. 5383—Bureau Yards & Docks, Navy Dept., Wash., D. C., barracks at Naval Station, here, to Donnell-Zane Co., Woolworth Bldg., New York City, $13,828 (180 days). Noted May 26.

Unclassified

Proposed Work

Playground—Boston, Mass.—City, Dept. Pub. Wks., plans new public playground in West End Dist. $250,000 voted for same. J. H. Sullivan, comr.

Bulkhead — New Bedford, Mass. — City, Eng. Dept., having plans prepared bulkhead, timber, piling, rip rap, Clarks Cove. $25,000. G. H. Nye, city engr.

Coal Shed, etc. — Taunton, Mass. — Staples Coal Co., 55 Taunton Green, plans coal storage shed, silos and trestle, Taunton Green. $25,000. Engineer not selected.

Swimming Pool, etc.—Kansas City, Mo.—See "Buildings—Commercial."

Underpass — Waycross, Ga. — City and Atlantic Coast Line R.R., J. E. Willoughby, ch. engr., Wilmington, N. C., plan underpass at Lee St. W. B. Stovall, city mgr.

Aviation Field—Nashville, Tenn.—City Council appropriated $40,000, grading and equipping aviation field in West Nashville. H. E. Howse, mayor.

Elimination Grade Crossing—Louisville, Ky. — Kentucky & Indiana Terminal Ry. Co., Louisville, W. S. Campbell, mgr. and ch. engr., plans elimination grade crossings by constructing bridges, tunnels, etc. Fellheimer & Wagner, 155 East 42nd St., New York City, engrs. and archts.

Golf Course, etc. — Hudson, O. — S. H. Kleinman Realty Co., East 199th St. and Lake Shore Blvd., having plans prepared by Amer. Park Builders, 201 East Ontario St., Chicago, Ill., 18 hole golf course, artificial lake and dam (earth and concrete bulkhead), here. $200,000.

Gas Mains—Indianapolis, Ind.—Citizens Gas Co., 47 South Penn. St., W. Kirk, vice-pres., plans 3 mi. 16- to 20-in. trunk mains in various streets. $400,000.

Subway — Ames, Ia. — City, Chicago & Northwestern R.R. Co., West Jackson and Franklin Sts., Chicago, Ill., W. J. Towne, ch. engr., and Ft. Dodge, Des Moines & Southern R.R. Co., Boone, R. L. Cooper, ch. engr., making preliminary plans rein.-con. subway under railroad tracks at 6th St. and Russell Ave. $53,000.

Hockey Rink, Swimming Pool, etc. — Kansas City, Mo.—See "Buildings—Commercial."

Pipe Line—Texas—Lehman & Van Bebber, Brady, making preliminary plans 2 mi. 6- to 8-in. mains from oil wells in northwestern part McCulloch Co. to Frisco tracks near Brady. $35,000. Private plans.

Transmission Lines — Texas — Oil Belt Power Co., c/o J. E. Lewis, vice pres., Eastland, making plans 265 mi. high lines radiating from company power plant point 3 mi. south of Eastland. $300,000 funds available. Private plans.

Transmission Line—Texas—West Texas Utilities Co., Abilene, making plans 150 mi. transmission line from San Angelo to Crane Co., supplying power to Mertzon, Sherwood, Bernhart, Big Lake, etc., also steam turbine generating plant about 20 mi. from San Angelo $2,000,000. Private plans.

Hangar—Beaumont, Tex.—A. R. Hazard & R. Maverick, making plans hangar and tool shop. $60,000 incl. machinery. Private plans.

Gas Distributing System — Clarendon, Tex.—A. J. Hardendorf, making surveys natural gas distributing system for City. $75,000. J. Rady, Clarendon, engr.

Natural Gas System—Dalhart, Tex.—A. D. Morton, Bartlesville, Okla., plans natural gas distributing system, 2- to 8-in. pipe, here. $60,000. Address S. Brown, Dalhart, representative of owner.

Oil Pipe Line—Dumas, Tex.—Prairie Pipe Line Co. making plans 25 mi. 4 in. oil pipe line from Southwestern Hutchinson Co. from Marchant Pool. $100,000. Private plans.

Wharves and Shed — Houston, Tex. — Navigation Dist., c/o R. S. Sterling, Court House, having plans prepared rein.-con. shed and Wharfs 14 and 15, 1 story; 500 ft. built up roof, 960 ft. long, Turning Basin. $550,000. Engineer and architect not announced.

Lighting System—Marfa, Tex.—Central Power & Light Co., c/o Frost Bldg., San Antonio, soon takes bids rebuilding lighting system. $30,000 incl. machinery. Private plans.

Causeway — Point Isabel, Tex. — S. Robertson making plans 1½ mi. timber and concrete causeway connecting mainland at Point Isabel with Clark's and Brazos Islands. $75,000. Private plans.

Causeway—Port Arthur, Tex.—Sabine Developers, Inc., c/o H. L. McKee, 2735 Proctor St., made plans and soon takes bids 6 mi. causeway, 40 ft. roadway, sidewalks, 15 ft. elevation, across Sabine Lake from Port Arthur pleasure pier to Cameron Parish, La. 3 mi. on Texas side will be earthen dump with graveled or shelled surface, 3 mi. concrete in Louisiana, 60 ft. span lift bridge at center of causeway for lake craft. $1,500,000. Private plans.

Land Development—San Antonio, Tex.—D. Yates c/o Frost Bldg., making plans developing 56 acre land fronting on Vance-Jackson Rd., Bexar Co., incl. paving $30,000, waterworks $20,000, etc. Private plans.

Transmission Line — Oklahoma — Oklahoma Gas & Electric Co., Insurance Bldg., Oklahoma City, made preliminary plans 17 mi. 33,000 volt electric transmission line from Konowa to Macomb. $30,000. Byllesby Eng. Co., 231 South La Salle St., Chicago, Ill., engrs.

Transmission Line — Oklahoma — Oklahoma Gas & Electric Co., Insurance Bldg., Oklahoma City, plans 66,000 volt transmission line from Drumwright to Chandler. $40,000. Byllesby Eng. Co., 231 South La Salle St., Chicago, Ill., engrs.

Transmission Line and Distribution System—Oklahoma—Southwest Light & Power Co., Braniff Bldg., Oklahoma City, plans 18 mi. 33,000 volt transmission line to Sayre, and distribution system in Erick. $45,000.

Bids Desired

Turbine Room—East Walpole, Mass.—Bird & Sons, Inc. taking bids 1 story, concrete and steel turbine room extension. Private plans.

Foundation, etc.—Haverhill, Mass.—City, F. D. McGregor, mayor, taking bids 45 x 80 ft. concrete foundation for fire station, also 42 x 200 ft. retaining walls. $90,000. Morse & Dickinson, 11 Beacon St., Boston, engrs. Noted Jan. 13, under "Buildings—Commercial."

Automatic Fire Sprinklers—Binghamton, N. Y.—July 27, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, automatic fire sprinklers at Binghamton State Hospital, here; adv. E. N.-R. July 7. Noted June 23.

Electrical Work—Newark, N. Y.—July 27, by Commissioner of Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, constructing electrical work in Building "A," etc., at State School for Mental Defectives, here; adv. E. N.-R. July 7.

Shed—New York, N. Y.—July 14, by M. Cosgrove, comr. Docks, Pier "A," foot Battery Pl., North River, shed on East 139th and 140th Sts. Dump on Harlem River, (Contr. 1852-C).

Subway—Phila., Pa.—July 19, by H. E. Ehlers, dir., 1211 Chestnut St., constructing approximately 3,020 lin.ft. South Broad Street Subway, Contr. 109; adv. E. N.-R. June 30 and July 7.

Power and Light Extensions, etc.—Batesville, Ark.—See "Contracts Awarded."

Grain Terminal—St. Paul, Minn.—July 12, by A. E. Eggert, city purch. agt., grain terminal, incl. facilities for loading bulk and sacked grain, also incline trestle type cradle and wharf barge, trackage, etc. on Mississippi River levee near Chestnut St. $150,000. G. M. Shepard, city engr.

Transmission Line—Texas—See "Contracts Awarded."

Land Development—Odessa, Tex.—Wink Townsite Co., Inc., c/o J. T. Cross, pres., taking bids developing 650 acres land into new townsite, incl. waterworks $35,000, sewers $40,000, and paving $75,000, approximately 10 mi. from here. Private plans.

Ramp and Loading Stations, etc.—Portland, Ore.—See "Bridges."

Contracts Awarded

Wharf—Boston, Mass.—Central Wharf Co., 37 Central Wharf, for 36 Central Wharf, timber, to L. D. Willcutt & Sons, 146 Summer St. Engrs. est. $25,000.

Comfort Station—Lynn, Mass.—Bd. Park Comrs., A. T. Comstock, chn., concrete comfort station, Strawberry Ave., to P. Barker, 13 Arlington St. Engrs. est. $25,000. Noted June 30.

Heating, Ventilating, etc. — Kingston, R. I.—Bd. Educ., State House, Providence, heating and ventilating in engineering building, College Grounds, to Files Eng. Co., 131 Bourn St., Providence, $19,248. Engrs. est. $25,000. Noted June 9.

Fences—Providence, R. I.—Water Supply Bd., 23 mi. Knox type wire fence, concrete posts about Scituate Reservoir, to R. A. Bergeson, 41 Baxter St., Woonsocket, $66,491. Noted June 9.

Athletic Field—East Orange, N. J.—Bd. Recreation, City Hall, grading, cinder track, house, etc., here, to Potterton Hayes & Smith, 215 West 28th St., New York City. Engrs. est. $25,000.

Bath House—Phila., Pa.—Stewardson & Page, archts., 315 South 15th St., 2 story and basement, 52 x 53 ft., rein.-con. and brick, plain foundation, 1808-14 East Hazzard St., to Townsend, Schroeder & Wood, Drexel Bldg., for Public Bath Assn. of Phila., 718 Wood St. Noted June 16.

Stadium — Huntington, W. Va. — Park Comn., (1st unit) concrete and steel stadium Charleston Ave. and 15th St., to Rust Eng. Co., 311 Ross St., Pittsburgh, Pa., $90,000. Noted Mar. 24.

Sand Bins, Sand Dryer and Compressor House—Mendenhall, Miss.—Gulf & Ship Island R.R. Co., c/o Illinois Central R.R. Co., 135 East 11th Pl., Chicago, Ill., elevated steel dry sand bins, sand dryer and compressor house, cinder pits, also sewer and water facilities, etc., here, to Zitterell-Mills Co., Webster City, Ia.

Coal Dock—Cincinnati, O.—Cleveland, Cincinnati, Chicago & St. Louis R.R., H. Baldwin, ch. engr., 230 East 9th St., 1 story coal dock, rein.-con., plain foundation, Hillside Ave., to Ogle Constr. Co., 28 East Jackson St., Chicago, Ill., $40,000.

Coal Mine Tipple — Harrisburg, Ill. — O'Gara Coal Co., 310 South Michigan Ave., Chicago, 4 track tipple and facilities for screening, picking and refuse disposal for 3,000 ton capacity per day, also four bin rescreener making sizes under 2 in. and facilities handling any commercial size coal for local trade, truck loading, steel and concrete, to Allen & Garcia Co., 21 East Van Buren St., Chicago; 300 tons structural steel, to Continental Bridge Co., 53 West Jackson Blvd., Chicago.

Culvert—Iowa—See "Bridges."

Power and Light Extensions etc.—Batesville, Ark.—Arkansas Power & Light Co., Pine Bluff, will extend 110 kv. system to here, large transformer station, extend electric distribution system to industries adjacent to Batesville, also extensions and replacements for water and light distribution systems here, by own forces. $750,000. Noted June 23.

Coaling Station — Bonne Terre, Mo. — Mississippi River & Bonne H. Schanti, ch. engr., 200 ton rein.-con. automatic electric conveyor type coaling station, here, to Fairbanks, Morse & Co., 900 South Wabash Ave., Chicago, Ill.

Transmission Line—Texas—Texas Electric Serv. Co. will build 100 mi. transmission line between Wichita Falls and Burkburnett, by day labor. $275,000. Private plans.

Transfer Shed, etc.—Corpus Christi, Tex.—Nueces Co. Navigation Dist., concrete, brick and steel addition to transfer sheds and warehouse, to Sumner Sollitt Co., c/o Natl. Bank of Commerce Bldg., San Antonio, $102,000.

Materials

Proposed Work

Pipe—Santa Cruz, Calif.—R. S. Tait, city water supt., plans purchasing 1,000 ft. 10 in. water pipe. J. K. James, city engr.

Bids Desired

Granite Blocks—New York, N. Y.—July 13, by J. Miller, pres. Manhattan Boro. Municipal Bldg., 50,000 special 5 in. granite paving blocks.

Frogs, Switches, etc.—Phila., Pa.—July 11, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., frogs, switches, crossings, gauge rods, etc., Contr. 86-1927.

Pipe—Cleveland, O.—July 8, by City, 100 tons ⅝ in. and 10 tons 1 in. lead pipe, also 835 tons 3- to 60-in. c.i. pipe.

Lighting Posts and Cable — Cushing, Okla.—City in market 200 "White Way" lighting posts and 19,000 ft. armored cable. L. A. Crenshaw, mayor.

Bids Received

Ties and Timber—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., July 1, supply untreated ties and timber for use in constructing 14th St.—Eastern Line (Order 18), from R. D. Walker Lumber Co., 1st Natl. Bank Bldg., Mobile, Ala., $4,767. Noted June 23.

See proposal advertising on page 160

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Unit Price Lists Published in June, 1927

		Issue of
Borings	New York, N. Y.	June 9
Bridge	Florida	June 2
Bridge	Pittsburgh, Pa.	June 2
Bridge	Montana	June 16
Bridge	Akron, Ohio	June 23
Bridge	Washington	June 23
Bridge	Akron, Ohio	June 30
Conduit	Syracuse, N. Y.	June 2
Conduit	Syracuse, N. Y.	June 9
Elevated Railroad	New York, N. Y.	June 16
Pipe Line	Okmulgee, Okla	June 2
Power Plant	Fremont, Neb	June 13
Reservoir	Mansfield, Ohio	June 13
Road	Montana	June 2
Road	Florida	June 2
Road	Cincinnati, Ohio	June 9
Road	Akron, Ohio	June 16
Road	Florida	June 16
Sewers	Paducah, Ky	June 2
Sewers	San Jose, Calif	June 9
Sewers	Amarillo, Tex	June 23
Signal Towers	Brooklyn, N. Y.	June 30
Street Improvements	Los Angeles, Calif.	June 16
Street Improvements	Knoxville, Tenn	June 30
Tunnel	Rutland, Mass	June 23
Tunnel	Detroit, Mich	June 23
Water-Works Improvements	Elkhart, Ind	June 2
Water System	Akron, N. Y	June 9

Steel castings in connection with laying 11,505 ft. of 42-in. pipe for the Board of Water Commissioners of Detroit were estimated to cost 20 to 50 cents per lb. for 9,700 lb. The prevailing price was 25 cents. For c.-i. castings the bids ranged from 10 to 20 cents, with six of the eleven contractors bidding 10 cents.

Creosoted wood piling $1 to $1.50 per lin.ft. for 1,620 ft. in bridge job in Kansas for the state highway department. There were seven bids, averaging $1.25; the engineer's estimate was $1.05.

Maintenance Costs of Various Types of Roads

Type of Pavement	Miles maintained excluding change to more permanent type.	—Cost per Mile— Excluding change to more durable type.	Pavement only excluding change to more durable type.	Other than pavement
Bit. mac. penetration-asphalt	3560.36	926	$623	$303
Bit. mac. penetration tar binder	276.71	1,033	565	468
Bit. mac. penetration A conc. base	46.47	401	477	224
• Bit. mac. penetration T conc. base	26.63	333	203	130
Waterbound macadam	2184.72	1,059	776	283
Conc. 1st cl. 1-2-4 mix or better	2557.27	487	284	203
Conc. 2nd cl.	137.05	1,044	744	300
Conc. Hassam	16.47	1,220	806	414
Brick pavement	257.45	730	493	237
Gravel	122.00	888	662	226
Topeka, concrete base	85.80	727	523	204
Topeka, macadam base	69.47	1,229	646	583
Amiesite, concrete base	6.42	674	459	215
Amiesite, macadam base	5.55	123	112	11
Open mix conc. base (inc. cold patch)	26.61	353	166	187
Open mix mac. base (inc. cold patch)	11.62	336	235	101
Bit. conc. base	14.95	553	511	42
Warrenite bit. conc. base	5.62	190	59	131
Willite conc. base	4.87	682	617	65
Bitoslag conc. base	2.31	728	550	178
Asphaltic conc.-concrete base	1.55	159	28	131
Gravel mix-gravel base	5.05	560	466	94
Henderson-macadam base	0.51	61	610	....
Asphalt block	17.65	1,604	1,351	253
Asphalt block mac. base	2.12	1,479	1,417	62
Wood block	0.52	34	34	0
Stone block	3.66	1,121	829	292
Brick cubes, mac. base	....	....	....	
Sub-base bituminous	6.55	679	375	304
Bit. mac. layer method	7.29	1,146	537	609
Kentucky rock asphalt	14.53	663	613	50
Rocmae	0.15	2,260	2,260	....
3 strip dual (1st cl. conc. and bit. mac.)	73.57	534	309	225
2 strip dual (1st cl. conc. and W.B. and bit. mac.)	2.07	225	142	83
2 strip dual (brick and W. B. mac.)	0.48	698	663	235
2 strip dual (brick and earth)	12.79	326	236	90
2 strip dual conc. and earth	15.34	250	107	143
2 strip dual 1st cl. conc. and bit. mac	3.85	1,198	814	384
3 strip dual conc. and W. B. mac	2.19	337	170	167
2 strip dual conc. and gravel	0.70	439	439	....
2 strip dual brick and bit. mac	5.78	4,342	4,102	240
2 strip dual brick and conc	6.49	794	716	78
2 strip dual brick and conc	3.93	767	630	137
3 strip dual brick and bit conc	1.59	145	145	....
• Earth	3.01	98	98	....
Average		830	$559	$271

Engineering News-Record Issue of July 7, 1927

Bridge—New York-New Jersey

Bids were opened by Port of New York Authority, 75 West St., Apr. 11, for Contract HRB-2, New Jersey tower foundation for Fort Washington-Fort Lee Bridge, open cofferdam method, from (A) Silas B. Mason, 17 West 60th St., (awarded contract); (B) Ground Construction Corp. of Delaware; (C) Triest Contracting Co.; (D) Underpinning & Foundation Co.; (E) The Foundation Co.; (F) Cornell Contracting Corporation. The unit bids are as follows:

	A	B	C	D	E	F
Open cofferdams in place (lump sum)	$580,000.00	$582,000.00	$990,000.00	$500,000.00	$1,128,000.00	$1,218,000.00
65,000 bbl. cement	2.40	3.00	1.60	4.00	3.50	3.50
22,300 cu.yd. foundation work between elevations—15.0 and—50.0	6.00	6.00	13.00	27.00	7.50	12.00
2,000 cu.yd. rock excavation between elevations—15.0 and—50.0	8.00	10.00	20.00	13.00	20.00	22.00
4,200 cu.yd. foundation work between elevations—50.0 and—60.0	6.00	6.50	13.00	27.00	8.00	12.00
2,400 cu.yd. rock excavation between elevations—50.0 and—60.0	8.00	20.00	20.00	13.00	20.00	22.00
1,600 cu.yd. foundation work between elevations—60.0 and — 70.0	6.00	7.00	13.00	27.00	10.00	12.00
1,200 cu.yd. rock excavation between elevations—60.0 and — 70.0	8.00	22.00	20.00	18.00	20.00	22.00
500 cu.yd. foundation work between elevations—70.0 and—80.0	6.00	7.50	13.00	27.00	25.00	12.00
400 cu.yd. rock excavation between elevations—70.0 and—80.0	12.00	30.00	20.00	20.00	30.00	22.00
200 cu.yd. foundation work below elevation—80.0	6.00	25.00	13.00	27.00	40.00	12.00
150 cu.yd. rock excavation below elevation—80.0	12.00	50.00	20.00	23.00	50.00	22.00
13,400 cu.yd. concrete or cyclopean masonry in tower bases	6.00	6.00	11.00	10.00	7.50	12.00
1,460 cu.yd. granite facing	45.00	40.00	40.00	40.00	41.00	80.00
1,460 cu.yd. laying granite facing	15.00	22.00	30.00	20.00	25.00	20.00
800,000 lb. reinforcement	.04	.05	.05	.06	.08	.075
Totals	$1,160,200	$1,282,870	$1,881,000	$1,897,450	$1,985,210	$2,923,200

Engineering News-Record, Issue of July 7, 1927

UNIT PRICES *continued on page 12a*

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Coach plant, Pontiac, Mich., Yellow Truck & Coach Mfg. Co., plans, $8,000,000.

Club, Cleveland, O., Town & Country Club Co., having plans prepared, $3,000,000.

Paving Ft. Myers, Fla., making plans, $2,000,000.

Passenger station Phila., Pa., Phila. & Reading R.R. Co., having plans prepared, $2,000,000.

Apartment, Chicago, Ill., W. O. Bannerman & Co., having sketches made, $1,500,000.

Apartment, Jersey City, N. J., D. Lerner had plans prepared, $1,500,000.

School, Glendale, Calif., Glendale Union High School Dist., voted bonds, $1,400,000.

Hotel, Harlingen, Tex., Syndicate, plans, $1,200,000.

School, Vancouver, B. C., soon takes bids, $1,135,000.

School, etc., Rock Island, Ill., Bd. Educ., having preliminary plans prepared, $1,000,000.

Waterworks, Eugene, Ore., making plans, $1,000,000.

Hotel, Rockford, Ill., Rockford Hotel Co., had plans prepared and takes bids about Aug. 1, $1,000,000.

Loft, Phila., Pa., B. F. Cohn, having plans prepared, $1,000,000.

Bids Desired

Loft, Phila., Pa., July 18, by Manufacturing Realty Building Co., $1,500,000.

Theatre, Louisville, Ky. July 20, by Theatre Realty Corp., $1,000,000.

Bids Received

Hospital, Detroit, Mich., H. A. I. Andres, secy. Dept. Health, from W. E. Wood Co., $2,378,200.

Contracts Awarded

Hotel, Baltimore, Md., Lord Baltimore Hotel, to Consolidated Eng. Co., $6,000,000.

Pipe line, Texas, Empire Companies to Acme Foundry and Machine Co., Coffeyville, Kan., $3,000,000.

Hotel, Los Angeles, Calif., Local Syndicate to A. S. O'Neil, $1,500,000.

City Hall Phila., Pa., Dept. Pub. Wks., general contract to F. W. Mark Co., and others totaling $1,306,938.

Hospital, etc., Cleveland, O., Charity Hospital to Lundorff-Bicknell Co., $1,200,000.

News of the Week

Waterworks

Proposed Work

Conn., Hartford — Hartford Water Bd., 1026 Main St., plans emergency reservoir. $250,000. C. M. Saville, 1026 Main St., engr.

N. J., Denville—Township plans water works and reservoir. $225,000.

Ind., Indianapolis — Indianapolis Water Co., F. C. Jordan, secy., plans new 12 in. c.i. mains, 300 tons pipe for new extensions, 200 hydrants, two 500 hp. boilers, and 4 elevated reservoirs, each 1,500,000 gal. capacity. $550,000.

Ill., Grayville—Making preliminary plans new well supply in Wabash River bottoms, also pumping equipment, distribution lines, etc. Caldwell Eng. Co., 36 North Side Sq., Jacksonville, engrs.

Okla., Bessie—Making surveys new waterworks. $30,000. E. W. Gantt, 1116 West Main St., Oklahoma City, engrs.

Okla., Laverne—Plans complete waterworks. $25,000. C. A. Woods, Stillwater, engr.

Okla., Mangum—Making plans and surveys waterworks extensions. To exceed $15,000. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Quinlan—Making plans complete waterworks. $35,000. C. A. Wood, Stillwater, engr.

Ore., Eugene—Making plans improving and extending waterworks. To exceed $1,000,000 W. C. Clubb, Court House, engr.

Bids Desired

R. I., North Tiverton (mail Tiverton)—July 20, by Town, waterworks in various streets. $15,000 or more. Private plans.

Conn., Hartford—Water Bd., 1026 Main St., taking bids 3 mi. 42 in. pipe line between Reservoirs 5 and 6. $300,000. C. M. Saville, 1026 Main St., engr. Noted May 5.

O., Toronto — July 26, at office Toronto Water Works, 500 meters for 125 lb. water pressure.

O., Crooksville—July 15, by Village, C. L. Dean, clk., waterworks. $100,000. Asire & Moore, South Bend, Ind., engr.

Ill., Chicago—July 19, by City, Room 207, City Hall, water service pipes in 12 various streets and avenues. M. J. Faherty, pres. Bd. Local Impvts.

Wis., Milltown—July 19, by City, A. N. Lystrup, city clk., constructing pump house and furnishing deep well equipment. Druar & Milinowski, 500 Globe Bldg., St. Paul, Minn., engrs. Noted June 2.

Kan., Buhler—Taking bids deep wells, also quotations (by mail) pumping equipment. $30,000 bonds voted for same. F. E. Devlin, 614 Bitting Bldg., Wichita, engrs.

Calif., Beverly Hills—Taking bids part 1 and 2 story, 200 x 280 ft., rein.-con. aeration plant as part of water system, here. $200,000. W. Thomas, archt., and Salisbury, Bradshaw & Taylor, engrs., both 745 Petroleum Securities Bldg., Los Angeles. Noted May 5, under Unclassified.

Contracts Awarded

N. J., Newark—North Jersey Dist. Water Supply Comn., 24 Commerce St., relocating Ringwood Mines Pumping Station, Ringwood Boro, Passaic Co., Contr. 17, to Arnold-More, Inc., 45 Clinton St., $13,500.

O., Cleveland — Dept. Pub. Welfare, Columbus, J. E. Harper, dir., laying 200 ft. 6 in. c.i. water pipe, etc. in Hawthornden Farm State Hospital, here, to Huffman-Wolfe Co., 40 West Broad St., Columbus, $29,275.

Mich., Detroit—Secretary Detroit Water Bd., 176 East Jefferson Ave., 38,150 ft. 6- to 16-in. c.i. mains, 68 gate wells, etc. in various streets, to V. Fintozzi, 3065 Humboldt Ave., Detroit, $23,377; 44,968 ft. 6- to 16-in. c.i. pipe, 88 gate wells, etc., to Contg. & Eng. Co., 603 Morgan Bldg., $28,907. Water Bd. will supply pipe. Noted June 2.

> *THESE reports are grouped under each class (water-works. sewers. etc.) and under each stage of the work (proposed. bids desired. etc.), according to the following geographic sections: New England, Middle Atlantic, South. Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.*
>
> *Where name of official is not given inquiries should be addressed to City Clerk. County Clerk, or corresponding official.*

S. D., Watertown—For 1 m.g. standpipe, to Pittsburgh-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., $34,000. Noted June 23.

Tex., Abilene—For c.i. pipe, to Amer. C.I. Pipe Co., 371 Praetorian Bldg., Dallas, $20,900; hydrants, to Darling Valve Mfg. Co., West Bldg., Houston, approximately $8,000; valves and valve boxes, to Waskom Supply Co., Dallas, $2,300; and joint lead, to San Antonio Supply Co., 231 East Commerce St., San Antonio, $1,911.

Tex., Crystal City — Extending waterworks mains, laterals, etc., to Dalton & Davis, Crystal City, approximately $20,000. Noted June 16.

Okla., Konawa—Waterworks and improvements, to E. W. Baker & Co., Medical Arts Bldg., Oklahoma City, approximately $78,000.

Sewers

Proposed Work

O., Canton—Stark Co. plans 4 mi. sewer in North Canton Sewer Dist., $100,000-$150,000; also sewer in Massillon-Canton Rd. Sewer Dist., $75,000-$100,000. G. E. Davidson, Canton, co. sanitary engr.

Mich., Royal Oak, Ind.—(br. Detroit)—Making plans vitr. or concrete sewers in Prairie Lawn Sub-division. $88,350. Hoad Decker, Shoecraft & Drury, Ann Arbor, engrs.

Ill., Bartlett—Made plans sewage disposal plant and sewers in various streets. $60,000. Suhr, Berryman & Peterson, 105 North Clark St., Chicago, engrs.

Ill., Carpentersville—Made plans 8- to 15-in. sewers in various streets. $180,000. Suhr, Berryman & Peterson, 105 North Clark St., Chicago, engrs.

Ark., Conway—Soon takes bids 22,000 ft. 18 and 24 in. sewers, and sewage disposal plant, in Dist. 2. $150,000. W. L. Winters, Merchants Natl. Bank Bldg., Ft. Smith, engr.

Tex., Amarillo—Making plans new sewage disposal plant. To exceed $25,000. Wynkoop Kiested, 614 Interstate Bldg., Kansas City, Mo., engr.

Tex., Perryton — Voted $70,000 bonds, complete sewerage system and disposal plant. Devlin Eng. Co., 127 Central Bldg., Amarillo, engr. Noted Mar. 31.

Tex., San Angelo—Making plans sewers in various streets. $700,000. Terrell Bartlett Engineers, Calcasieu Bldg., San Antonio, engrs.

Okla., Binger—Made preliminary plans new sewerage system. To exceed $25,000. M. Alexander, mayor. Engineer not selected.

Okla., Mangum—Making plans extending sewers in various streets. To exceed $50,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Ont., Toronto—York Twp. plans 470 ft. each sanitary and storm sewers in Traymore Crescent, also 1,420 ft. 8 in. and up vitr. tile service sewers in Victoria Blvd. and Ray Ave. $25,000. F. B. Goedike, 40 Jarvis St., engr.

Bids Desired

Mass., Stoneham—July 19, by Bd. Selectmen, Buick Bldg., sewers in various streets. $25,000. Private plans. Noted Mar. 24.

See proposal advertising on page 151

TRADE "LEADITE" MARK

Registered U. S. Pat. Office

Waterworks engineers and superintendents prefer to use Leadite for joints—*It assures them that the pipe line will be completed and a revenue producer well within the time allowance.*

THE speed and simplicity of use of Leadite is a big factor in rapidly expanding communities.

This illustration shown here is a scene from an installation where Leadite was used with c. i. bell and spigot pipe.

These lines are in one of the fastest growing cities in the South. The speed of Leadite jointing makes it possible to lay pipe fast enough to keep up with the new building and real estate expansion.

In addition, Leadite joints are permanent. For over 30 years Leadite has been tested and used under all pipe laying conditions and has proven completely satisfactory.

The saving of labor time and advantages of using Leadite produce a saving of over 75% of the cost of making the joints.

Benefit by the experience of thousands of engineers, superintendents and contractors who have used Leadite.

Specify
and use
LEADITE
It saves at least 75%

Be sure
it is
LEADITE
and accept
no imitations

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years

THE LEADITE COMPANY
Land Title Building - - Philadelphia, Pa.

NO CAULKING

Sewers (Continued)

N. Y., Brooklyn—July 20, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewer in Ocean Parkway, Kings Highway, Repose Pl., Lenox Rd., Avenue H, Highlawn, Bedford, Brooklyn, 23rd, 9th Aves., West 5th, West 6th, 67th, East 4th, East 2nd, 63rd, East 32nd and East 27th Sts.; also pneumatic ejector system for discharging screening apparatus of 26th Ward Disposal Works Hendrix St. and Vandalia Ave.

N. J., Tenafly—July 18, by Mayor and Boro Council, 6,000 ft. 8 in. vitr. sewers, ect., Contr. 4; and sewage, pumping station, etc. Contr. 5. N. M. F. Dennis, boro clk., adv. E. N.-R. July 14.

Pa., Phila.—July 20, by Dept. Pub. Wks., Bureau Engineering, main sewers in Washington Lane and Forrest St.

Fla., Tampa—July 19, by W. L. Brown, city mgr., 5,326 lin.ft. 8 in. concrete or vitr. sewer, etc., in Wilder Ave., 13th St. and 3 alleys.

Mich., Detroit—July 20, by Dept. Pub. Wks., 3,941 ft. concrete or brick sewers in Franklin and Adair Sts., Detroit River Interceptor Sewer Sect. 5, and 4,017 ft. monolithic concrete or brick in Adair St. and East Jefferson Ave., Detroit River Interceptor Sect. 4. P. A. Fellows, city engr.

Mich., East Lansing—July 18, by B. A. Faunce, city clk., 1,000 ft. 60 in., 6,800 ft. 27- to 33-in. and 1,200 ft. 12- to 24-in. sanitary interceptor and trunk sewers in various streets. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs. Noted July 7.

Mich., Halfway—July 20, by A. J. Wendt, village clk., 68.829 ft. 12- to 54-in. sewer, etc. in Dist. 1, H. R. O'Mara, village engr.; adva. E. N.-R. July 14.

Ill., Chicago — July 21, by H. C. W. Laubenheimer, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., North Side Intercepting Sewer, Contr. 9, incl. 7 river and channel crossings, etc. T. J. Crowe, pres.

Ill., Chicago — July 19, by City, Room 207, City Hall, tile pipe sewers with brick manholes and brick catch basins, also drains in 40 various streets and avenues. M. J. Faherty, pres. Bd. Local Impvts.

Ill., Princeton—July 25 (extended date), sewage treatment plant and storm sewers in various streets. $45,000. Shields, Jordan & Roe, 6 South Dearborn St., Chicago, engrs. Noted June 23.

Ont., Orangeville — July 18, by H. B. Church town clk., Town Hall, 5,125 ft. 8-to 18-in. vitr. tile sewers in various streets. $25,000. U. W. Christie, Court House, engr.

Ont., Toronto—July 11, by F. B. Goedike, 40 Jarvis St., engr., 7,500 ft. cement concrete service sewers in Northcliffe Blvd., Avon Crescent, Rushton and Avon Rds., Gray and Dunraven Aves., for York Twp. $30,000. Noted June 23.

Contracts Awarded

N. Y., Greensburgh—(Scarsdale P. O.)—Bd. Sewer Comrs., Fulling Bldg., 19 North Bway., Tarrytown, sewers in Fairview Sewer Dist., here, to J. Miele, East Orange, N. J. and Scarsdale, N. Y., $189,658. Noted June 23.

N. Y., Syracuse—Intercepting Sewer Bd., City Hall, constructing Burnet Ave. Relief Sewer, also altering and additions to north plant Eastwood Sewage Treatment Works, to C. T. Hookway, Weiting Bldg., $74,766 and $7,878 respectively.

Pa., Phila.—Dept. Pub. Wks., Bureau Engineering, to P. and A. J. Ellis, 44 Wyoming St., branch sewers in Cheltenham Ave. $14,105, to F. T. Buckins, Jr., 4050 Kensington St., Conshocken Ave. $2,886, to L. A. Zarilla, 500 North Simpson St., Cottage St. $3,779, 72nd St. $2,410, and Thompson St. $2,854, to A. DiSandro & Son, 6400 North 5th St., Farihill St. $6,064, to Leva Bros., 104 West Gale St., Foulkrod St. $12,137, to A. Frunzi, 513 High St., Jackson St. $2,556, Leverington St. $8,201, Phil-Ellena St. $3,678, to P. Pinciotti, 4103 Roosevelt Blvd., Magee St. $6,690, 26th St. $17,971, and 27th St. $11,690, to A. Perna & Son 752 South 10th St., Rector St. $3,533, and 71st St $9,468, to A. Corrado, 5920 Magnolia St. Rising Sun Ave. $8,475; also to J. E. Robinson, 5231 Catherine St., test borings, $3,700. Grand total $120,197. Noted June 16.

Pa., Phila.—Dept. Pub. Wks., Bureau Engineering, sewers in Greenwood St., to N. Cirucci, 611 South 9th St., $15,290. Noted June 23.

Md., Baltimore—Bd. Awards, 1,678 lin. ft. 30- to 42-in. rein.-con storm drains and sanitary sewers in Sewer Distr. H-17, Storm Water Contr. 108, to N. Martell, 4100 Vesta Ave., $31,805. Noted June 23.

D. C., Wash. — District Comrs., District Bldg., to L. M. Johnson, Wash., D. C., Upper Potomac Interceptor, $16,583; to W. A. Pate, Jr., Rockville, Md., D St. Service Sewer $2,554, and Cathedral Ave. $6,118; to A. McCandlish Co., 1215 Howard Ave. N. W., 2nd St. and Park Dr. outlet $4,166, and Patterson St. Service $875; to Loomis-Wetzel Constr. Co., 1125 St. N. W., Eames Pl. and 16th St. N. E., $1,625; to W. F. Brenizer Co., 101 New York Ave. N. E., Longfellow Sq. Sewer $4,526, East Brookland Storm Sewer $76,072, and Michigan Ave. Storm Sewer $6,558. Grand total $119,077. Noted June 16.

Miss., Kosciusko—J. W. Fletcher, city clk., 210 manholes, pumping equipment, building, and 73,150 ft. 8- to 12-in. sewers in various streets, to Sullivan, Long & Hagerty, Bessemer, Ala., $62,400. Engrs. est. $90,000. Noted June 9.

O., Columbus—W. H. Duffy, dir. Pub. Serv., Southwest Relief Drain, 9,056 ft. 8- to 60-in. pipe, and North High St. Storm Sewer, Contr. 6, 2,150 ft. 54- to 60-in. pipe, to B. Cannini, 209 South High St., $251,625 and $65,699 respectively. Noted June 9.

Ind., Indianapolis—Dept. Pub. Wks., for Pleasant Run Interceptor Sewer, 36,000 ft. rein.-con. pipe, to Krenn-Dato Constr. Co., 9 North Michigan Blvd., Chicago, Ill., $637,726. Engrs. est. $782,521. Noted June 30.

Ind., Jeffersonville — P. Spurgeon, city engr., approximately 3 mi. 24- to 36-in. vitr. clay trunk line and additional small sewers in Walnut St., to T. F. O'Neil, Front and Pearl Sts., $46,500. Noted May 5.

Mich., Dearborn — Constructing West Michigan Trunk Sewer, 5,107 ft. 12 in. vitr. pipe up to concrete cylinder, to Ianni Constr. Co., 3861 Doremus Ave., Detroit, $96,994. Noted June 16.

Mich., Pontiac — Sewage disposal plant addition, to Culbertson & Kelly, 872 West Milwaukee Ave., Detroit, $44,145.

Mo., Sedalia—Sewer improvements, to A. C. Comstock, Box 484, Tulsa, Okla., $202,000.

Tex., Crystal City — For 4- to 24-in. sewers and laterals in various streets, to Dalton & Davis, Crystal City, approximately $30,000. Noted June 16.

Tex., Harlingen—For 1½ mi. storm and 3 mi. sanitary sewers in various streets, to Kirkwood Wharton & Lee, 456 Main Ave., San Antonio, $36,000.

Tex., Houston — Sewers in Audubon, Hawthorne Sts. and alley east of Audubon St., to C. K. Horton, 2202 Clay Ave., $32,451. Engrs. est. $35,000.

Okla., Blackwell—For 27,000 ft. 8- to 12-in. vitr. clay sewers in Sewer Dist. 46, to Kohler Plumbing Co., Ponca City, $58,447. Engrs. est. $62,000.

Okla., Konawha—See "Waterworks."

Calif., Glendale—To M. J. Simonovich, 727 Alpine St., Los Angeles, sewer in Louise St., 3,162 ft. 10 in. vitr. clay pipe at $1.50 per ft., 49,932 ft. 8 in. $1.50, and 20,772 ft. 6 in. house sewers $1.25, etc., total $111,919.

Calif., Los Angeles—For rein.-con. drainage works in Drainage Dist. 20, to C. and C. K. Thompson, Brockman Bldg., $377,775.

B. C., Point Grey—For Quesnelle Dr. Trunk Sewer, 11,250 ft. 8- to 42-in. pipe to Harrison & Lamond, 502 Hastings St. W., Vancouver, $63,793.

Waste Disposal

Proposed Work

Ga., Atlanta—City Council plans waste disposal plant, steam plant, mechanical stokers, ash handling equipment and steam lines. $125,000 appropriated. J. N. Eley, 912 Atlanta Trust Co. Bldg., engr.

Bridges

Proposed Work

Miss., Elizabeth—Boliver Co. (Cleveland), plans rebuilding Bogue Phalia Bridge, rein.-con. and steel, recently destroyed by flood, near here. $50,000.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys, soundings, and preliminary plans bridge over Little Tennessee River, near Niles Ferry, Monroe Co.

Ind., Alfont (mail Ingalls)—Madison Co. (Anderson) soon takes bids replacing old iron bridge with 60 ft. concrete bridge over Fall Creek, here. $70,000. A. B. Steele, Anderson, engr.

Ind., Anderson—City and Madison Co. plan 300 ft. concrete bridge and approaches with ornamental light posts over White River and Killbuck Creek. $200,000. A. B. Steele, co. engr. and M. H. Downey, city engr.

Michigan—R. R. Havens, resident engr., 829 Greenwood Ave., Jackson, takes bids about July 29, S. R. Bridge 1 of 33-6-31, two 50 ft. span steel deck girder, over Red Cedar River, Ingham Co., for State Hy. Dept., Lansing.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall soon takes bids 1,750 ft. rein.-con. viaduct to carry Arsenal St. over St. Louis-San Francisco R.R. tracks. $531,000. St. Louis-San Francisco Ry. Co., F. G. Jonah, ch. engr., St. Louis, appropriates $300,000 toward cost. L. R. Bowen, City Hall, engr. This corrects report in June 16 issue.

Okla., Manford—State Hy. Dept., Oklahoma City, making preliminary plans 2-span 140 ft. steel truss bridge on concrete piers over Terrel Creek, Highway 1, Creek Co., near here. $40,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Ont., Ottawa—Secretary Ottawa Federal Dist. Comn., soon takes bids completing bridge over Ottawa River. $75,000. A. Stewart, Fraser Bldg., supt.

Ont., St. Thomas—Elgin Co. making plans probably 175 ft. span concrete and steel bridge in Malahide Twp. $45,000. J. A. Bell, County Bldgs., engr.

Bids Desired

Mass., East Bridgewater—July 19, by Dept. Pub. Wks., Boston, 4,916 ft. bridge and approaches on section of highway, here. W. F. Williams, comr.

Pennsylvania—See "Streets and Roads."

W. Va., Clarksburg — See "Streets and Roads."

O., Dayton—July 23, by F. A. Kilmer, clk. Montgomery Co., Court House, Superstructure Bridge 187, 225 ft. span steel truss, 20 ft. roadway, in Butler Twp. $60,000. W. O. Pease, Court House, co. surv. Noted Apr. 21.

Mich., Pontiac—July 22, by H. A. Maurer, city clk., rein.-con. bridge over Clinton River, on Perry St. incl. 365 cu.yd. rein.-con., 650 cu.yd. excav., and 21 tons reinforcing. $25,000. J. R. Pollock, City Hall, engr.

Kan., Columbus—July 29, by Cherokee Co., two 70 ft. steel truss, one 20 ft. slab and two 35 ft. deck girder spans on Federal Aid Project 299-B. H. W. Tyrell, Court House, engr. Noted June 9.

Kan., Wamego—Aug. 2, by Clerk Waubaunsee Co. (Alma) and Pottawatomie Co. (Westmoreland) at Alma, six 150 ft. span steel truss bridge, incl. 6,370 lin.ft. wooden piling, 8,870 cu.yd. earth approach, or alternate seven 128 ft. span arch bridge, 8,444 lin.ft. wooden piling and 8,870 cu.yd. earth approach, etc., Federal Aid Project 243-A, near here. F. Itz, Alma, co. engr. Noted May 12.

Texas—July 19, by R. I. Sterling, chn. Hy. Comn., Austin, one 106 ft. and one 159 ft. concrete girder bridge over Caney and Piney Creeks, $25,000; and 125 ft. steel span, girder approaches, etc., over White Rock Creek, Highway 94, $39,000, both in Trinity Co. E. F. Maddox, Lumpkin, div. engr. R. A. Thompson, Austin, highway engr.

Tex., Harlingen — See "Contracts Awarded."

Contracts Awarded

N. J., Woodstown — State Hy. Comn., Trenton, steel and concrete bridge over Salem Creek, on Route 6, here, Salem Co., to Chester Valley Constr. Co., Coatesville, Pa., $28,499. Noted June 9.

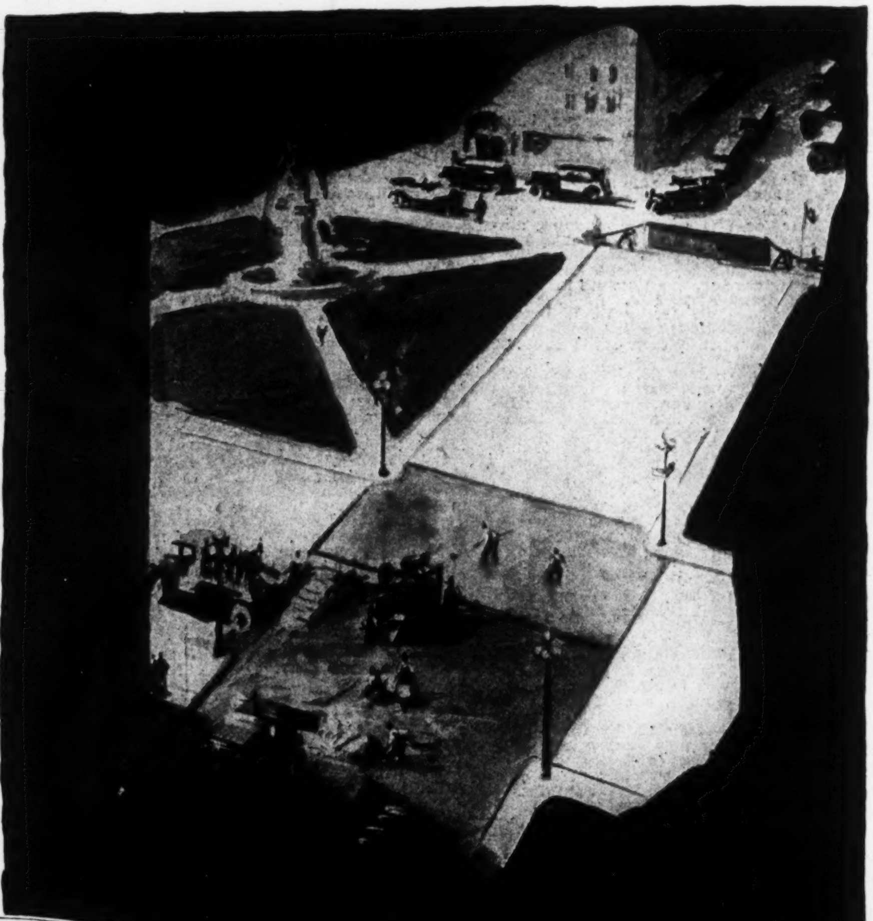
Pennsylvania—See "Streets and Roads."

Maryland — State Roads Comn., Baltimore, double span rein.-con. arch bridge over Antietam Creek, Contr. W-48, Washington Co., to Concrete Steel Bridge Co., Clarksburg, W. Va., $13,985; and single 22 ft. span rein.-con. slab bridge with two 5 ft. sidewalks on road from Frostburg to Westernport in Midland, Contr. A-46, Allegany Co., to Luten Bridge Co., Ebert Bldg., York, Pa., $2,677. Noted June 23.

Maryland — State Roads Comn., Baltimore, double 22 ft. span, rein.-con. slab bridge with street car tracks over Carroll Creek, on South Market St., Contr. F-104, Frederick Co., to Concrete Steel Bridge Co., Clarksburg, W. Va., $8,885. Noted May 12.

Md., Baltimore—Bd. Awards, 116 ft. concrete and steel bridge over Windsor Mill Rd., on Clifton Ave., to J. L. Robinson Contg. Co., 522 Park Ave., $90,314. Noted June 16.

Alabama—State Hy. Comn., Montgomery **(F.A.P. means Federal Aid Project)**, creosoted timber bridges on road between Uniontown and Newbern, F.A.P. 141-B, Perry and Hale Counties, to M. D. Morgan Opelika, $25,904; also bridge on F.A.P. 182, Pike Co., to E. Pettus, Montgomery, $23,059. Noted June 9.



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Bridges (Continued)

Tenn., Old Hickory—Davidson Co. Hy. Comn., Nashville, bridge, steel spans, steel approaches on concrete foundations, concrete piers faced with stone over Cumberland River, here, to Gould Contg. Co., Independent Life Bldg., Nashville, $763,639. Engrs. est. approximately $1,000,000. Noted June 2.

Kentucky—State Hy. Dept., Frankfort, one 90 ft. steel superstructure with concrete floor over Clarks River, on Murray-Eggners Ferry Rd., State Project 42-B, Calloway Co., to Vincennes Bridge Co., Vincennes, Ind., $7,578; also four 22 ft. one 38 ft. span rein.-con. overhead crossing over railroad tracks, on Whitley City-Somerset Rd., Federal Aid Project 170-A, McCreary Co., to Tevis & Ingram, Inc., Danville, $18,848. Noted June 9, under "Streets and Roads."

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridge on Route 51, Sect. 105-B, Will Co., to F. C. Feutz Co., Rochester, Ind., $11,146, Route 121, Sect. 105-B, Tazewell Co., to M. R. Sect. 106-B, Sangamon Co., to G. C. Fairclo, ington St., Peoria, $30,880; on Route 125, Deyo Mfg. & Constr. Co., 801 West Washington-Champaign, $10307; on Route 89, Sect. 127-B, Woodford Co., to Midwest Constr. Co., Mt. Carroll, $24,710; on Route 78, Sects. 148-B and C, Morgan Co., to Illinois Steel Bridge Co., Jacksonville, $20,000; and on Route 130, Sect. 121-B, Jasper Co., to G. H. Goodlink, Lawrenceville, $17,083. Grand total $114,276. Noted Mar. 26.

Ill., Chicago — Bd. Local Impvts., City Hall, east substructure for 175 ft. double leaf trunnion bascule bridge, 90 ft. over South Branch Chicago River, to Fitz Simmons & Connell D & D Co., 10 South La Salle St., $287,290; west substructure, to M. E. White Co., 1735 Fullerton Ave., $144,914; and superstructure, to Ketler-Elliott Co., 3121 South California Ave., $482,900. Grand total $915,104. This corrects report in June 30 issue.

Wis., Alma—See "Streets and Roads."

Kan., Alma—See "Streets and Roads."

Kan., Cottonwood Falls—Chase Co., South Fork Bridge 5, 120 ft. steel superstructure on concrete abutments, about 1 mi. from Bazaar, to Campbell Bros., 608 Manufacturers Exch., Kansas City, Mo. Noted June 2.

Missouri — State Hy. Comn., Jefferson City, to J. Kesl & Son, Edwardsville, two 10 ft. rein.-con. slab span bridge over Creek, St. Francois Co., $1,439; to Dexter Co., Dexter, two 10 ft. rein.-con. slab span bridge over Delaware Creek, Stoddard Co., $3,583; to Republic Concrete Constr. Co., Republic two 12 ft. slab span rein.-con. bridge over Creek, $3,171, and three 30 ft. deck girder span rein.-con. bridge over Messner Creek, $6,497, both in Shelby Co.; to O. H. Schmidt, Bartlett Trust Bldg., St. Joseph, one 80 ft. steel truss span and four 35 ft. beam span bridge over East Locust Creek $23,229 and three 25 ft. beam span bridge over overflow of East Locust Creek $4,096 both Sullivan Co. to McGlone & Walesby, Strasburg, two 10 ft. slab span rein.-con. bridge over Creek $2,594, one 80 ft. truss span, also two 24 ft. and two 20 ft. rein.-con. slab span bridge over Clear Creek, $14,238, repairing one 19½ ft. span bridge over Creek $198, all foregoing in Clay Co.; to A. L. Skinner, Vienna, cleaning and painting steel work on 380 ft. bridge near Alton, Oregon Co. $1,250. Grand total $60,295. Noted June 14.

Tex., Harlingen — Southern Pacific Ry. Co., c/o W. R. Scott, pres., Houston, will build 1 span 300 ft. steel and rein.-con. bridge across Arroyo Colorado, near here. $160,000. Private plans.

Tex., Houston—See "Streets and Roads."

Tex., Quanah—See "Streets and Roads."

Tex., Sanderson — See "Streets and Roads."

Wash. Seattle—Bd. Pub. Wks., bridge over Fairmount Ave., on Admiral Way, to T. E. Jones, Colman Bldg., $41,629. Engrs. est. $45,300.

Dams

Contracts Awarded

N. H., Claremont—Sullivan Mchy. Co., c/o C. T. Main, Inc., 201 Devonshire St., Boston, Mass., pipe line, power house and dam, to F. T. Ley Co., Inc., 20 Providence St., Boston, Mass.

Railways

Proposed Work

Montana — Northern Pacific Ry., H. E. Stevens, ch. engr., St. Paul, Minn., plans 25.77 mi. railway on opposite side Bitter Root River, in Ravalli Co., here. $861,474.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Texas — District to be organized, c/o Pease & Red River Valley Irrigation Assn., c/o B. T. Johnson, secy. owner, Electra, made outline surveys irrigating 200,000-300,000 acres land between Quanah and Burkburnett, on Pease and Red Rivers. $5,000,000-$6,000,000 bond election soon for same. Montgomery & Ward, 544 Harvey Snider Bldg., Wichita Falls, associated engrs.

Bids Desired

Ill. Virginia—July 22, by Comrs. Clear Lake Special Drainage Dist. at office G. Petfish, clk. Cass Co., rebuilding and repairing 245 stations Sangamon River Levee in above district, incl. handling 100,000 cu.yd. excav. Goodell & Millard, Beardstown, engrs.

Ia., Jefferson—July 25, at office Auditor Greene Co., repair and replacement work in Joint D. D. 18, Greene Co. and 35 Webster Co. (Ft. Dodge), incl. 38,600 ft. 10- to 36-in. tile, also 66 ft. 12 in. and 42 ft. 10 in. sewer pipe. S. J. Melson, Jefferson, engr.

N. B., Green Point—July 19, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., breakwater, here. $16,000.

Ont., Cookstown—July 16, by T. Robinson, clk. Tecumseh Twp., constructing Nottawasaga Drain, incl. 197,401 cu. yd. earth excav. $75,000. V. W. Christie, Court House, Orangeville, engr.

Contracts Awarded

Mass., Winthrop—Dept. Pub. Wks., Boston, 2,500 tons stone chips and 10,000 tons heavy granite rip rap, etc. about wall 1,200 ft. long at Great Head, here, to L. S. White, 25 Huntington Ave., Boston, $66,875.

Md., Baltimore — Bd. Awards, dredging 125,000 sq.yd. harbor, and constructing 1,915 ft. bulkhead with concrete walls, to Empire Contg. Co., 31 South Calvert St. $752,323. Noted June 23.

Miss., Bay St. Louis—Bd. Supervs. Hancock Co., 10 mi. rein.-con. seawall along gulf coast, to C. F. Lytle Co., Gulfport, and 504 Nebraska St., Sioux City, Ia., $800,855. Engrs. est. $1,250,000. Noted Mar. 4.

La., Lake Charles—Sulphur D. D. 3, E. Gayle, secy., 4-5 Frank Bldg., 63,414 cu.yd. dredging, etc., in drainage canals, to Forgey & Hanson, Eunice, at $0.133 per cu.yd. Noted June 9.

Ont., Collingwood—Dominion Govt., Ottawa, dredging, here, to C. S. Boone Dredging & Constr. Co. Ltd., Excelsior Bldg., Toronto, $29,600.

Streets and Roads

Proposed Work

Fla., Fort Myers—Making plans paving various streets. $2,000,000. C. N. Stanley, city mgr.

Bids Desired

New Hampshire—July 15, by State Hy. Dept., Concord, 3 in. on 6 in. gravel paving 2.77 mi. Hudson Derry Rd., Rockingham Co., 18 ft. $40,000. W. M. Prescott, Concord, engr.

Vt., Johnston—July 15, by State Hy. Dept., Montpelier, 1 course concrete paving, etc. 1,695 ft. highway, here. State Hy. Dept., State House, Montpelier, engr.

Massachusetts—July 19, by Dept. Pub. Wks., Boston, bituminous concrete paving 19,841 ft. highway in Orleans and Eastham; and bituminous macadam paving 15,038 ft. in Charlton, both 18 ft. W. F. Williams, comr.

Massachusetts — July 19, by State Hy. Dept., Boston, bituminous macadam surfacing 2,500 ft. highway in West Boylston, 4,400 ft. Groveland, and 8,600 ft. Templeton; gravel with bituminous surface treatment 4,900 ft. at Pepperell; and rein.-con. surfacing 1,000 ft. at Salem, all 18 ft. W. G. Williams, comr.

Conn., Stamford—July 18, by Selectmen's Office, concrete paving 6,500 lin.ft. Glenbrook Rd., Courtland and Church Sts., etc. $50,000. J. C. Williams, city engr.

New York—July 22, by A. W. Brandt, comr. Highways, Dept. Pub. Wks., Albany, grading 4.25 mi. Jones Beach Causeway, Nassau Co. J. S. Bixby, Pleasant Valley Rd., Poughkeepsie, dist. engr.; adv. E. N.-R. July 14.

N. Y., Brooklyn—July 20, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall permanent asphalt on concrete paving Rutland Rd.; grading East 13th St.; grading, curbing and flagging 61st and East 49th Sts.; grading and granite on concrete paving, etc. 39th St., Wythe and Norman Aves.; asphalt on concrete paving Canal St.; grading, curbing, flagging, asphalt on 6 in. concrete paving Avenue O, Lefferts, 17th and Narrows Aves., Junius, 51st, West 12th and North 15th Sts., etc.; concrete base paving Bedford Ave.; also grading and asphalt resurfacing by heater method Albermarle Rd., Williams Pl., East New York, Glenmore and Sutter Aves., 44th, and Seeley Sts.

N. Y., Brooklyn—July 19, by Park Bd., at office Dept. Parks, Arsenal Bldg., Central Park, New York City, grading southerly side 66th St. between 7th and 8th Aves., here.

N. Y., Mount Pleasant — July 25, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading, etc., 4/5 mi. Bronx Parkway Extension from New York Central R.R. to Bway. and Hawthorne, here. J. Downer, Bronxville, ch. engr.; adv. E. N.-R. July 14.

N. Y., New York—July 19, by J. Miller, pres. Manhattan Boro, Boro Hall, repairing wood block, granite block and Oak Key block pavements when and where directed in railroad area, in Manhattan Boro.

N. Y., Syracuse—July 18, by Bd. Contr. & Supply, City Hall, grading, curbing and paving 49,310 sq.yd. Wendell Terrace and Midland Aves., Fineview, Stadium and Garfield Pls., East Fayette, Cannon, Oakland, West Jefferson, Bennington and Emma Sts.; grading 1,900 cu.yd. Atkinson Ave.

N. J., Somerville—July 26, by Bd. Freeholders Somerset Co., Court House, grading and 8 in. rein.-con. paving Sect. 1, Easton Avenue Turnpike Rd. O. Smith, Jr., co. engr.; adv. E. N.-R. July 14.

N. J., Teaneck (mail West Englewood) —July 19, by Twp. Com., Municipal Bldg., curbing, sewers, 6 in. rein.-con. paving Elizabeth Ave., Teaneck Twp. A. Noack, 235 Main St., Hackensack, engr.

N. J., Teaneck (mail West Englewood)—July 19, by Twp. Com., Municipal Bldg., temporary waterbound macadam paving, etc., West Englewood Bridge Approach; curbing, sewer connections and 6 in. rein.-con. paving Tessen St. A. Noack, 235 Main St., Hackensack, engr.

Pennsylvania—July 28 and 29, by Dept. Highways, Harrisburg, rein.-con. and bituminous surface treated macadam paving approximately 32 mi. 17 projects in Adams, Allegheny, Beaver, Berks, Blair, Columbia, Dauphin, Erie, Fayette, Monroe, Northumberland Somerset Warren and Westmoreland Counties; also 1 bridge in Huntingdon and Indiana Counties. J. L. Stuart, secy. highways.

Pa., Phila.—July 21, by Dept. Pub. Wks., Bureau Highways, relaying existing granite blocks on concrete paving 2,565 ft. Broad St. from Venango to Butler Sts. and Bellfield to Loudon Aves., 69 ft., Contr. 166, Broad St. Subway.

Maryland — July 19, by State Roads Comn., Baltimore, concrete paving 2.83 mi. Contr. P-71, Prince George Co., 1.94 mi. Contr. Ce-61, Cecil Co., and 1.23 mi. Contr. T-26, Talbot Co.; macadam resurfacing 2.77 mi. Contr. H-58, Harford Co. J. N. Mackall, chn.; adv. E. N.-R. July 14.

Md., Baltimore—July 20, by Bd. Awards, grading, curbing, and sheet asphalt paving 15,470 sq.yd. streets listed Contr. 417; concrete paving 8,100 sq.yd. and granite block repaving 300 sq.yd. streets listed Contr. 418. S. Purcell, highways engr.

W. Va., Clarksburg—July 26, by Harrison Co. Court, Court House, stone base or concrete surfacing 1.5 mi. Robinson Run Rd., and 1.2 mi. Jones Run Rd., also grading, etc. 1 mi. Cunningham Run Rd., all Eagle Dist., bituminous surfacing 1.5 mi. Sycamore Creek Rd., Union Dist., also 45 ft. span rein.-con. arch bridge over Salem Fork of Tenmile Creek, Tenmile Dist., one 32 ft. and one 40 ft. span rein.-con. arch

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Streets and Roads (Continued)

bridge over Jones Run River, Eagle Dist. M. L. Loudin, clk.

Ala., Birmingham—Aug. 1, by City Comn., 2 in. asphalt on 6 in. concrete paving, etc. 9 blocks Georgia Rd., 27 ft. $19,250, 4 blocks 18th Pl., 40 ft. $25,115, 4 blocks Ave. H, Ensley, 30 ft. $21,000, and 2 blocks 3rd and 4th Aves., 30 ft. $11,900; also curbing, guttering, walks and 2 in. asphalt on 6 in. concrete paving 5 blocks 17th Pl., Princeton Court, and St. Charles Ave. 27 ft. and 30 ft. $32,650, 6 blocks Ave. G, Ensley, 27 ft. $25,000, and 1 block 12th St., 40 ft. $5,800. A. J. Hawkins city engr.

Kentucky—Aug. 26, by State Hy. Dept., Frankfort, surfacing 11.4 mi. Mayfield Fulton Rd., Graves, Hickman and Fulton Counties. E. N. Todd, highway engr.

Kentucky—July 22, by State Hy. Dept., Frankfort **(S.P. means State Project)**, bituminous surfacing 3.2 mi. Sharpsburg-Owingsville Rd., S.P. 61-C, Bath Co.; 3.65 mi. Pineville-Colmar Rd., S.P. 299-A, Bell Co.; 6.3 mi. Florence-Burlington Rd., S.P. 5-U, Boone Co.; 8.23 mi. Brooksville-Augusta Rd., S.P. 48-A and 3.5 mi. Brooksville-Cynthiana Rd., S.P. 58½-D, Bracken Co.; 6 mi. Newport-Alexandria Rd., S.P. 21-A, and 4.5 mi. Alexandria-Falmouth Rd., S.P. 2-G, Christian Co., 5.3 mi. Lancaster-Nicholasville Rd., S.P. 23-D, 2.6 mi. Lancaster-Stanford Rd., S.P. 23-E, 6.93 mi. Camp Rix-Robinson-Lancaster Rd., S.P. 25-E, and 3 mi. Lancaster-Nicholasville Rd., S.P. 97-A, all Garrard Co.; 6.64 mi. Elizabethtown-Bardstown Rd., S.P. 46-K, Hardin Co.; 5 mi. Cynthiana-Falmouth Rd., S.P. 21-E and 7.3 mi. Cynthiana-Georgetown Rd., S.P. 58½-B, Harrison Co.; 3.1 mi. Nicholasville-Russell Cross Roads Rd., S.P. 166-A, Jessamine Co.; 9.8 mi. Somerset-Stanford Rd., S.P. 22-G, Lincoln Co.; 12.34 mi. Richmond-Berea Rd., S.P. 5-K, Madison Co.; 2.3 mi. Lebanon-Danville Rd. S.P. 25-B, Marion Co.; 2 mi. Falmouth-Cynthiana Rd., S.P. 21-D, Pendleton Co.; 3.494 mi. Georgetown-Paris Rd., S.P. 32-L, Scott Co.; 3.5 mi. Frankfort-Shelbyville Rd., S.P. 17-C-1, Shelby Co.; and 3.7 mi. Springfield-Harrodsburg Rd., S.P. 47-C, Washington Co., all 14 to 18 ft. wide. E. N. Todd, highway engr.

Ohio—July 15, by G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, concrete or bituminous macadam paving 1.581 mi. Sect. "S" Chagrin-Falls-Greenville Rd., Trumbull Co., $65,613; brick or concrete paving 3.317 mi. Sect. "A-I" Dennison-National Rd., Tuscarawas Co. $103,135, Sect. 2 same project furnishing and delivering brick $35,280; also surface treating 143.43 mi. roads in Carroll, Belmont, Clark, Columbiana, Fayette, Geauga, Guernsey, Harrison, Logan, Pickaway and Seneca Counties, $108,940.

O., Akron — July 18, by W. F. Peters, dir. Pub. Serv., sheet asphalt and brick paving, etc., 26,200 sq.yd. Ridgecrest Rd., Moreley Ave., Fried and East Exchange Sts. E. A. Kemmler, Municipal Bldg., engr.

O., Cincinnati—July 22, by Bd. Comrs. Hamilton Co., grading and 9 in. asphaltic macadam repaving, etc., 30,600 sq.yd. 3 Mile Rd. $78,995. E. A. Gast, Court House, engr.

O., Columbus—July 16, by O. Moore, clk. Franklin Co., grading and waterbound macadam paving 1.989 mi. Cooper Rd., in Blendon Twp., 18 ft. $52,428. Former bids rejected. Noted June 2.

O., Hamilton—July 19, by E. O. Roll, clk. Butler Co., tar macadam surfacing 80,590 ft. Oxford-Brookville Rd., Billingsville Rd., Oxford-Collinsville Rd., and Princeton Rd., 14 and 16 ft., in Oxford Twp. $30,000.

Ind., Greencastle—July 18, by Common Council, grading and paving Jackson St., concrete $17,503, asphaltic concrete $15,107, wooden block $26,550, or brick $27,629. G. Ensign, city clk.

Ind., Huntington — July 16, by Comrs. Huntington Co., constructing John M. Roush et al Highway. $49,021. C. A. Griffith, Huntington, aud.

Ind., Indianapolis — July 15, by Bd. Comrs. Marion Co., constructing highway in Center and Warren Twps. $49,016. H. Dunn, Indianapolis, aud.

Ind., South Bend—July 18, by Comrs. St. Joseph Co., concrete paving O. B. Robbins Rd. $67,250, and Samuel Grenert Rd. $18,625. C. Sedgwick, South Bend, aud.

Michigan—July 16, by R. R. Havens, resident engr., 829 Greenwood Ave., Jackson, concrete paving 1.405 mi. T. L. 34-8 Project MO46-7 Contr. 1, Lenawee Co., 20 ft., for State Hy. Dept., Lansing. Noted June 16.

Michigan—July 27 (extended date), by G. H. Greene, resident engr., Fletcher Bldg., Alpena, concrete paving 5.171 mi. F. A. 123, Sect. C-1, Project F-016-13, Contr. 2, Cheboygan Co., 20 ft., for State Hy. Dept., Lansing. Noted July 7.

Ill., Woodriver—July 21, by W. E. Howden, engr., Court House, grading, concrete paving, etc., 4.5 mi. Edwardsville-Alton and Woodriver-Bethalto Highways, 18 ft., for Woodriver Twp. $125,000. Noted June 16.

Wisconsin—July 19, by Hy. Comn., Div. 8, 1st Natl. Bank Bldg., Superior, gravelling, etc., Cameron-Ladysmith Rd., Barron Co., Federal Aid Project 372-A, 6.78 mi. same road, Project 372-B, Rush Co.; also concrete paving, etc., 0.3977 mi. Amery-Apple River Rd., State Aid Project 8298, Polk Co. H. J. Kuelling, highway engr.

Minn., Crookston—July 20, by Polk Co., improving 12 mi. Jcb 2703 Crookston-Melvin Rd., 130,000 cu.yd. excav., 6 monolithic culverts, 189 cu.yd. concrete, etc. $26,000. E. H. Harding, Crookston, co. engr.

Kan., Ellsworth—Aug. 4, by Clerk Ellsworth Co., grading, etc. 7.697 mi. Federal Aid Project 62-B 28 ft. B. Storey, Ellsworth, co. engr.

Kan., Erie—July 28, Clerk Neosho Co., grading chats surfacing, etc., 10.28 mi. Federal Aid Project 380-A, 28 ft. C. P. Donald, Court House engr. Noted June 2.

Neb., Omaha—July 19, by J. P. Hoctor, city clk., grading, curbing, guttering and paving 25th, 26th and Park Aves., 6 streets and several alleys. H. Beal, city engr.

Mo., Clayton (Ind. br. St. Louis)—July 20, by W. E. Miller, clk. St. Louis Co., grading and concrete paving, etc., 1,200 sq.yd. Central Ave., 1,860 sq.yd. Greenway St., 4,252 sq.yd. Hunter St., and 2,300 sq.yd. Jefferson Ave. R. Jablonsky, Court House, engr.

Tex., Abilene—July 19, by R. S. Sterling, chn. State Hy. Comn., Austin, grading, etc. 10.38 mi. Highway 1, Federal Aid Project 444-I, 26 ft., Taylor Co. W. J. Van London, Abilene, engr. Noted Apr. 7.

Tex., Cleburne—Taking bids hard paving 14 blocks various streets, 18 ft. $40,000. C. H. Teesdale, Cleburne, engr.

Tex., San Antonio—July 29, by Comrs. Bexar Co., ashalt or its equal paving 5 mi. McCullough Ave., Robertson, Basse and Maltzberger Rds., 18 ft. $30,000. G. Collins, Courthouse, co. engr.

Calif., San Diego—July 25, by Common Council, curbing, guttering and 30,521 sq.ft. walks, etc. on Arosa, Gilcher Sts., etc.; also 6 in. asphaltic concrete paving 97,697 sq.ft. Elliott and Rosecrans Sts. F. M. Lockwood, city engr.

Ontario—July 18, by R. M. Smith, acting deputy minister Dept. of Pub. Highways, Parliament Bldgs., Toronto, concrete paving 3 mi. provincial highways in Mildmay and Clifford, Contr. 27-86, also grading and concrete paving, etc. 1.7 mi. Burlington Beach cut-off, Contr. 27-87. $75,000.

Contracts Awarded

Me., Portland—Granite Block paving 15,740 sq.yd. Park Ave., to Moniter Constr. Co., Portland.

Mass., Boston — Granite block paving Alford St., etc., to Walsh & Co., 52 Washington Ave., Chelsea. Engrs. est. $25,000. Noted June 16.

Mass., Ipswich — Sheet asphalt paving Washington St., to Welch & Moynihan, Salem, $26,947.

Mass., South Braintree (Ind. br. Boston) —Grading and sewerage works in Noak Torrey Primary School and new High School, to L. K. Cotlon, North Abington. Engrs. est. $25,000.

Connecticut — For 2½ bituminous macadam on 4- to 7-in. stone paving 31,680 ft. Rockville-Ellington Rd., 18 ft., in Ellington, to F. Arrigoni & Son, Middletown, $93,635; 9 in. rein.-con. paving Boston Post Rd. in Greenwich, to P. Mitchell, Cos Cob, $83,715; and 8 in. trap waterbound macadam paving 12,292 ft. in Hebron, 18 ft., to L. Suzio Constr. Co., State St., Meriden, $65,995. Grand total $243,345.

New York—A. W. Brandt, comr. Highways, Albany, **(e.e. means engineers estimate)** reconstructing 1.47 mi. Repair Contr. 3176, White Plains-Armonk Highway 35, Westchester Co., to P. Lucian & Son, 52 Grove St., White Plains, $120,750 e.e. $157,496; 3.2 mi. Repair Contr. 1625, Jericho Turnpike-Plainview Rd. 436, Nassau Co., to R. W. S. Corp., 185 New York Ave., Huntington, $163,960 e.e. $221,444; 0.39 mi. Sparkill Viaduct on State Highway 5714, New Jersey State Line-Nyack Rd., Rockland Co., to F. F. Baker, Mechanicsville, $270,634 e.e. $316,355; 2.63 mi. Repair Contr. 3178, Auburn-Seneca Falls, Highway 590, Cayuga Co., to Scott Bros. Constr. Co., Inc., 117 North Washington St.. Rome, $142,554 e.e. $182,120; 9.62 mi. Highway 8262, Bristol Springs-Bristol Center, Bristol-Bloomfield Rd., Part 1A, Ontario Co., to Achnellman, Inc., Buffalo, $250,535 e.e. $416,417; 3.56 mi. Repair Contr. 3177, Falconer-Kennedy, Highway 698, Levant-Poland, Highway 5053, and 2.64 mi. Repair Contr. 1624-3174, Mayville-Westfield Highway 5434, both Chautauqua Co., to Webber Co., Lakewood, $149,114 and $108,876 respectively e.e. $205,234 and $147,015 respectively; 5.89 mi. Highway 8284, Myers-Kings Ferry Rd., Part 3, Tompkins Co., to P. D. Conley Constr. Co., Inc., Ithaca, $206,785 e.e. $256,548; 0.14 mi. Highway 5713, East Galway-Saratoga Rd., Part 3, Saratoga Co., to W. M. Bronk, Hudson Falls, $6,353 e.e. $6,539; 4.17 mi. Repair Contr. 3175, Schodack Center-Valatie Rd. Part 4, Highway 5074, Columbia Co., to H. W. Patterson, 80 Genesee St., Hornell, $226,726 e.e. $317;865; 4.59 mi. Repair Contr. 3173 Elbridge, Highway 487, Elbridge-Camillus Rd. Part 1, Highway 5080, Onondaga Co., to Dale Eng. Co., 404 Court St., Utica, $254,740 e.e. $329,045. Grand total $1,901,027. Noted June 23.

N. Y., Auburn—J. P. Jaeckel, city mgr., City Hall, grading and paving Osborne St. and Woodlawn Ave., to Brayer Bros., Auburn, $259 and $22,125 respectively. Noted June 16.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading Meadow Pl., to Grimm Contg. Co., 170 McKinley Pl., $3 946; sheet asphalt paving Nevins St., to Cranford Co., 52 9th St. $10,786, Pitkin Ave. and repaving Crescent St., to Highway Impvt. & Repair Co., Furmans Island, $92,431 and $8,447 respectively, Union Ave., to Sicilian Asphalt Paving Co., 41 Park Row, New York City $6,846, and 4th Ave., to Brooklyn Alcatraz Asphalt Corp., 407 Hamilton Ave. $253,183. Grand total $375,639. Noted June 16.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, to Castle Bros., Johnson Pl., grading, curbing, etc. East 34th St. $2,243, to F. C. Kohart, 1784 East 21st St.. Van Siclen Ave. $12,648, and to F. DeVito, 158 17th St., 80th St. $5,635; to Leonard Paving Co., 233 Bway., New York City, granite block on concrete paving Clinton Ave., $23,667; to Uvalde Asphalt Paving Co., 1 Bway., New York City, sheet asphalt on concrete paving East 92nd St. $6,496. Cleveland Trinidad Paving Co., Flushing, Kent Ave. $31,577, and Livonia Ave. $3,883, to B. Turecamo Contg. Co., 8706 Bay 12th St., Marine Ave. $9,255, West 7th St. $16,301, and 52nd St. $11,609, to D. J. McCoy Asphalt Co., Avenue U and East 57th St., Ocean Ave. $210,298, and to Cranford Co., 52 9th St., 39th St., etc. $105,220. Grand total $438,832. Noted June 9.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., asphalt block on concrete repaving Fort Washington Ave., to Regan Towers Co., 124 West 121st St., $61,994; and granite block repaving South St., to J. Meehan & Sons, Inc., 90 West St., $115,385. Noted June 30.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete repaving Forest Ave. and Forest Hill Rd., to J. E. Donovan Paving Co., 2207 Richmond Terrace, Port Richmond, $49,525 and $14,151 respectively; grading and curbing Bard Ave. and granite block paving Bay St., to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $4,410 and $3,601 respectively. Grand total $71,687. Noted June 23.

Pennsylvania—State Hy. Comn., Harrisburg **(R means Route and A means Application)**, rein.-con. paving 10,158 ft. R-157 Sect. 1A Ontelaunee and Maiden Creek Twps. and 16,466 ft. R-518 Sect. 2 A-4632, Cumrut and Bricknock Twps., to Bryant & Kohl, Central Railroad Yards, Wilkes-Barre $99,910 and $154,217 respectively, also 21,737 ft. A-3842 Sect. 2-A, Ruscomb-Manor and Rockland Twps., to York Eng. & Constr. Co., 21 West Market St., York, $114.959, all foregoing in Berks Co., 22,520 ft. R-215, East Lampeter Twp. Lancaster Co., to Union Paving Co., 123 South 21st St., Phila. $219,396, R-162 Sect. 2, Rahn Twp., to Rudolph & Delano, Tamaqua $68,859, and R-161 Sect. 3 East Norwegian Twp., to Pottsville Constr. Co., Pottsville $99,786, both in Schuykill Co., 1,200 ft. R-276R-Cresson Twp., Cambria Co., to Clark Bros., Cherry Tree $23,647, 4,369 ft. A-4539 Mt. Pleasant Twp., Westmoreland Co., to Mt. Pleasant Constr. Co., Mt. Pleasant $32,349, 2,830 ft. R-Q-Middle Paxton Twp., Dauphin Co., to Continental Constr. Co., Knickerbocker Bldg., Baltimore, Md. $48,465, 37.309 ft. R-6-Sect. 2, Canaan and Texas Twps., Wayne Co., to D. Schoentag, Saugerties, N. Y. $436,946, 11,871 ft. R-60, Winston Twp., Jefferson Co., to Avery & Bailey, Philipsburg $135,511, 3,157 ft. R-29-Derry Twp., Mifflin Co., to Rauch & Kessler, Northumberland $40,815, and 8,461 ft. R-183-A-3365-Montour Twp., Columbia Co., to Vipond & Strite, Hollidaysburg $80,083; also constructing 2 span 159

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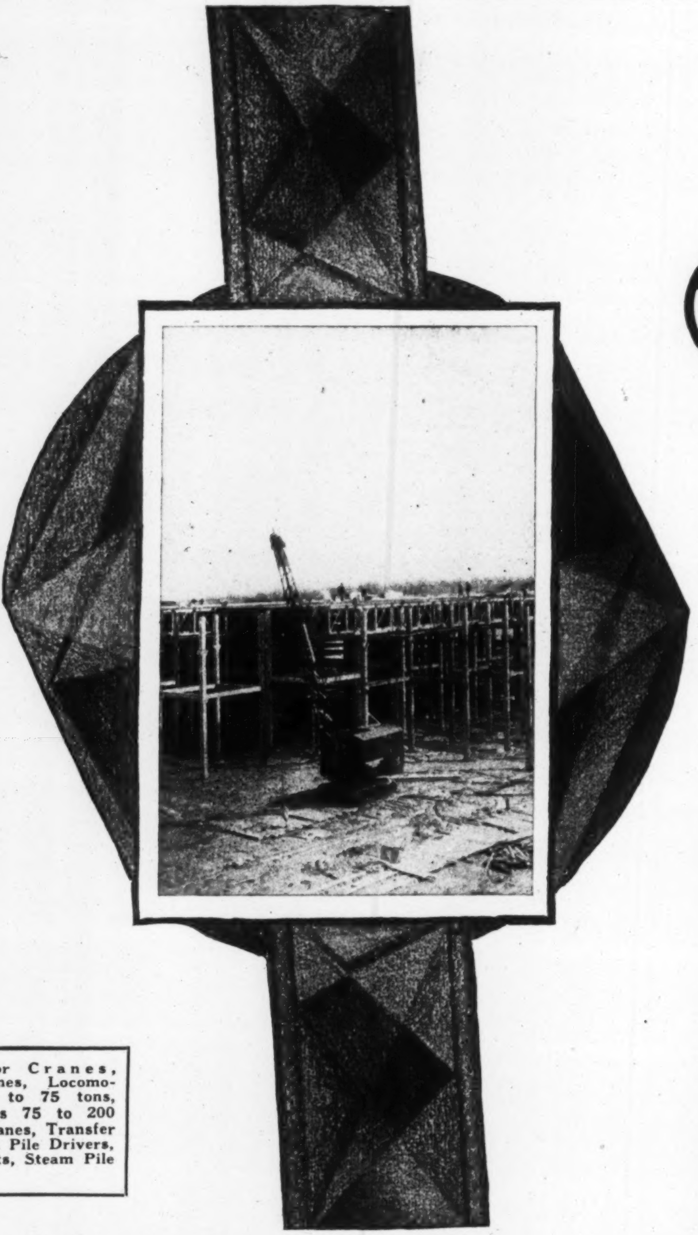

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Streets and Roads (Continued)

ft. plate girder bridge, 24 ft. roadway over Chickies Creek, Lancaster Co., to P. M. Sherich, Lancaster, $59,208. Grand total $1,614,151. Noted May 19 and June 9.

Pa., Phila.—Dept. City Transit, H. E. Ehlers, dir., approximately 9,000 sq.yd. granolithic sidewalks on both sides Broad St., to Elkins Paving Co., 524 North Holly St., $26,500. Noted June 30.

Pa., Phila. — Bureau Highways, Dept. Pub. Wks., to Curtis Bros., State Rd. and Unruh St., grading County Line Rd. $20,747, to J. Molloy, 15 East Meramid Ave., Briar Rd. $5,137, to J. Ciccone, 5732 Westminster Ave., 66th and 67th Sts., $12,810; to Eastern Asphalt Co., Penn Bldg., asphalt paving Johnston St. $6,698; to Municipal Constr. Co., Washington Trust Bldg., asphalt repaving Bainbridge St. $27,905, Wayne St. $24,458, 20th St. $9,481, 22nd St. $9,845, and 43rd St. $4,855; to M. and J. M. McHugh, 892 North Market St. paving and repaving certain alleys in 2nd Dist. $2534 and in 5th Dist. $587; to Union Paving Co. 123 South 21st St. grading Bensalem Ave. $212,204, redressed granite block repaving Spruce St. $19,245, and asphalt paving mixtures $50,750; to United Paving Co., Widener Bldg., redressed granite block repaving Rittenhouse St. $24,655. Grand total $431,911. Noted June 23.

Pa., Monessen—Brick paving Center Ave. from Wilson to Midland Aves, to T. Arigo, Charleroi, $30,075.

Delaware—State Hy. Dept., Dover, concrete (slag) paving, etc. 5,160 cu.yd. Dublin Hill to Woodenhawk, Contr. CS58, to W. Roach, Georgetown, $92,883. Noted May 26.

Maryland — State Roads Comn., Baltimore, concrete shoulders on 3.67 mi. Contr. Ce-10-B, Cecil Co., to Broad Creek Contg. Co., Elkton $25,740, and 7.5 mi. on Contr. F-16-A, Frederick Co., to E. C. Valentine, Rocky Ridge, $50,952; also graveling 1.7 mi. Contr. Ch-43, Charles Co., to G. B. Mullin Co., 1296 Upshur St. N. W., Wash., D. C., $11,770. Noted May 12 and 19.

Maryland—State Roads Comn., Baltimore, graveling 2 mi. Contr. C-28, Calvert Co., to Jarboe & Houghton, Mechanicsville, $14,714; macadam resurfacing 1 mi. Contr. F-102, Frederick Co., to P. E. Russell, Frederick, $11,052; concrete paving 1.4 mi. Contr. Q-39, Queen Annes Co., to Layfield & Waller Paving Co., Salisbury $22,744, and 1.5 mi. Contr. S-26, Somerset Co., to Hannemann-Burroughs Co., Salisbury $28,226; concrete shoulders on Contr. W-32, Washington Co., to H. W. Kaylor, Hagerstown $5,763, and 3.05 mi. Contr. B-84, Baltimore Co., to H. T. Campbell Sons Co., Towson $34,028. Grand total $116,500. Noted June 9.

Md., Baltimore—Bd. Awards, sheet asphalt paving 11,100 sq.yd. streets listed Contr. 411, to Amer. Paving & Contg. Co., Montebello Ave., $51,812; concrete paving 15,500 sq.yd. streets listed Contr. 410, to Arundel Contg. Co., Knickerbocker Bldg., $32,517; grading and concrete paving footways in Footway Contr. 102, to N. Apicella, 224 Albemarle St., $25,450. Grand total $109,778. Noted June 23.

Md., Towson—Comrs. Baltimore Co., concrete paving 1.49 mi. streets listed in Group 9, and 1.18 mi. 3 avenues in Group 8, to P. Reddington & Sons, 2 East Lexington St., Baltimore, $51,386 and $45,071 respectively. Noted June 16.

Ga., Savannah — J. W. Mathe, dir. Pub. Wks., City Hall, concrete paving 51st St. between Waters Ave. and Bee Rd., to Pritchard-Raines-Hazlehurst Co., Southern Bell Telephone & Telegraph Bldg., $27,603. Engrs. est. $27,603.

Alabama—State Hy. Dept., Montgomery, grading and surfacing, etc. 11.5 mi. roadway between Troy and Crenshaw Co. line, Federal Aid Project 182, Pike Co., to A. H. Singer, Lafayette, $80,779.

Miss., Jackson—Bd. Supervs. Hinds Co., grading, etc., 7.575 mi. Federal Aid Project 184-B, to Williams Bros., Osyka, $71,089. Noted May 26.

Miss., Laurel—Jones Co., improving 2.027 mi. Laurel-Meridian Rd., Federal Aid Project 183, 3,046 cu.yd. grading, 28,890 cu.yd. borrow, 117,335 lb. reinforcing and 42,400 lb. structural steel, 0.734 mi. Bermuda sod, 466 cu.yd. concrete hand rail, 3,032 ft. foundation piling, 459 sq.yd. concrete paving, etc., to J. A. and H. E. Pigford, Meridian and Russell, $49,919.

Kentucky — State Hy. Dept., Frankfort **(F.A.P. means Federal Aid Project, and S.A.P. State Aid Project)**, grading, etc. 4.631 mi. Florence-Warsaw Rd., S.A.P. 13-B, Boone Co., to Garrard & Patterson, Heidrick, $32,514, 14.696 mi. Richmond-Manchester Rd., F.A.P. 129-C, and S.A.P. 30-C, Jackson Co., to Berea Constr. Co., Berea $204,241, and 12.886 mi. Hindman-Dwarf Rd., S.A.P. 28 A and B, Knott and Perry Counties, to Codell Constr. Co., Winchester $201,522; bank gravel surfacing 11.003 mi. Hardingsburg-Hawesville Rd., F.A.P. 37-B, Breckinridge Co., to A. J. Hoffman, Skillman $85,922, 8.714 mi. Mayfield-Fulton Rd., F.A.P. 146-A, Graves Co., to N. E. Stone & Co., Madisonville $29,349, 9.318 mi. Brandenburg-Hardinsburg Rd., F.A.P. 65-A, Meade Co. and 7,213 mi. Hartford-Owensboro Rd., S.A.P. 11-E, Ohio Co., to Ellis, Kelly & Co., Owensboro $74,268 and $72,580 respectively; traffic bound macadam surfacing 4.392 mi. Brooksville-Falmouth Rd., S.A.P. 101-A, Bracken Co., to G. E. Miller, Visalia $38,037, 8.831 mi. Marion-Smithland Rd., S.A.P. 8-C, Crittenden Co., to Holly Flourspar Co., Marion $44,654, and 10 mi. Springfield-Lawrenceburg Rd., S.A.P. 152-A, Washington Co., to McElroy & Humphrey, 1557 East Washington St., Louisville $31,050. Grand total $814,137. Noted June 9.

O., Canton—Bd. Control, pressed brick paving, etc. 5 blocks Market Ave. N., 80 ft., to Garaux Bros. Co., Massillon Rd., $41,474. Engrs. est. $50,000. Noted Mar. 10.

O., Cadiz—Grading and concrete paving, etc. 10,111 sq.yd. Macon St., to B. C. Stoniger, Rayland, $29,357. Noted June 16.

O., Cleveland — Brick paving Elsienna Ave., to Roehl Bros., 7002 Dennison Ave. $17,872, East 68th St., to Cleveland Trinidad Paving Co., The Arcade $6,701, West 12th St. and concrete paving West 56th St., to Enterprise Paving & Constr. Co., 8444 Bway. $6,726 and $20,067 respectively; asphalt paving, etc. Neff Rd. Sects. 1 and 2, to Gould & Maybach Co., 16311 Saranec Rd. $21,145 and $34,754 respectively. Grand total $107,265.

O., Troy — Asphalt block repaving 8,000 sq.yd. South Market St., to J. M. Hennessey & Bros., Piqua, $28,000. Engrs. est. $30,000.

Ind., Bedford—Comrs. Lawrence Co., to W. E. Hendricks, constructing Lawrenceport Rd. $9,999, Bedford-Pinhook Rd. $19,990, also South Bedford and Leesville Rd. $11,844, to E. M. Jean, Slaughter Unit Rd. $9,000, and Holland Unit Rd. 1 $12,966, to O. P. Turley, Woodsferry and Spencer Co. Unit Rd. 4 $18,479, to H. V. Sutton, Chastain Co. Unit Rd. 2 $7,955, and D. S. Cox Rd. $6,562. and to G. Hillenberg, Aylette Younger Rd. $9,104, all foregoing contractors c/o J. H. Taylor, aud., Bedford; to W. J. Nees, South Bend, Bedford and Leesville Rd., $5,335; to E. Harding Shoals, Copcorn and Harrodsburg Co. Unit Rd. 5, $12,966; and to Bontrager Constr. Co., Elkhart, G-1 and V-2 Rds., $38,600. Grand total $162,800. Noted May 19.

Michigan—C. H. Brown, resident engr., 14380 Wyoming Ave., Detroit, concrete paving 7.17 mi. A. D. 462 Sect. B, Oakland and Macomb Counties, 20 ft., to J. A. McKay & Son, 16549 Woodward Ave., Detroit, for State Hy. Dept., Lansing, $188,074. Noted June 16.

Michigan—R. R. Havens, resident engr., Jackson, concrete paving 1.088 mi. T. L. 78-9 MO23-14, Contr. 1, Eaton Co., 20 ft., to Kalamazoo Paving Co., Kalamazoo, for State Hy. Dept., Lansing. $30,705. June 16.

Michigan—R. W. Roberts, resident engr., Saginaw, concrete paving 2.516 mi. T. L. 71-7 M976-19 Contr. 1, Shawassee Co., 8 ft., to L. M. Perry, Beaverton, for State Hy. Dept., Lansing, $28,314. Noted June 9.

Michigan—State Hy. Dept., Lansing, concrete paving 1.21 mi. T. L. 39-13 MO33-14 Contr. 4, 30 ft., to M. A. Holland & Co., 530 North Logan St., Lansing, $58,644. Noted June 16.

Michigan—At office City Clerk, St. Johns, concrete paving 1.833 mi. T. L. 14-60 Project M919-6, Contr. 1, Clinton Co., 20 ft., to Banhagel Constr. Co., Ionia, for State Hy. Dept., Lansing. $45,173. Noted June 9.

Michigan—H. C. Fleming, resident engr., Grand Rapids, concrete paving 2.07 mi. F. A. 185 A-1, FO41-10 Contr. 2, Kent Co., 20 ft., to State Constr. Division, Lansing. Former bids rejected. Noted June 9.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, paving Route 39, Sect. 13-X, Champaign Co., to Hurden Constr. Co., Ferguson Bldg., Springfield $3,608, Route 47, Sect. 118, Grundy Co., and Route 30, Sect. 3, Peoria Co., to Hartman-Clark Bros. Co., 330 Peoria Life Bldg., Peoria $104,221 and $26,707 respectively, Route 52, Sect. 521, Cook Co., to Chicago Heights Coal Co., Chicago Heights $127,874, Route 113, Sect. 112, Will Co., to E. J. Tegge Constr. Co., Papineau $74,847, Route 18, Sect. 7-R, Cook Co., to S. Jaicks, Oak Park $39,407, Route 116, Sect. 115, Livingston and Ford Counties, to Mautz & Oren, Inc., Effingham $140,182, Route 125, Sect. 105, Sangamon and Cass Counties, to W. D. Lonegren Constr. Co., Sterling $92,750, Route 130, Sect. 121, Jasper Co., to Ransom & Sherwood, Enfield $137,115, Route 39, Sect. 1, McLean Co., to Cameron, Joyce & Co., Keokuk $130,119, Route 89, Sect. 121, Putnam Co., to Trompeter & Sons, Peru $123,014, Route 82, Sect. 136, Henry Co., to Central Eng. Co., Putnam Bldg., Da[illegible]nport, Ia. $361684, and Route 24, Sect. 12, Sangamon Co., to Sangamon Constr. Co., Illinois Mine Wks. Bldg., Springfield $52,363; grading, etc. Route 4, Sect. F-1-A, Madison Co., to Edwardsville Constr. Co., Edwardsville $8,200, and Route 125, Sect. 106-A, Sangamon Co., to Hamilton-Hoffman Constr. Co., Carbondale $31,138. Grand total $1,453,249. Noted Mar. 26.

Ill., Arthur—Grading, curbing, guttering and 7 in. rein.-con. paving 16,178 sq.yd. Park, Pine, Lincoln and Logan Sts., to H. E. Menck & Co., Paris, $44,918. Engrs. est. $55,459. Noted June 23.

Ill., Barrington—Concrete paving 9,000 sq.yd. various streets, to Powers & Thompson, Joliet, $42,000.

Ill., Galesburg—Grading, curbing, guttering and vertical fibre brick paving South Cherry and East 2nd Sts., to H. H. Gunther, 600 East Main St., $20,927. Noted May 12.

Wis., Alma—J. Reinhardt, comr. Buffalo Co., to E. Blank, Cochrans, paving 1,000 ft. Schwinn Valley Rd. $5,424, 2,000 ft. Chancy Bitzan Pl. $10,861, and shale surfacing 3.5 mi. streets in Waumandee $11,617; to E. E. Toby, Fall Creek, paving 1,100 ft. Cook Valley Rd. $2,700, and Hutchinson Rd. $755; to Badger Stone Co., Fountain City, crushed rock surfacing Bohris Valley Rd. $5,907; to M. Hagen, Modena, constructing Smith Bridge $2,950, and Quarberg Bridge $1,002, to F. Metzler, Arcadia, Tierney Bridge $2,500 Kindschy Culvert $850, and Krug Culvert $1,400; to H. F. Hurtley, Mondovi, Kenyon Bridge $2,740 and Lorenz Bridge $1,917; to A. E. Emberson, Galesville, Lettner Bridge, $2,606. Grand total $53,229.

Wis., Juneau—E. C. Nitschke, comr. Dodge Co., to J. Ziehlke, Oakfield, graveling, etc. 6,000 cu.yd. Huilsburg East Rd., Project 2-A, in Herman $7,680, 8,700 cu.yd. Sects. 34, 27, 13 and 14 $9,918, and 8,000 cu.yd. County Trunk A, Project 16-A $7,520, to F. J. Balmer, Waterloo, 13,000 cu.yd. Project 13-A $19,240, to L. J. Dame, Taysheedah, 4,500 cu.yd. Project 5-A $5,850, and 4,000 cu.yd. Oak Grove-Chester Rd., Project 15-A $5,400, to W. Lind, Juneau, 4,500 cu.yd. North Shore Rd., Project 19-A $7,200, 4,000 cu.yd. County Trunk Highway 23-A $5,200, and 8,000 cu.yd. Project 28-A, County Trunk Highway H $10,800. Grand total $78,808.

Ia., Dakotah—Humboldt Co., to J. W. Donnelly, Gilmore, improving Project S-81 6,000 cu.yd. gravel 1 mi. haul at $0.36 per cu.yd., 9,600 units ½ mi. haul, $0.07, and 2,000 cu.yd. stripping $0.20; to Sampson Bros. Constr. Co., Algona, improving county maintenance, 6,125 cu.yd. gravel 1 mi. haul $0.25 and $0.30, 44,125 units ½ mi. haul $0.065 and $0.07, and 2,000 cu.yd. stripping, $0.14 and $0.19, and to R. Cook, Nevada, 1,500 cu.yd. gravel 1 mi. haul $0.34, 15,750 units ½ mi. haul $0.08 and 750 cu.yd. stripping $0.22.

Ia., Keokuk—For 6 in. rein.-con. paving 16,828 sq.yd. Belknap Blvd., Johnson, Bank and Timea Sts., and plain concrete paving 2,524 sq.yd. Timea St., to Keokuk Quarry & Constr. Co., Keokuk, at $2.11 nad $2.28 per sq.yd. respectively.

Ia., Glenwood—Mills Co., to E. A. Wickham & Co., Council Bluffs, improving Primary Project 479, 179,536 cu.yd. excav. at $0.18 per cu.yd., 100 cu.yd. loose rock $1, and 100 cu.yd. solid rock $1.75, also 1,100 ft. culvert labor $0.35.

Kan., Alma—Waubaunsee Co., grading, etc., 4.507 mi. Federal Aid Project 292-E, to Somers Constr. Co., Newton, $29,269; also 2 bridges on same project, to W. B. Stingley, Manhattan, $5,127 and $2,230 respectively. Grand total $33,626.

Kan., Spearville—Grading, curbing and brick on concrete paving Main St. from Avenue C to Santa Fe Ry. tracks to Geiger & Rutherford, Leavenworth, $47,516.

Neb., Fairbury—Sheet asphalt paving 9 blocks various streets, to Roberts Constr. Co., 404 1st Natl. Bank Bldg., Lincoln, $42,000.

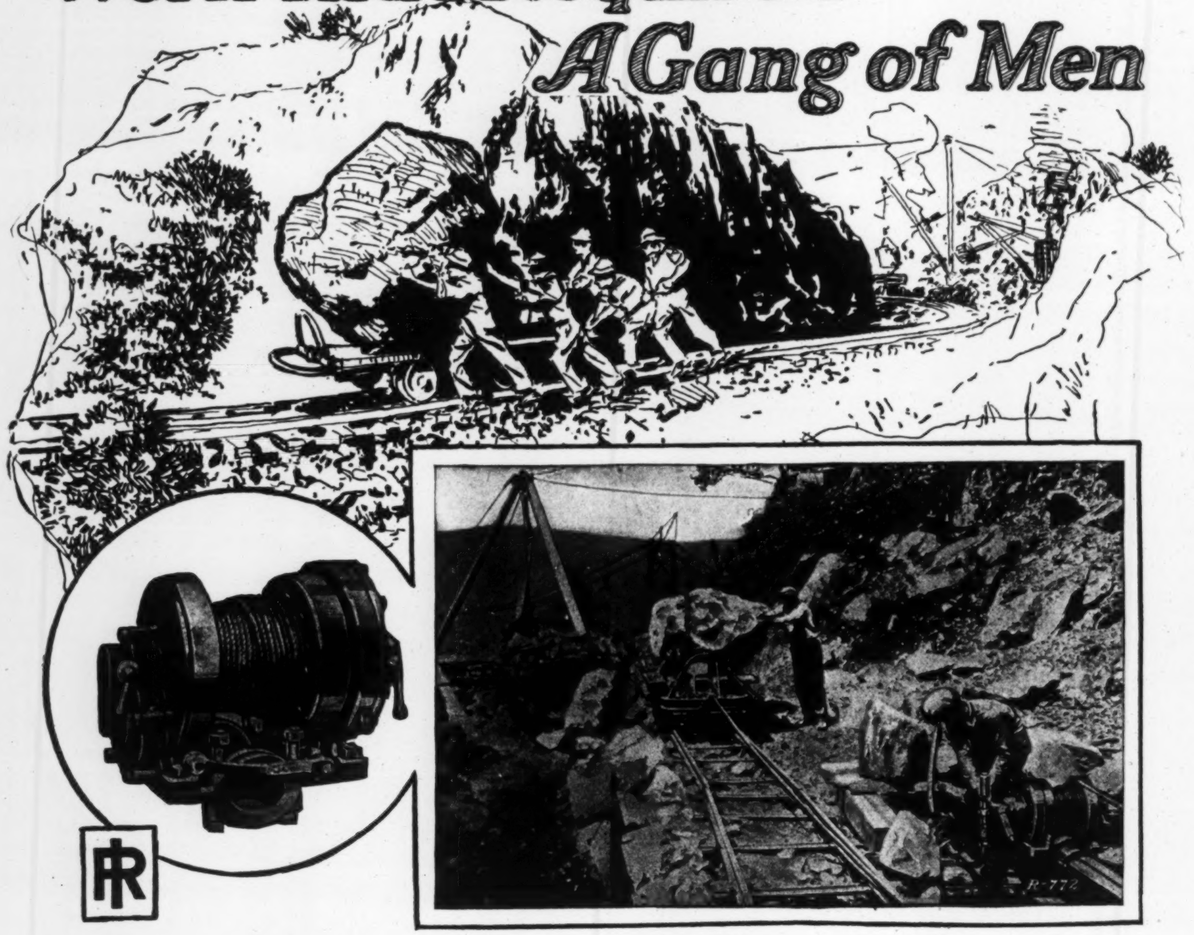
Neb., Grand Island—Asphaltic concrete paving, etc., 10,333 sq.yd. streets in Paving Dist. 59, to Diamond Eng. Co., 112½ North Locust St., approximately $26,000.

Neb., Madison—O. F. Metschke, city clk., asphaltic concrete paving 25,000 yd. various streets, to Abel Constr. Co., Terminal Bldg., Lincoln, $73,540. Noted June 16.

Missouri—State Hy. Comn., **(F. means Federal, and S.P. means State Project)**, to E. P. Olson, 2901 Monterey St., St. Joseph, grading 0.355 mi. F. and S.P. 285 D, Linn Co. $2,021, and to O. H. Schmidt, Bartlett Trust Bldg., St. Joseph, 0.142 mi. F. and S.P. 285 C, Sullivan Co. $4,378; to L. W. Spengler, 6015 Forest Ave., Kansas City, graveling, etc. S. P. Route 13, Sect. 6-A, Caldwell Co. $15,668, to Kiefner &

Constr. News page 17

Work That Required A Gang of Men



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Streets and Roads (Continued)

Geile Perryville, 0.336 S.P. Route 61, Sect. 95-A, and S.P. Route 61, Sect. 94-A $2,481, $15,902 both St. Francois Co., to Republic Concrete Constr. Co. Republic, and 4.2 mi. S.P. Route 15, Sect. 20, Shelby Co. $40,377, to J. M. Roark & Son, Anderson, 3.999 mi. S.P. Route 16, Sect. 2A $8,066 and 3.857 mi. S.P. Route 16, Sect. 1A $10,896, both in Newton Co., to J. Kesl & Sons, Edwardsville, concrete surfacing 5.133 mi. F. and S.P. 254 F $82,243 and 5.133 mi. same project $51,542 both in St. Francois Co. and to M. E. Gillioz, Monett, 3.998 mi. F. and S.P. 159 C, Dade Co., $40,629; to Dexter Constr. Co., Dexter, grading 1.135 mi. F. and S.P. 211 C. $12,930 and 4.122 mi. F. and S.P. 197 B, $40,667 both Stoddard Co., to W. D. Lonergan Constr. Co., St. Louis, 3.974 mi. F. and S.P. 285 A $31,887 and 3.878 mi. 285 B, $34,631 both Sullivan Co., to McGlone & Walesby, Strasburg, 0.294 mi. Ref. and S.P. Route 1, Sect. E $5,449, 3.853 mi. Ref. and S.P. 1, Sect. A $24,831, 3.863 mi. Ref. and S.P. 1B $21,842, and 3.782 mi. Ref. and S.P. 1D $22,059, all in Clay Co.; to A. A. Davis & Co., 1001 Commerce Trust Bldg., Kansas City, concrete surfacing 3.691 mi. F. and S.P. 259 C $43,084, 2.357 mi. F. and S.P. 259 D $27,382, 0.283 mi. F. and S.P. 259 B $2,999, grading, etc. 2.357 mi. F. and S.P. 259 D $3,568, 0.283 mi. F. and S.P. 259 B $1,578, and 3.691 mi. F. and S.P. 259 C $1,744, all in Jefferson Co., rock asphalt paving 0.36 mi. S.P. Route 66, Sect. 14-A, Greene Co. $37,960, gravel surfacing 4,865 mi. Sect. 15-A $16,652, 4.937 mi. Sect. 14-A $15,458, 1.992 mi. Sect. 17 A $8.135, and 4.17 mi. Sect. 16-A $11,997, all foregoing S. P. Route 44, in Barry Co. Grand total $639,056. Noted June 14.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to C. A. Moreno, concrete paving, etc. 4,230 sq.yd. Wanda Ave. $24,392, and to Central Paving & Constr. Co., 6161 Maple Ave., alley in Block 5465 $5,235; to Granite Bituminous Paving Co., Railway Exch. Bldg., Warrenite bitulithic paving, etc. 4,313 sq.yd. Eichelberger St., $37,286; to Webb-Boone Paving Co., 5103 Fyler Ave., Amiesite paving, etc. 1,925 sq.yd. Mallinckrodt St., $14,376; to Crean Scott Constr. Co., 4030 Chouteau Ave., recut granite block paving, etc. 6,735 sq.yd. Lucas Ave. $62,882, to J. Kesl & Sons, Title Guaranty Bldg, 10.185 sq.yd. Washington Ave. from 4th St. to 12th Blvd. $75,931, 10,670 sq.yd. Washington Ave. from 12th to 18th Sts. $72,624, and 11,645 sq.yd. Washington Ave. from 18th to Jefferson Aves. $78,446. Grand total $371,172. Noted June 23.

Tex., Amarillo—Asphalt on hard base paving 11 blocks 5th St., and 4 blocks Buchanan St., to El Paso Bitulithic Co., El Paso, $53,931 and $26,390 respectively.

Tex., Brownsville—Cameron Co., rein.-con. paving 17.9 mi. La Feria-Santa Rosa Rd., and Harlingen-Rio Hondo Rds. to F. P. McElwrath, Brownsville, $166,686, 20.5 mi. Boco-Chica Rd., San Benito-Rio Hondo Rd., and San Benito Rd., to Dobbs & Weidergartner, San Benito, $164,764; grading, etc. 55.5 mi. Paredes Line, Camino de Buena Vista, Old Point Isabel, Rangerville Blue Town Rd. and Military Rds., to W. W. Vann, Brownsville $275,000, 20 mi. Palmetal Blvd., Grimes Rd. Briggs Rd., Dillworth Crossing Rd., also roads from Highways 12 and 96, and Wilson Tract School House, to L. G. Nichols, Harlingen $160,000. Grand total $766,450. Noted June 9.

Tex., Hillsboro—State Hy. Comn., Austin, R. S. Sterling, chn., bituminous surfacing 10.5 mi. Highway 2-E, Federal Aid Project 413, 16 ft., to McClung Constr. Co., F. & M. Bank Bldg., Ft. Worth, $18,745. Engrs. est. $26,000. State Hy. Dept. will prepare base.

Tex., Houston — Harris Co., clearing, grubbing, grading, bridging, etc. 5.3 mi. Clinton Rd., 18 ft., to Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $153,838. Engrs. est. $280,000.

Tex., Quanah—Hardeman Co., grading, bridging, etc. 7.762 mi. Highway 5, Federal Aid Project 501-A, to F. Purvis, 1009-10 W. T. Waggoner Bldg., Ft. Worth, $22,309. Engrs. est. $30,000.

Tex., Sanderson—Terrell Co., grading and bridging, etc. 5.231 mi. Highway 3, Federal Aid Project 324-D, 26 ft., to L. J. Miles, Ft. Worth, $64,500. Engrs. est. $68,775. Noted June 9.

Okla., Shawnee—For 60,000 ft. 8 and 10 in. sewers in lateral sewer districts, to H. L. Cannady & Co., 1122 South Lewis St., Tulsa, $101,462. Engrs. est. $107,000. Noted June 2.

Okla., Tulsa—Lateral sewers in various streets, to H. L. Cannady Co., 1122 Lewis St., $105,093.

Wash., Mt. Vernon—Skagit Co., concrete paving, etc., 1 mi. Cook Rd. Extension, 16 ft., to Norris Bros., Arlington, $31,650. Noted June 9.

Wash., Seattle—Paving 26th Ave. N. E. et al, to Fiorito Bros., 3950 6th St. N. W., $184,626; and East 37th St. et al, to Goetz & Brennan, Seaboard Bldg., $93,746.

Ore., Portland—Multnomah Co., Court House, grading, concrete and asphaltic concrete paving etc. Capitol Hill Project, Terwilliger Dr. to Bertha Sta., to La Pointe Constr. Co., 629 East 54th St. N., $23,675. Engrs. est. $27,500.

Calif., Long Beach—Improving Pacific Ave., to Baty Electric Co., 128 West 4th St., Los Angeles, $41,680.

Calif., Los Angeles — Bd. Pub. Wks., grading, sewers and concrete paving, etc., Victoria Ave., to W. Liddington, 430 East 60th St., $16,949; also Cahuenga Blvd., to J. H. Coak, 5850 West 3rd St., $244,335.

Calif., National City—Asphaltic concrete paving 6th St. between 1st and K Aves., to Griffith Co., Railway Bldg., Los Angeles, $49,430.

Calif., Redwood City—W. A. Price, city clk., improving Madison Ave. and Hawes St., 148,879 sq.ft. 3 in. crushed rock or broken stone base, 126,361 sq.ft. 2½ asphaltic concrete base, 1½ in. warrenite bitulithic surface, etc. to Peninsula Paving Co., 58-2nd St., San Francisco, $44,285. Noted June 23.

Calif., Redwood City—E. M. Kneese, clk. San Mateo Co., paving, etc., Palo Alto and Poplar Aves., etc., to Peninsula Paving Co., 58 2nd St., San Francisco, $114,510. Noted May 26.

Calif., Riverside—Curbing, guttering and asphaltic concrete paving South Brockton Ave., etc., to Hall-Johnson Co., 905 South Westminister St., Alhambra, $56,219. Noted June 9.

Calif., Roseville—Sewage disposal plant, to Municipal Impvt. Co., 1723 Webster St., Oakland, $30,700. Noted June 2.

Calif., San Diego — Bd. Supervs. San Diego Co., to Struve & Nunn, San Diego, improving 54th St. and Euclid Ave., 68,225 sq.ft. 5 in. concrete paving at $0.17 per sq.ft., 288,089 sq.ft. 6 in. concrete paving $0.188, etc., 35,587 cu.yd. excav. $0.46, total $135,182.

Calif., South San Francisco—D. McSweeney, city clk., asphalt and concrete paving, etc. Elm Ave., portions Locust and Orange Aves., etc., to Raisch Impvt. Co., 46 Kearny St., San Francisco, $22,955. Noted June 16.

Ont., Forterie—Concrete paving various streets, to Brennan Paving Co., 400 Gage Ave., Hamilton, $70,000.

Ont., Ottawa — Carleton Co., macadam paving 2½ mi. roads, 20 ft., in Gloucester Twp., to R. Ormond, Cyrville. Engrs. est. $50,000.

B. C., Point Grey—Warrenite bitulithic on rock paving various streets, to Columbia Bitulithic, Ltd., Bekins Bldg., Vancouver, $14,670, and 6 in. concrete paving, to Armstrong Morrison Paving Co., Ltd., 543 Granville St., Vancouver, $20,090.

Buildings—Commercial

Proposed Work

Vt., Bellows Falls—BANK and OFFICE—Bellows Falls Trust Co., A. H. Chandler, pres., having plans prepared by Norton & Townsend, 405 Temple St., New Haven, altering and constructing 3 story and basement, brick and stone addition, plain foundation. $150,000.

Mass., Lowell—THEATRE—R. E. Brown, Elm St., Andover, having plans prepared by C. L. Kemp, 8 Platt St., Lawrence, 2 story and basement, 60 x 100 ft., brick and steel, plain foundation, 49-59 East Merrimac St., here. $150,000.

Mass., Monson—HOME—Commonwealth of Massachusetts, Dept. Mental Diseases, Boston, rejected bids 3 story and basement, 35 x 120 ft., and 35 x 35 ft. mail employees house, brick, plain foundation, at state hospital, here, $150,000 or more. Will probably readvertise. G. Robb, 14 Beacon St., Boston, archt. Noted June 9.

Mass., Quincy (br. Boston)—APARTMENT—Stein & Applebaum, 35 Plymouth St., plans 3 story and basement, brick and stone, plain foundation, Hancock and Dimock Sts. $150,000. Engineer and architect not selected.

Mass., Somerville (br. Boston)—Y. M. C. A., E. W. Houghton, 37 Medford St., soon takes bids 4 story and basement, brick, plain foundation, 101 Highland Ave. $175,000. W. Atherton, 15 Exchange St., Boston, archt.

Mass., Waltham (Ind. br. Boston) — BANK—Waltham Natl. Bank, F. Sears, 637 Main St., plans bank, Moody and Branch Sts. $150,000 or more. Engineer and architect not selected.

Mass., Worcester—CLUB and AUDITORIUM—Lutheran N. & B. Club, 93 Green St., having plans prepared by J. Belzerian, 339 Main St., 2 story and basement, 55 x 120 ft., brick and steel, Vernon St. $150,000.

R. I., Providence—MEMORIAL—City, City Clerk, City Hall, having sketches made by P. P. Cret, 1523 Chestnut St., Phila., Pa., war memorial building, City Hall Park. $300,000. Noted Mar. 24.

Conn. Hartford—BUSINESS—A. B. Wilson Co., 327 Trumbull St., had plans prepared by E. M. Stone & Son, 327 Trumbull St., 3 story and basement, 55 x 110 ft., brick and steel, incl. swimming pool and solarium, Chapel St. $150,000.

N. Y., Albany — ALMSHOUSE — Bd. Supervs. Albany Co., having plans prepared by H. R. Rogers, 467 Bway., 2 story, 58 x 100 ft., brick, steel and concrete, Shaker Rd., in Colonial Twp., point 9 mi. from here. $250,000. Also plans power plant, penitentiary, hospital and nurses home. Total cost $2,500,000.

N. J., Elizabeth—J. F. Jackson, archt., 137 East 45th Street, New York City, soon lets contract, general contract 3 story brick and steel, plain foundation, Madison Ave. between East Jersey and Lafayette Sts., here, for Y. M. C. A., 1164 East Jersey St. $250,000. Poggi & Bragdon, 275 Morris Ave., associated archts. Noted Jan. 20.

N. Y., New York—CLUB—Montbattan Odd Fellows Temples, Inc., c/o H. Taussig, archt., 250 Park Ave., having plans prepared 11 story, 100 x 100 ft., brick and steel, plain foundation, 111 East 106th St. $250,000.

N. Y., New York — GARAGE — Kent Automatic Parking Garage, Inc., M. A. Kent, pres., 350 Madison Ave., plans 28 story, 50 x 200 ft., brick and steel, caisson foundation, 208-210 East 44th St. through to 209-211 East 43rd St. $1,250,000. Engineer and architect not selected.

N. Y., Syracuse—SALES and SERVICE STATION—White Motor Co., c/o H. R. Hadlow, constr. engr., 842 East 79th St., Cleveland, O., soon lets contract 1 story, rein.-con., brick and steel, here. $150,000. Private plans. Noted Feb. 24.

N. J., East Orange — APARTMENT — Altshuler & Cohn, c/o E. V. Warren, archt., Essex Bldg., 31 Clinton St., Newark, having plans prepared 4 story, 90 x 170 ft., brick and steel, plain foundation, 49 South Clinton St. $200,000.

N. J., Elizabeth—Y.W.C.A., 1131 East Jersey St., having sketches made by G. C. Poggi, 275 Morris Ave., 3 story, brick and steel, plain foundation. $150,000. Noted July 7.

N. J., Irvington (br. Newark)—APARTMENT—U. Modica, c/o J. B. Acocella, archt., 9 Clinton St., Newark, having plans prepared 3 story, 90 x 110 ft., brick and steel, plain foundation, 1033-39 Stuyvesant Ave. $150,000.

N. J., Irvington (br. Newark)—APARTMENT—J. Dorrity, c/o J. B. Accolla, archt., 9 Clinton St., Newark, having plans prepared 3 story, 90 x 110 ft., brick and steel, plain foundation, 993-99 Stuyvesant Ave. $150,000.

N. J Jersey City—APARTMENT—W. H. McIntyre, c/o R. Sellick, archt., 197 Market St., Newark, having plans prepared 10 story, brick and steel, plain foundation, Cater and Rose Sts., here. $350,000.

N. J., Jersey City — APARTMENT —D. Lerner, 21 Gifford Ave., had plans prepared 10 story, brick and steel, plain foundation, 88 Gifford Ave. $1,500,000. Private plans.

N. J., Kearny (sta. Arlington)—OFFICE —Congoleum Nairn, Inc., Belgrove Dr., having plans prepared by Guilbert & Bettelle, 20 Branford Pl., Newark, 3 story, brick and steel, plain foundation, here. $150,000. Noted May 26.

N. J., Newark—APARTMENT—Hillside Developing Co., c/o S. Cohen, archt., 134 Branford Pl., having plans prepared 5 story, brick and steel, plain foundation, 691-97 Elizabeth Ave. $150,000.

N. J., Newark—APARTMENT—Hillside Avenue Developing Co., c/o S. Cohen, archt., 134 Branford Pl., having plans prepared 5 story, brick and steel, plain foundation, 11-17 Goldsmith Ave. $150,000.

N. J., Newark—CLUB—Knights of Columbus, 65 Lincoln Park, plans 3 story, brick and steel, plain foundation, 61-67 Lincoln Park. $300,000. Engineer and architect not selected.

N. J., Newark — LOFT and STORE — Bloomingdale Bros., Inc., 59th St. and Lexington Ave., New York City, having revised plans prepared by Starrett & Van Vleck, 393-7th Ave., New York City, and soon takes bids altering 6 story, brick and

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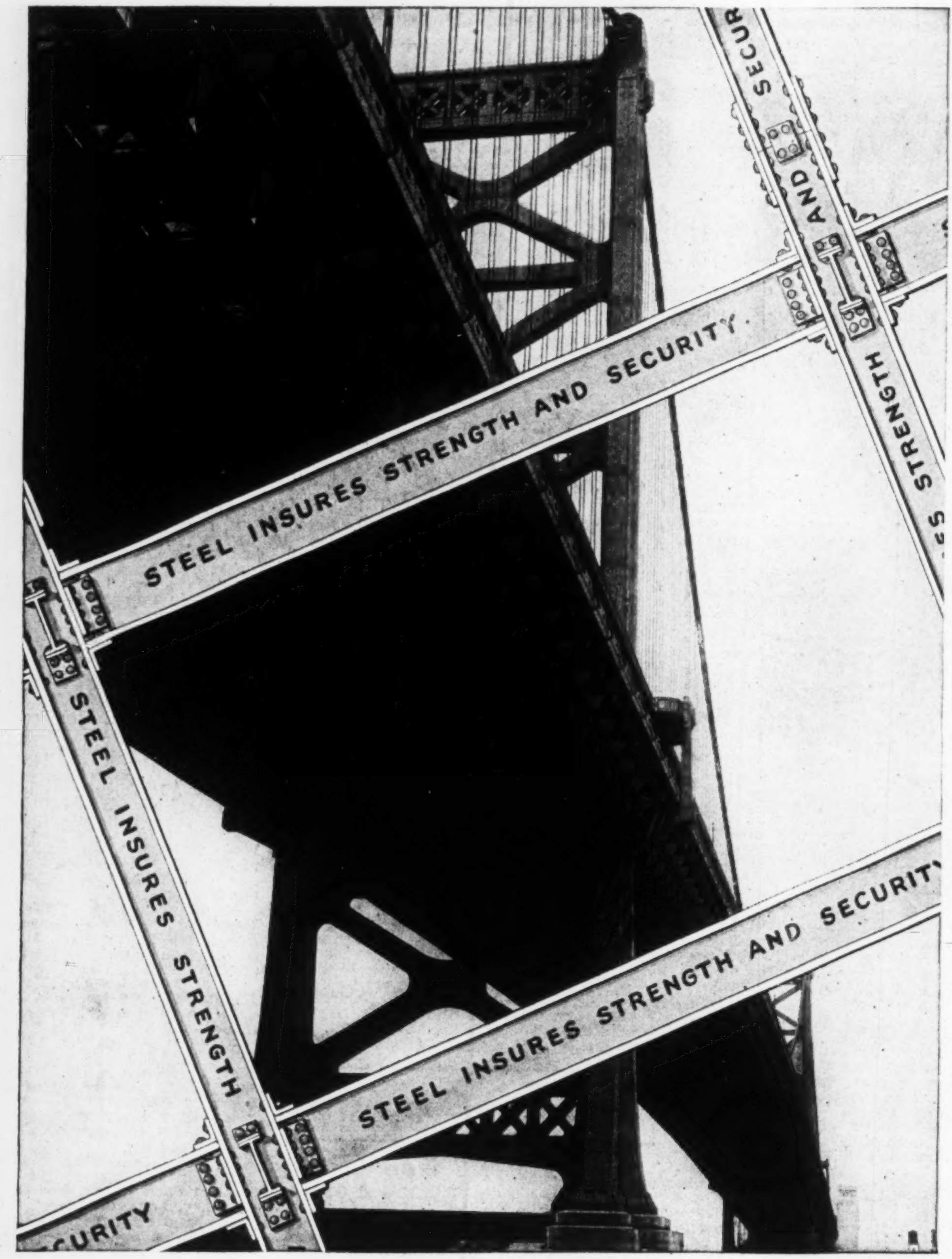
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Steel Insures Strength and Security

Buildings—Commercial (Continued)

steel, 69-71 Market St., here. $150,000. Former bids rejected.

N. J., Orange—APARTMENT—Tremont Realty Co., c/o A. P. Nucciarone, archt., 206 Central Ave., having plans prepared, two 5 story, brick and steel, plain foundation, 598-612 Lincoln Ave., $200,000.

N. J., Passaic—APARTMENT—Russell & McCrea, c/o B. J. Bellay, archt., 80 Lexington Ave., having plans prepared 4 story, brick and steel, plain foundation, Elmwood and Crescent Aves. $200,000.

N. J., Rahway—THEATRE, STORE and OFFICE—Rahway Constr. Co., 188 Market St., Newark, rejected bids 2 story, 78 x 155 ft., brick and steel, Irving St. and Milton Ave. $200,000. Project abandoned. H. Rosensohn, 188 Market St., Newark, archt. Noted June 2.

N. J., Rutherford—APARTMENT—Magnolia Constr. Co., 1 Magnolia Ave., Jersey City, having plans prepared by J. Stollman, 90 Waldo Ave., Jersey City, 4 story, brick and steel, plain foundation, 64 Ettrick Terrace. $200,000.

N. J., Union—APARTMENT and STORE—Union County Housing Corp., Morris Ave., having plans prepared by F. A. Elsasser, 845 Broad St., Newark, 4 story, brick and steel, plain foundation, Floyd Village Tract. $150,000.

Pa., Phila.—LOFT—B. F. Cohn, Widener Bldg., having plans prepared by W. M. Stanton, Land Title Bldg., 20 story and basement, 80 x 106 ft., rein.-con., brick and steel, plain foundation, 1202-10 Filbert St. $1,000,000.

Pa., Phila. — PASSENGER STATION — Phila. & Reading R.R. Co., Reading Terminal, having plans prepared by H. Trumbauer, Land Title Bldg., 1 story, 180 x 800 ft., steel and limestone, Broad and Lehigh Sts. $2,000,000. C. Dillenbeck, Reading Terminal, engr.

Pa., Warren — HOSPITAL — Warren State Hospital, c/o B. E. Taylor, supt. Property & Supplies, State Capitol, Harrisburg, having plans prepared by E. F. Wood, Hardy & Haynes Bldg., Pittsburgh, hospital buildings, here. $500,000.

Ga., Savannah—OFFICE—C. F. Fulton Real Estate Co., Citizens Trust Bldg., having plans prepared by Wallin & Comer, Realty Bldg., 6 story and basement, rein.-con. and steel office building. $500,000. Heating plant, etc.

O., Cleveland — APARTMENT — G. A. Monroe, 2847 Berkshire Rd., Cleveland Heights, had plans prepared 4 story and basement, 40 x 199 ft., brick, 718 Lakeview Rd. $150,000. Private plans.

O., Cleveland—APARTMENT—H. Cadkin, 3189 East 118th St., having plans prepared by L. Skolnik, Auditorium Bldg., 3 story and basement, 75 x 93 ft., brick apartment. $150,000.

O., Cleveland—APARTMENT—M. Teplitz, 10003 Columbia Ave., had plans prepared by M. Weis, Union Bldg., 4 story and basement, 65 x 141 ft., brick, East 93rd St. $150,000.

O., Cleveland — CLUB — Natl. Town & Country Club Co., c/o G. A. Schneider, Wade Park Manor, having plans prepared by G. B. Post & Sons, Hanna Annex Bldg., 10 story and basement, brick, steel and concrete, East 24th St. and Euclid Ave. $3,000,000.

O., Cleveland—HOSPITAL—H. H. Timken, Harrison Ave. N. W., Canton, plans 3 story and basement hospital, Lake Shore Blvd. and East 185th St., to Melbourne Constr. Co., Brant Bldg., Canton. Archts. est. $250,000.

O., Cleveland—HOTEL—Crowell & Little Constr. Co., c/o R. H. Cobb, secy.-treas., Hanna Bldg., had plans prepared by Ellerbe & Co., 692 Endicott Bldg., St. Paul, Minn., 12 story and basement, brick, steel and concrete, Euclid Ave. near East 90th St. $750,000.

O., Columbus—OFFICE—Acme Development Co., 17 South High St., soon lets contract 12 story and basement, 71 x 118 ft., brick and steel, East State St. $700,000. Miller & Reeves, 205 East Broad St., archts. Former bids rejected. Noted June 23.

O., Salem—LODGE—Eagles Lodge soon takes bids new lodge, McKinley Ave. $150,000.

Ind., Bloomington — WAREHOUSE — Schnull & Co., 601 Kentucky Ave., Indianapolis, having preliminary plans prepared by Vonnegut-Bohn-Mueller, 608 Indiana Trust Bldg., Indianapolis, brick and steel warehouse, here. Archts. est. $150,000.

Ind., Indianapolis — APARTMENT HOTEL—Pennfore Realty Co., 1701 North Illinois St., having plans prepared by F. B. Hunter, 912 State Life Bldg., 12 story and basement, 60 x 154 ft., rein.-con. brick and steel, 14th and Pennsylvania Sts. $800,000.

Ind., South Bend—STATION—New York Central R.R., 466 Lexington Ave., New York City, F. B. Freeman, ch. engr., having plans prepared by Fellheimer & Wagner, 415 Lexington Ave., New York City, 1 and 3 story, 100 x 300 ft., brick, steel and stone, concrete foundation, South St. between Lafayette and Perry Sts.

Mich., Detroit—HOTEL—Durant Hotel Co., H. J. Price, mgr., having plans prepared 6 story and basement, 132 room, rein.-con., brick and steel addition, plain foundation, Saginaw St. $350,000. Engineer and architect's names withheld.

Mich., Flint—HOTEL—Patterson building Co., Harrison and 3rd Sts., having plans prepared by W. H. Maurer, Cleveland, O., 14 story and basement, 112 x 150 ft., rein.-con., brick and steel, plain foundation, Harrison St. $900,000.

Ill., Chicago — APARTMENT — W. O. Bannerman & Co., 77 West Washington St., having sketches made by R. S. De Goyler & Co., 307 North Michigan Ave., 24 story and basement, 45 x 150 ft., rein.-con., brick and steel, 1430 Lake Shore Dr. $1,500,000.

Ill., Chicago—OFFICE and STORE—N. W. MacChesney, 30 North La Salle St., having sketches made by Holabird & Roche, 104 South Michigan Ave. (1st unit) 8 story and basement, 82 x 102 ft., and 48 x 103 ft. twin buildings, East Wacker Dr. and MacChesney St.

Ill., East St. Louis—Y.W.C.A., 317 Missouri Ave., soon lets contract 3 story and basement, 150 x 225 ft., rein.-con., brick and terra cotta, 9th St. and Ohio Ave. $300,000. A. B. Frankel, 1st Natl Bank Bldg. Archts. Noted Mar. 3.

Ill., Evanston — APARTMENT and STORE—Cooper, Winston & Manierre, 112 West Adams St., having plans prepared by Thielbar & Fugard, 219 East Ontario St., 4 story, 70 x 132 ft., rein.-con., brick and stone, Chicago Ave. and Grove St. $300,000.

Ill., Park Ridge—THEATRE, STORE and OFFICE—Zook & McCaughey, archts., 222 West Adams St., Chicago, prepared plans and soon take bids 2 story, basement and tower, 150 x 165 ft., rein.-con., brick and steel, Prospect and Park Aves., here, for W. H. Malone. $450,000. Noted Apr. 28.

Ill., Quincy—HOSPITAL—Blessing Hospital, 1014 Spring St., having preliminary plans prepared by Pond & Pond, 1700 Tower Bldg., and Martin & Floyd, 6 North Michigan Ave., both Chicago, rein.-con., brick and stone hospital. $150,000.

Ill., Rockford — HOTEL — Theilbar & Fugard, archts., 210 East Superior St., Chicago, prepared plans and take bids about Aug. 1, Kent-Wyman Hotel, 10 story and basement, 110 x 170 ft., rein.-con. and brick, Wyman and Chestnut Sts., for Rockford Hotel Co., c/o architects. $1,000,000. Noted June 2.

Wis., Appleton—THEATRE—Saxe Amusement Enterprises, 530 Grand Ave., having plans prepared by Dick & Bauer, 208 3rd St., Milwaukee, 4 story and basement, 72 x 185 ft., rein.-con., brick and steel, 700,000-800,000 cu.ft. floor space, plain foundation, Oneida and Midway Sts. $400,000. Noted Feb. 24.

Minn., Minneapolis—Minneapolis Y.W.C.A., 87 South 7th St., plans rein.-con., brick and stone building. $600,000. Engineer and architect not announced.

Neb., Wilber—COURT HOUSE—J. Korbel, clk. Saline Co.,having preliminary plans prepared by M. L. Evans, Hastings, 3 story and basement, rein.-con., brick and stone court house. $250,000. Noted July 15, 1926.

Mo., Columbia—THEATRE and OFFICE—D. Stone plans 147 x 160 ft., rein.-con., steel and stone theatre and office building. $250,000.

Mo., Kansas City — HOSPITAL — City Hospital Bd., having preliminary plans prepared by Schmidt, Garden & Erickson, 104 South Michigan Bldg., Chicago, Ill., and Greenbaum, Hardy & Schmacher, associated archts., 206 Scarrett Bldg., Kansas City, Mo., rein.-con. hospital, 50th St. and Troots Ave. $1,000,000.

Mo., Kansas City—MEMORIAL—Atkins Memorial Assn., c/o Wight & Wight, archts., 1st Natl. Bank Bldg., having preliminary sketches made rein.-con and marble memorial building. $750,000.

Mo., St. Louis — WAREHOUSE — Stix, Baer & Fuller Dry Goods Co., 6th St. and Washington Ave., having revised plans prepared by Mauran, Russell & Crowell, 1620 Chemical Bldg., altering and constructing 6 story and basement, 79 x 182 ft., rein.-con. and brick addition, Laclede Ave.

Tex., Brownwood—HOTEL—T. Posey, et al, plans 5 story and basement, rein.-con., brick and steel, plain foundation. $300,000.

Tex., Harlingen — HOTEL — Syndicate, c/o A. L. Lewis, and Metropolitan Investment Corp., purchased site and plans 12 story and basement, 110 x 180 ft., rein.-con. and brick, plain foundation, Monroe and 1st Sts. $1,200,000. Engineer and architect announced soon.

Tex., Matagorda—HOTEL and CASINO—Mayside Beach Development Co., c/o Chamber of Commerce, San Antonio, plans 8 story and part basement hotel and casino, Matagorda Bay, here. $700,000. Private plans.

Tex., San Angelo—APARTMENT—A. F. Korn (owner and archt.) purchased site and preparing preliminary plans 5 story, fireproof apartment. $150,000.

Okla., McAlester—HOTEL—Doss Hotel Co., having preliminary plans prepared 7 story and basement, rein.-con. and brick, plain foundation, 2nd St. $400,000. Engineer and architect not selected.

Okla., Oklahoma City — ADMINISTRATION—Southwestern Bell Telephone Co., 11th and Pine Sts., St. Louis, Mo., takes bids about Aug. 11, 14 story and basement, 100 x 140 ft., rein.-con., brick, stone and steel, 3rd St., here. W. K. Knight & Co., 904 Wainwright Bldg., St. Louis, Mo., engrs. E. R. Timlin, c/o owner, archt. Layton, Hicks & Forsyth, 908 Braniff Bldg., associated archts. Contract for foundation and footings for above, to Westlake Constr. Co., Railway Exch. Bldg., St. Louis, Mo., $155,000. Archts. total est. $3,000,000. Noted Feb. 3.

Ore., Astoria—THEATRE—Washington Theatre Enterprises, C. Fischer, mgr., White-Henry-Stuart Bldg., Seattle, Wash., having plans prepared by D. Ford, 630 Lyon Bldg., Seattle, Wash., 1 story, 80 x 100 ft. theatre, here. To exceed $250,000.

California — HOSPITAL, etc. — State Building Comn., Sacramento, having plans prepared by G. B. McDougall, Forum Bldg., Sacramento, probably rein.-con. and brick hospital $150,000, employees cottage $40,000, and boiler and pumping plant, $30,000 all at Eldridge rein.-con. cell building and hospital at Folsom $223,000, hospital buildings, incl. cottage to house 120 patients, day attendants quarters, and resident physician cottage, at Napa, $150,000; rein.-con. hospital, Norwalk, $175,000; rein.-con. hospital, $250,000, and improving hospital $10,000; patients cottage, physicians residence and rein.-con. industrial building $285,000 all in Stockton rein.-con. cell building, San Quentin, $265,000; also hospital buildings, incl. cottage, housing 120 patients, attendants building, resident physician cottage, etc. Ukiah, $214,000.

Calif., Los Angeles — APARTMENT — Evans-Zukin Constr. Co., 1118 South Highland Ave., plans 5 story and basement, brick, Normandie Ave. between 7th and 8th Sts. $150,000.

Calif., Los Angeles—APARTMENT—W. E. Chadwick, archt., Union League Bldg., preparing plans 4 story and basement, 56 x 140 ft., brick, South Figueroa St. $150,000. Owner's name withheld.

Calif., Los Angeles—APARTMENT—W. E. Chadwick, archt., Union League Bldg., preparing plans 5 story and basement, 50 x 150 ft., brick, West 20th St. $150,000. Owner's name withheld.

Calif., Los Angeles—GARAGE, HOTEL, STORE and OFFICE—Vine and Sunset Realty Co., c/o C. F. Plummer, archt., Story Bldg., having plans prepared 105 x 265 ft. garage and hotel, $150,000 or more; also 2 story, 140 x 160 ft., brick store and office building. $150,000 or more, both on Vine St. and Sunset Blvd.

Calif., Los Angeles — STUDIO — Mack Sennett Co., 1712 Glendale Blvd., plans 2 story, 100 x 425 ft. administration building, 2 dressing room buildings, film laboratory, three 200 ft. stages, etc., Ventura and Laurel Canyon Rd. $800,000. Engineer and architect not selected.

Calif., Merced—MAUSOLEUM—G. H. Sanders, c/o W. Hubbert, archt., 110 Sutter St., San Francisco, having plans prepared (1st. unit) rein.-con. mausoleum, here. $50,000. Total $200,000.

Calif., Pomona — HOSPITAL — Pomona Valley Hospital having plans prepared by A. R. Hutchason, Van Nuys Bldg., Los Angeles, 4 story and basement, approximately 50 x 85 ft., rein.-con. addition. $150,000. Noted June 23.

Calif., Redondo Beach—THEATRE—A. Ramish, c/o J. P. Perrine, archt., Lincoln Bldg., Los Angeles, having plans prepared Class "A" theatre. $250,000.

Calif., Sacramento—CAPITOL—California State Building Comn. had plans prepared by Weeks & Day, Financial Center Bldg., San Francisco, state capitol buildings. $250,000.

Calif., Salinas—HOTEL—Caminos Bros., 150 Main St., having plans prepared by R. Wyckoff, Growers Bank Bldg., San Jose, 7 story and basement, concrete, Main St. $350,000. Noted Feb. 10.

Calif., San Rafael—MAUSOLEUM—Tamalpais Memorial Park, Inc., c/o W. Hubbert, archt., 110 Sutter St., San Francisco, hav-

Buildings—Commercial (Continued)

ing preliminary plans prepared (1st unit) rein.-con. mausoleum, here. $80,000. Total $200,000.

Calif., Santa Monica—MAUSOLEUM—G. H. Sanders, c/o W. Hubbert, archt., 110 Sutter St., San Francisco, having preliminary plans prepared (1st unit) rein.-con. mausoleum. $100,000. Total $500,000.

Calif., Ventura — THEATRE — L. A. Smith, archt., Film Exch. Bldg., rejected bids rein.-con., Main and Chestnut Sts., for Amer. Amusement Co., c/o architect. $200,000. Will readvertise. Noted May 5.

Que., Montreal — OFFICE — Bell Telephone Co., 118 Notre Dame St. W., having plans prepared by Barott & Blackader, Canada Cement Bldg., new head office building Beaver Hall Hill and Hayanchetere St. $1,000,000.

Ont., Kingston—OFFICE—Canadian Locomotive Co., Ontario St., plans new head office building. $150,000.

Ont., Toronto — HOSPITAL — Toronto East General Hospital Bd. having plans prepared by J. J. Woolnough, City Hall, and soon takes bids 3 and 4 story and basement, rein.-con., brick and steel, plain foundation, Coxwell Ave. $250,000.

Ont., Toronto — OFFICE and SHOW ROOM — Dominion Rubber Co., Ltd., 1 Front St. E., having plans prepared by R. B. McGiffen, 96 Bloor St. W., and J. L. Havill, 169 Concord Ave., 15 story and basement, 70 x 180 ft., concrete, brick and stone, Front and Yonge Sts. $1,000,000.

B. C., Vancouver—CITY HALL—City defeated $1,000,000 bonds, new city hall.

B. C. Vancouver — OFFICE, WAREHOUSE, GARAGE—Townley & Metheson, archts., 325 Homer St., soon takes bids 1 and 3 story, Smythe and Cambie Sts., for Imperial Oil Co., Smythe and Cambie Sts. $250,000.

Bids Desired

Mass., Brookline (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Chicopee Falls—HOME—Polish Home Assn., Inc., c/o R. B. Warner, archt., 748 State St., Springfield, taking bids 2 story and basement, 65 x 100 ft., rein.-con. and brick, plain foundation, Market and Grove Sts. $150,000.

Mass., Framingham — OFFICE — West Boston Gas Co., 49 Howard St., taking bids 2 story and basement, brick and stone, plain foundation. $150,000 or more. C. M. Baker, 25 Arch St., Boston, archt. Noted May 26.

Mass., Lowell—STORE and OFFICE—G. C. Fairburn, 10 Kearny St., taking bids 4 story and basement, brick and stone, plain foundation, 15-17 Merrimac St. $150,000. H. P. Graves, 40 Middlesex St., archt. Noted July 6.

Mass., Mattapan (sta. Boston)—HOSPITAL—Prendergast Preventorium, G. Hill, doctor, 295 Beacon St., chn. com., taking bids 3 story and basement, irregular shaped, brick addition, plain foundation, 100 Harvard St. $150,000 or more. J. P. Loud, 9 Park St., Boston, archt.

Mass., Norwood — APARTMENT — G. Watson taking bids 3 story and basement, brick, plain foundation, Day St. $150,000. R. H. Stowell, 184 Boylston St., Boston, archt.

Mass., Plymouth — TEMPLE—Plymouth Lodge A. F. & A. M. taking bids 3 story and basement, 50 x 90 ft., brick and stone, plain foundation, Court St. To exceed $150,000. Kendall, Taylor & Co., 142 Berkley St., Boston, archts. Noted Jan. 20.

Mass., Quincy (br. Boston) — APARTMENT—See "Contracts Awarded."

Mass., Weymouth — THEATRE — C. S. Dobson, Whitman St., taking bids 1 and 2 story, basement, and balcony, 60 x 100 ft., brick, steel and stone, plain foundation. $160,000. W. L. Miner, 60 Pemberton Sq., Boston, archt.

R. I., Cranston (mail Providence) — DORMITORY — July 15, by State, Pub. Welfare Dept., State House, Providence, 2 story and basement, brick and steel at State Hospital for Insane, here. $200,000. Clark & Howe, 1208 Turks Head Bldg., Providence, archts. Noted Apr. 28.

R. I., Providence — STORAGE and WAREHOUSE—July 15, by Belcher & Loomis Co., 89 Weybosset St., 4 story, 100 x 120 ft.., rein.-con., plain foundation, West Exchange St. To exceed $150,000. Jenks & Ballou, Grosvenor Bldg., archts.

Conn., Bridgeport—BANK—July 21, by City Natl Bank, C. E. Hough, pres. (selected bidders), 12 story, 60 x 150 ft., brick and steel, Main and John Sts. $800,000. E. G. Southey, 983 Broad St., archt. Dennison & Hirons, 288 Lexington Ave., New York City, engrs. Noted Oct. 21.

Conn., Danbury — APARTMENT — See "Contracts Awarded."

Conn., Hartford — ASYLUM — Hebrew Ladies Orphan Asylum, Inc., S. Cross, 18 Asylum St., taking bids and open same about July 30, 3 story and basement, 45 x 125 ft., brick and steel, Blue Hills and Towers Aves. $150,000. Ebbets & Frid, 15 Lewis St., archts. Noted May 12.

Conn., Hartford — AUTO SALES and SERVICE—July 15, by White Motor Co., c/o H. R. Hadlow, constr. engr., 842 East 79th St., Cleveland, O., 1 story and basement, brick and concrete auto sales and service building, 22,000 sq.ft. floor space, here. Private plans.

Conn., Middletown—OFFICE—July 18, by E. B. Caldwell, Jr., archt., 886 Main St., Bridgeport, 2 story, 60 x 72 ft., brick, steel and marble, Court and Broad Sts., for Middlesex Mutual Assurance Co., c/o architect. $150,000.

Conn., Stamford — APARTMENT — See "Contracts Awarded."

N. Y., New York—THEATRE, STORE and OFFICE—See "Contracts Awarded."

N. J., Bloomfield—APARTMENT—See "Contracts Awarded."

N. J., Irvington (br. Newark)—APARTMENT—See "Contracts Awarded."

N. J., Millburn — APARTMENT — See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awarded."

N. J., Newark—APARTMENT—S. Kimmel, 75 Chadwick Ave., taking sub-bids 4 story, brick and steel, plain foundation, 397 Chancellor Ave. $150,000. H. Blaufox & Kimmel, 131 Thompkins Ave., Brooklyn, N. Y. archt. Noted June 23.

N. J., Plainfield—APARTMENT—Oxford Realty Co., 240 West Front St., taking bids 4 story, brick and steel, plain foundation, West 7th and Liberty Sts. $200,000. R. R. Chatfield, 401 Harrison Ave., Westfield, archts. Noted July 7.

N. J., Summit—COMMERCIAL—July 15, by Pub. Serv. Production Co., archts., Terminal Bldg., Newark, general contract 1 story and basement, 60 x 125 ft., rein.-con., brick and steel, plain foundation, Springfield and Summit Aves., here, for Pub. Serv. Electric & Gas Co., 80 Park Pl., Newark. Archts. est. $150,000.

Pa., Darby—THEATRE, STORE and OFFICE—July 15, by M. H. Lee, archt., 1505 Race St., Phila., 2 story and basement, 144x160 ft., rein.-con., brick and steel, plain foundation, here, for Green & Willig, c/o architect, here.

Pa., Lancaster—PASSENGER STATION —July 25, by Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad St. Sta., Phila., 2 story and basement, 113 x 163 ft., brick, granite and limestone, McGovern Ave. and Christian St., here. W. H. Cookman, Broad St. Sta., Phila., archt.

Pa., Phila.—LABORATORIES—July 21, by Stewardson & Page, archts., 315 South 15th St. 3 story, basement and sub-basement, 53 x 244 ft., 25 x 144 ft., brick, terra cotta and steel, plain foundation, 34th and Spruce Sts., for University of Pennsylvania, 34th and Spruce Sts.

Pa., Phila.—LOFT—July 18, by Manufacturing Exchange Realty Building, c/o W. Goldstein, 1415 Locust St., 16 story and basement, 96 x 161 ft., rein.-con., brick and terra cotta, plain foundation, 232-48 North 11th St. $1,500,000. L. B. Rothschild, 215 South Broad St., archt.

Pa., Upper Darby—BANK, STORE and APARTMENT—July 15, by Ritter & Shay, archts., Packard Bldg., 1 and 4 story, 40 x 112 ft., brick and steel, Market and Ashby Sts., for 69th St. Terminal Title & Trust Co.

D. C., Wash.—EMBASSY—July 25, by F. H. Brooke, associated archt., 1218 Connecticut Ave., embassy building for Great Britain, here. $500,000. Office of Works, London, England, superv. archt. Noted Feb. 19, 1925.

Ky., Louisville—THEATRE—July 20, by J. Eberson, archt., 212 East Superior St., Chicago, Ill., equal to 4 story, 117 x 120 ft., rein.-con., brick and steel, 4th St. near Chestnut St., here, for Theatre Realty Corp. $1,000,000. Noted Mar. 3.

O., Columbus — July 20, by Building Com., Y. W. C. A., 60 South 3rd St., J. A. Beer, chn., 236 15th Ave., 8 story and basement, 90 x 185 ft., brick, steel and stone, South 4th St. $600,000. Miller & Reeves, 205 East Broad St., archts.

Ind., Crawfordsville — HOSPITAL — Montgomery Co. Hospital taking bids 2 story and basement, 80 x 150 ft., rein.-con., brick and steel hospital. $150,000. Boswell & Beeson, Ben Hur Bldg., archts. Noted Apr. 7.

Ill., East St. Louis — OFFICE and STORE — July 16, by P. J. Bradshaw, archt., International Life Bldg., St. Louis, Mo., 2 story and basement, 134 x 136 ft., rein.-con., brick and terra cotta, Collinsville St. and Missouri Ave., here, for Goldman Building Corp., C. E. Richardson, pres., International Life Bldg., St. Louis, Mo. To exceed $150,000.

Ill., Mattoon — OFFICE — July 31, by Berger & Kelley, archts., Lincoln Bldg., Champaign, 3 story and basement, rein.-con., brick and stone, here. $170,000. Owner's name withheld.

Calif., Long Beach — APARTMENT — See "Contracts Awarded."

Calif., Los Angeles — FURNITURE MART—See "Contracts Awarded."

Bids Received

Mich., Detroit—HOSPITAL—H. A. I. Andries, sec. Dept. Health, 1300 Beaubien St., 3 story and basement, rein.-con., brick and steel, plain foundation, Taylor Ave., from W. E. Wood Co., 1805 Ford Bldg., $2,378,200. Noted June 16.

Contracts Awarded

Me., Bangor—HOSPITAL—State Hospital for Insane, superstructure 4 story and basement, 35 x 115 ft., and 35 x 130 ft., brick and stone addition, plain foundation, State St., to O. Nelson, 194 Exchange St. Archts. est. to exceed $150,000.

Mass., Belchertown — ADMINISTRATION — Commonwealth of Massachusetts, Dept. Mental Diseases, Boston, 2 story and basement, brick and stone, plain foundation, to J. Miles & Son, Worcester. Archts. est. $150,000. Noted June 16.

Mass., Boston—OFFICE—E. S. Welch, 73 Tremont St., altering and constructing 4 story and basement, brick addition, plain foundation, 164 Newbury St., to Mitchell & Sutherland, 100 Arlington St. Archts. est. $150,000 or more.

Mass., Boston — STORE and SALESROOM—Suburban Realty Corp., 60 State St., 3 story and basement, 23,000 sq.ft. floor space, rein.-con. and brick, caisson foundation, 170 Brookline Ave., to F. J. Van Etten Co., 100 Boylston St. Archts. est. $150,000.

Mass., Brookline (br. Boston)—APARTMENT—E. T. Maine, 170 Bellingham Ave., Revere, will build 3 story and basement, brick and stone, plain foundation. $150,000. Work will be done by separate contracts. Private plans.

Mass., Charlestown (sta. Boston)—THEATRE, STORE and OFFICE—Owner, c/o Krokyn, Browne & Rosenstein, archts., 220 Devonshire St., Boston, 2 story and basement, 100 x 120 ft., brick and stone, plain foundation, Chelsea and Joiner Sts., here, to B. Steinberg, 6 Beacon St., Boston. Archts. est. $150,000 or more. Owner's name withheld.

Mass., Melrose (Ind. br. Boston)—APARTMENT—E. G. Ritchie, 181 Elm St., Medford, 3 story and basement, brick and stone, plain foundation, Pleasant St., to Burstein & Barrow, 106 Nichols St., Everett. Archts. est. $150,000.

Mass., Norwood—MUNICIPAL—Town, c/o W. G. Upham, archt., Bigelow Blk., 2 story and basement, brick and stone, plain foundation, Washington, Matahan and Market Sts., to E. F. Miner Building Co., 25 Foster St., Worcester. Archts. est. $275,000. Noted Mar. 31.

Mass., Quincy (br. Boston)—APARTMENT—R. Guida, c/o R. M. Stowell, archt., 184 Boylston St., Boston, will build 3 story, 100 x 125 ft., brick and steel Fenno St., here, by day labor. $160,000.

Conn., Danbury—APARTMENT—North Shore Properties, Inc., Room 330, Pershing Bldg., will build brick and steel, incl. 180 car garage, Stone St. $800,000. Work will be done by separate contracts. A. J. Thomas, 2 West 46th St., New York City, archt. Noted Apr. 7.

Conn., Norwalk—Y.M.C.A., 27 Wall St., 4 story, 110 x 154 ft., brick and steel, incl. swimming pool, West Ave., to T. J. Pardy Constr. Co., 1481 Seaview Ave., Bridgeport. Archts. est. $400,000. Noted June 9.

Conn., Stamford—APARTMENT—F. J. Hyland, 149 South Main St., will build 3 story, 65 x 145 ft., brick and steel, Forrest St., by day labor. $150,000. J. Weinstein, 341 State St., New Haven, archt.

Conn., Waterbury—HOSPITAL—Waterbury Hospital, Robbins St., 4 story and basement, 88 x 176 ft., brick, concrete and steel, Robbins St., to Torrington Building Co., 182 Church St., Torrington. Archts. est. $625,000. Noted May 5.

N. Y., Jamaica — THEATRE and OFFICE — M. Tucker, 100 Magnolia Ave. 2 and 4 story, 120 x 120 ft., brick, steel and stone, concrete foundation, Jamaica Ave. and 165th St., to M. Shapiro & Son, 1560 Bway., New York City. Archts. est. $500,000.

Buildings—Commercial (Continued)

N. Y., New York—OFFICE and LOFT—A. Bing, 5th Ave., 22 story and basement, 75 x 100 ft., brick, steel and stone, plain foundation, 20 East 48th St., to Gresham Constr. Co., 587 5th Ave. Archts. est. $500,000

N. Y., New York—OFFICE—New York Central R.R. Co., 446 Lexington Ave., 35 story, 85 x 170 ft., brick, steel and stone, plain foundation, Park Ave. between 46th and 47th Sts., to J. Stewart & Co., Inc., 17 East 42nd St. Archts. est. $11,000,000. Noted Mar. 3.

N. Y., New York—THEATRE, STORE and OFFICE—Rexburg Realty Corp., 1457 Bway., will build 2 story, 185 x 194 ft., brick and steel, plain foundation, 170th St. between Morris and College Aves. $600,000. Work will be done by separate contracts. J. A. and E. L. Larkin, 1457 Bway., archts. and engrs.

N. J., East Orange — APARTMENT — Roseland Constr. Co., 24 Branford Pl., Newark, will build 4 story, brick and steel, plain foundation, North Walnut and William Sts., here. $150,000. Work will be done by separate contracts. L. Kasoff, 164 Market St., Newark, archt. Noted June 30.

N. J., East Orange — APARTMENT — Thirty-Nine Prospect Street Corp., c/o H. Van Duyne, Inc., 2 Washington St., general contract 10 story, brick and steel, plain foundation, 35-43 Prospect St., to Deakman-Wells Co., 921 Bergen Ave., Jersey City. Archts. est. $1,500,000.

N. J., Highland Park (br. New Brunswick)—APARTMENT—Morris & Goodman, c/o H. Rosensohn, archt., 188 Market St., Newark, general contract 3 story, 70 x 90 ft., brick, tile and steel, plain foundation, Graham Pl., here, to E. Murphy, 843 Bway., Bayonne. Archts. est. $150,000. Noted June 23.

N. J., Irvington (br. Newark)—APARTMENT—Vermont Constr. Co., 259 Isabella Ave., will build 3 story, 100 x 100 ft., brick and steel, plain foundation, 18th St. and Courtney Ave. $150,000. Work will be done by separate contracts. G. F. Lederer, 1091 Springfield Ave., archt. Noted June 30.

N. J., Irvington (br. Newark)—APARTMENT—L. Deutsch, 65 Rose Terrace, Newark, will build 4 story, 85 x 100 ft., brick and steel, plain foundation, 13-19 Chester St. $150,000. Work will be done by separate contracts. E. F. Hauser, 11 Clinton Ave., Newark, archt.

N. J., Jersey City — CLUB HOUSE — Dodge & Morrison, archts., 160 Pearl St., New York City, 8 story and basement, 45 x 100 ft. clubhouse, Bergen Sq. and Academy St., here, to Deakman-Wells Co., Newkirk and Bergen Aves., for Odd Fellows Hall Assn., Bergen Sq. Archts. est. $350,000. Noted June 30.

N. J., Millburn — APARTMENT and STORE—Improved Constr. Co., 270 Seymour Ave., Newark, will build 3 story, 75 x 90 ft., brick and steel, plain foundation, Millburn Ave. $150,000. Work will be done by separate contracts. E. F. Hauser, 9 Clinton St., Newark, archt.

N. J., Newark—APARTMENT—J. Leven, 825 Clinton Ave., will build 4 story, brick and steel, plain foundation, Sanford Ave. and Finlay Pl. $150,000. Work will be done by separate contracts. Myer, Bigelow & Shanley, 24 Walnut St., archts.

N. J., Newark—APARTMENT— and GARAGE—Five Hundred Twenty-Three Mount Prospect Avenue Corp., Broad St., general contract, 8 story, brick and steel, plain foundation, 523 Prospect Ave., to W. J. MacEvoy Constr. Co., 85 Academy St. Archts. est., $500,000. Noted June 16. Steam heating, etc. to be installed.

N. J., Newark—APARTMENT—B. Parsonnet, 333 Peshine Ave., will build 4 story, brick and steel, plain foundation, Crawford St. $150,000. Work will be done by separate contracts. Noted June 23.

N. J., Newark — APARTMENT — L. Siegler, 478 Broad St., Newark, will build 4 story, 50 x 90 ft., brick and steel, plain foundation, Montclair Ave. and Ridge St. $150,000. Work will be done by separate contracts. J. Centanni, 142 Market St., archt.

N. J., Newark—BANK and OFFICE—United States Trust Co., 946 Broad St., will build 3 story, brick and steel, plain foundation, Franklin and Broad Sts. $200,000. Work will be done by separate contracts. W. E. Lehman, 972 Broad St., archt. Noted June 16.

N. J., Newark—DEPARTMENT STORE—W. T. Grant, 455 7th Ave., New York City, general contract 3 story and basement, 45 x 119 ft., brick and steel, plain foundation, 83-87 Market St., here, to Phillips-Dykens Co., 350 Madison Ave., New York City.

N. J., New Brunswick—CLUB HOUSE—W. H. Boylan, archt., 143 Albany St., general contract 1 story, brick and steel, plain foundation, Carroll St., to O'Rourke Constr. Co., 88 Guilden St., for Fraternal Order of Eagles, Carroll Pl. Archts. est. $150,000. Noted June 23.

N. J. Ridgewood — CLUB HOUSE — Ridgewood Womans Club, A. T. Dear, pres., 247 East Ridgewood Ave., general contract 2 story and basement, 75 x 95 ft., brick and steel, plain foundation, Monroe and Franklin Aves., to E. Mann, Franklin Ave., Wyckoff. Archts. est. $150,000.

N. J., Trenton — STATE HOUSE — Governor's Office, State House, general contract (1st unit) 4 story, brick and steel, concrete pile foundation, West State St., to Karno-Smith Co., Broad St. Bank Bldg., Trenton, $727,861; electrical work, to Carr & Schuktz, Perry and Stockton Sts., $26,230. Noted June 9.

N. J., Trenton—THEATRE and OFFICE—Hirshfeld & Hildinger, 1560 Bway., New York City, 3 story, brick, steel and stone, plain foundation, North Warren St. and Chauncey Lane, here, to Longacre Eng. & Constr. Co., 345 Madison Ave., New York City. Archts. est. $300,000. Noted July 1, 1926.

N. J., Union—EXCHANGE—New York Telephone Co., 15 Dey St., New York City. general contract 2 story, 100 x 150 ft., brick and steel, plain foundation, Stuyvesant Ave., to F. D. Hyde, Inc., 90 West St., New York City. Archts. est. $150,000. Noted Mar. 31.

Pa., Butler—OFFICE—Phillips Gas & Oil Co., general contract 3 story and basement, 75 x 150 ft., limestone and steel, Main St., to H. Wimer, Butler Savings & Trust Bldg. Archts. est. $150,000. Noted Mar. 17.

Pa., Oil City—LODGE—Knights of Columbus, general contract 3 story and basement, approximately 100 x 120 ft. lodge, to L. O. Boquin, Oil City. Archts. est. $150,000. Noted June 23.

Pa., Phila.—BANK—A. H. Brockie, archt., 154 South 15th St., 1 and 3 story, 25 x 166 ft., rein.-con., brick and steel, plain foundation, 1508 Walnut St., to F. L. Hoover & Son, 1023 Cherry St., for Bioren & Co., 410 Chestnut St. Archts. est. $160,000. Noted June 16.

Pa., Phila. — CITY HALL — Dept. Pub. Wks., G. H. Biles, dir., general contract 15 story and basement, 80 x 100 ft., rein.-con., brick and stone annex, caisson foundation, 13th and Filbert Sts., to F. W. Mark Co., Commerce Trust Bldg., $1,094,800; plumbing, to N. Connolly, 1404 North 18th St., $28,042; and $106,606 respectively; electrical work, to Ellis-McCandless Co., 2319 Sansom St., $77,490. Grand total $1,306,938. Noted June 23.

Pa., Phila. — HOME — A. E. Westover, archt., 109 South 22nd St., 3 story, mezzanine and basement, 56 x 112 ft., brick and steel, plain foundation, 16th and Fitzwater Sts., to Wills Bill Co., 1706 Sansom St., for Lodge 20, B. P. O. E. Archts. est. $150,000. Noted June 16.

Pa., Phila.—STORE and RECREATION—Forum Amusement Co., c/o W. H. Lee, Schaff Bldg., 1 story and basement, 70 x 244 ft., brick and steel, plain foundation, Bridge and Darrah Sts., to David Lutz Co., 23rd and Chestnut Sts. Noted June 16.

Pa., Phila. — WAREHOUSE — Terminal Warehouse Co., Pottash Bros., Fairmount and Delaware Aves., 1 story and basement, rein.-con. and brick, plain foundation, Swanson and Ritner Sts., to Robbins Contg. Co., 1337 North Front St.

Pa., Phila. — WAREHOUSE — Phila. & Reading R.R. Co., C. Dillenbeck, ch. engr., Reading Terminal, 3 story and basement, 110 x 374 ft., rein.-con. and brick, plain foundation, 20th and Hamilton Sts., to W. Steele & Son, 15th and Chestnut Sts. Noted June 16.

Pa., Pittsburgh — APARTMENT—South Hiland Apartments, Inc., general contract 6 story and basement, 97 x 105 ft., brick on hollow tile and steel, plain foundation, Highland Ave. and Howe St., to Toupet Building Co., 3412 5th Ave., $340,000.

Pa., Pittsburgh — LODGE — Knights of Pythias, c/o L. A. Bellinger, 525 5th Ave., general contract 4 story and basement lodge, Center Ave., to Hodder Constr. Co., Talbot Ave., Braddish. Noted Apr. 14.

Md., Baltimore—CLUB—Buckler & Fenhagen, archt., 325 North Charles St., 4 story and basement, irregular shaped, brick and steel addition, plain foundation, 6 West Madison St., to T. Hicks & Son, 106 West Madison St., for Baltimore Club, H. Burnes, pres., Charles and Madison Sts. $150,000. Noted June 23.

W. Va., Wierton—EXCHANGE—Chesapeake & Potomac Telephone Co., general contract 3 story and basement exchange to Engstrom & Wynn, 1117 Chapline St., Wheeling. Archts. est. $150,000.

Fla., Jacksonville — AUDITORIUM and OFFICE—City and Chamber of Commerce, general contract 3 story and basement, 100 x 120 ft., rein.-con., brick and steel, plain foundation, Duval St., to O. P. Woodcock, Realty Bldg., $199,785. Noted Mar. 24.

La., Monroe—OFFICE—J. W. Smith, archt., Ouachita Bank Bldg., 6 story and basement, 90 x 110 ft., rein.-con., brick and steel, Desaird and 2nd Sts., to J. H. Leveck & Sons, St. Marys St., Little Rock, Ark., for P. Bernhardt. Archts. est. $350,000. Noted June 9.

Tenn., Harrogate — ADMINISTRATION and AUDITORIUM — Lincoln Memorial Union, rein.-con., brick and steel, to J. T. Jackson Lumber Co., Lexington, $150,000. Noted June 25, 1925.

O., Akron — HOSPITAL and NURSES HOME—J. Schrembs, bishop, Guaranty Title Bldg., Cleveland, 6 story and basement, 48 x 240 ft., brick, Bedford stone and steel hospital, and 5 story, 42 x 124 ft. nurses home, North Main St., corner Olive St., to Carmichael Constr. Co., Central Savings & Trust Bldg. Archts. est. $800,000.

O., Cleveland—HOSPITAL and NURSES HOME—Charity Hospital, c/o J. E. Crew, East 22nd St. and Central Ave., 2, 3 and 5 story and basement, brick, steel and concrete East 22nd St. and Central Ave., to Lundoff-Bicknell Co., B. F. Keith Bldg. Archts. est. $1,200,000. Noted June 16.

O., Cleveland—WAREHOUSE—May Co., N. L. Dauby, vice-pres. Euclid Ave., 5 story and basement, 237 x 657 ft., brick and rein.-con., Payne Ave., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $1,000,000. Noted June 9.

O., Orient—COTTAGE—J. E. Harper, dir. Dept. Welfare, Columbus, general contract 1 story, basement, and 4 wings, 40 x 250 ft., brick and concrete, Orient Farm for Feeble Minded, here, to A. B. Isabel, 1718 Cleveland Ave., Columbus, $127,566; heating and plumbing, to McAuliffe Bros., Marysville, $58,218. Noted June 16.

O., Portsmouth—TEMPLE—Portsmouth Temple Co., 8 story and basement, stone and rein.-con., incl. auditorium, dining room, store, etc., plain foundation, to H. R. Blagg Constr. Co., 1229 East 3rd St., Dayton, $600,000.

Ind., Ft. Wayne — HOSPITAL and NURSES HOME—Lutheran Hospital Assn., P. Wanbganss, pres., general contract 4 story, 50 x 175 ft., rein.-con., brick and steel, 3024 Fairfield Ave., to Rump-Kintz Co., 210 Medical Arts Bldg., Archts. est. $300,000. Noted May 19.

Ind., Gary—BANK and OFFICE—Ivar Viehe-Naess & Co., archts., 410 North Michigan Ave., Chicago, Ill., general contract 10 story and basement, 125 x 125 ft., concrete, brick, steel and stone, Bway. and 5th St., here, to R. C. Wieboldt Co., 1534 West Van Buren St., Chicago, Ill., for Gary State Bank. Archts. est. $450,000. Noted Mar. 1.

Mich., Detroit—HOSPITAL—Harper Hospital, John R. St., 8 story and basement, 88 x 299 ft., and 80 x 150 ft., rein.-con., brick and stone addition, plain foundation, Brush Blvd., to Bryant & Detwiler Co., 2236 Dime Bank Bldg. Noted May 12.

Mich., Detroit—JAIL—Wayne Co., prison cell work for 6 story and basement, rein.-con., brick and steel, plain foundation, Clinton St., to Southern Prison Co., 4500 Blk. South Presa, San Antonio, Tex., approximately $250,000. Noted June 9.

Mich., Flint—HOTEL—C. N. Agree, archt., 1140 Book Tower Bldg., Detroit, 6 story and basement, 200 room, rein.-con., brick and steel, plain foundation, Detroit and 3rd Sts., to C. S. Barry, 2631 Woodward Ave., Detroit, for Flint Hotel Co. Archts. est. $500,000. Noted Mar. 31.

Ill., Chicago—APARTMENT—Oldefest & Williams, archts., 605 North Michigan Ave., masonry contract 9 story, 75 x 76 ft., brick, 901-909 Buena Park Terrace, to Seipp & Lonergan, 179 North Washten Ave.; and carpentry contract, to Olson Bros., 6401 Euclid Ave., for Riemenschneider, 10 South La Salle St. Archts. est. $350,000. Noted June 23.

Ill., Chicago—APARTMENT—Granger & Bollenbacher, archts., 332 South La Salle St., general contract 13 story and basement, 150 x 150 ft., rein.-con., brick and limestone, 58th St. and Dorchester Ave., to E. P. Strandberg Co., 232 East Erie St., for Syndicate, c/o architects. Noted Apr. 14.

Ill., Chicago—APARTMENT—Alexander & Brand, archts., 64 East Jackson Blvd., masonry contract 3 story, 170 x 175 ft., brick and stone, Maple Ave. and Washing-

Buildings—Commercial (Continued)

ton Blvd., to E. Baaken, Chicago; plumbing, to P. Horn, 1335 West Roosevelt Rd. Archts. est. $450,000. Owner's name withheld. Noted June 9.

Ill., Chicago—HOTEL—R. F. France & Co., archts., 155 North Clark St., masonry contract 3 story, 73 x 174 ft., brick, 536-40 Arlington Ave., to Erickson & Magnusson, 4753 Bway. Ave., for L. P. and E. N. Malone, 155 North Clark St. Archts. est. $200,000.

Ill., Chicago — WAREHOUSE — Milk Dealers Bottle Exch., 2300 West 13th St., masonry and carpentry contract 3 story, 184 x 440 ft. warehouse, 2401-7 and 2355-59 Blue Island Ave., to G. Thompson & Son, 30 North La Salle St. Archts. est. $300,000.

Ill., Waukegan—BANK and OFFICE—A. Alschuler, archt., 28 East Jackson Blvd., Chicago, general contract 8 story and basement, 75 x 90 ft., rein.-con., brick and steel, Washington and Genesse Sts., here, to J. J. Redding & Co., 10 North Clark St., Chicago, for Syndicate, c/o general contractor. Archts. est. $500,000.

Mo., Kansas City—OFFICE—McKecknie & Trask, archts. Bd. of Trade Bldg., general contract 3 story, 86 x 140 ft., brick, steel and rein.-con. addition 10th and Baltimore Sts., to Patti Constr. Co., 626 Lee Bldg. Archts. est. $300,000. Noted June 9.

Mo., St. Louis — STORE and APARTMENT—Dubinsky Realty Co., Wainwright Bldg., 2 story and basement, rein.-con. and brick, on 130 x 143 ft. site, Grand Blvd. and Penrose St., to Ada Building & Investment Co., 808 Chestnut St. Archts. est. $175,000.

Tex., San Antonio — GARAGE — Smith Bros. Properties, Inc., c/o Plaza Hotel, 4 story and part basement, 80 x 190 ft., rein.-con. and brick, plain foundation, Bowens Island-Villita St., to McKenzie Constr. Co., Travis Bldg., approximately $100,000. Noted May 5.

Calif., Antioch—WAREHOUSE—Paraffine Companies, Inc., 475 Brannan St., San Francisco, 1 story, brick warehouse, to Macdonald & Kahn, Financial Center Bldg., San Francisco, $150,000..

Calif., Glendale — HOTEL — H. Hague, 1227 South Central Ave., 4 story and basement, brick, Central Ave. near Kenneth Rd., to Howard & Murphy, 307 West Ivy St., approximately $225,000.

Calif., Long Beach—APARTMENT—R. E. Campbell, 711 Central Bldg., Los Angeles, will build 10 story and basement, 54 x 158 ft., rein.-con. and steel, Linden Ave. near 1st St. Approximately $600,000.

Calif., Los Angeles—APARTMENT—J. H. Jester, Insurance Exch. Bldg., 4 story and basement, brick, Clinton St., to I. Swartz, Insurance Exch. Bldg., approximately $150,000.

Calif., Los Angeles — APARTMENT — Parker & Brill, Commercial Exch. Bldg., 5 story and basement, 60 x 112 ft., brick, South Normandie Ave., to Parker Constr. Co., Commercial Exch. Bldg., approximately $150,000.

Calif., Los Angeles—CLUB—La Mirada del Arce Club, L. E. Behyner, pres., Auditorium Bldg., 6 story, rein.-con., incl. theatre with auditorium 1,000 seating capacity, on 150 x 328 ft. site, Whitley and Franklin Aves., to Meyer & Holler, Wright & Callender Bldg., $250,000.

Calif., Los Angeles—FURNITURE MART—Lloyd & Casler, Inc., 1200 Textile Center Bldg., will build 12 story and basement, 60 x 150 ft., rein.-con., 12th and Santee Sts. $500,000. Work will be done by separate contracts under supervision F. C. Casler, 1200 Textile Center Bldg. W. D. Lee, 704 Textile Center Bldg., archt.

Calif., Los Angeles—GARAGE—E. C. Anthony, Inc., 1000 South Hope St., 4 story and basement, 150 x 160 ft., rein.-con., 10th and Hope Sts., to P. J. Walker Co., Garland Bldg., approximately $250,000.

Calif., Los Angeles—HOTEL—Local Syndicate, 13 story and basement, 80 x 150 ft., rein.-con., 240-48 South Spring St., to A. S. O'Neil, 314 Stimson Bldg. Archts. est. $1,500,000.

Calif., Los Angeles—HOTEL—R. L. Warner, 4 story and basement, brick, Melrose Ave., to F. W. Flingerland, 7015 Melrose Ave., $165,000.

Calif., San Francisco — THEATRE — Capitol Co., c/o Bank of Italy, structural steel contract for theatre, 5,200 seating capacity, Hayes and Market Sts., to U. S. Steel Products Co., Rialto Bldg.

Que., Montreal—OFFICE—Ross & Macdonald, archts., Belmont St., 11 story, rein.-con. and stone office building, to James Shearer, Ltd., St. Patrick St.

Ont., Ottawa—HOTEL—Canadian Natl. Rys., 230 St. James St., Montreal, Que., C. S. Gzowski, ch. engr. constr., steel frame for Chateau Laurier Hotel addition, Rideau St., here, to Dominion Bridge Co., Sparks St. Noted May 26.

Ont., Toronto — APARTMENT — S. T. Floyd, C. P. R. Bldg., general contract 3 story and basement, concrete, steel and stone, Poplar Plains Cres., to Cummings & Howson, 2154 Queen St. E. Archts. est. $150,000. Noted Apr. 7.

Buildings—Industrial

Proposed Work

Mass., Brighton (Boston P. O.)—SERVICE STATION and WAREHOUSE—Heil Hoist Co. 298 North Harvard St., having revised plans prepared by Krug & Smith, Milwaukee, Wis., 1 story, 21,000 sq.ft. floor space, brick and steel, plain foundation, North Beacon and Market Sts. Former bids rejected. Noted June 23.

Mass., Brockton—GARAGE and WELDING SHOP—P. Wychumas, 50 Ames St., Montello, had plans prepared 1 story, rein.-con., plain foundation, Montello and Ames Sts. $40,000. Private plans.

Mass., Dorchester (sta. Boston) — BAKERY — Mattapan Baking Corp., c/o M. E. Levy, archt., 7 Water St., Boston, having plans prepared 1 story, 60 x 150 ft., brick, plain foundation, off Blue Hill Ave. near Mattapan Sq., here. $40,000.

Mass., Hudson—FACTORY—Lynn Ideal Shoe Co., Albany St., Boston, plans 4 story, timber, South St., here. $50,000. Engineer and architect not selected.

N. Y., Buffalo—FOUNDRY—Drop Forge Co., having plans prepared by E. McGeorge, archt. and engr., 3030 Euclid Ave., Cleveland, O., 1 story, brick and steel, here. $75,000.

N. J., New Brunswick—INDUSTRIAL—New Station Island Dye Wks., 16-18 Harvey St., having plans prepared 2 story, 100x100 ft., brick and steel, plain foundation, Harvey St. $40,000. Private plans. Steam heating, boilers, flooring, roofing, pipe and waterproofing.

N. J., Perth Amboy—PLANT—Perth Amboy Dry Dock Co., Broad St., plans rebuilding plant, recently destroyed by fire. $100,000. Engineer and architect not selected.

Pa., Franklin — FACTORY — Chicago Pneumatic Tool Co., 572 West Randolph St., Chicago, Ill., having plans prepared by E. McGeorge, engr. and archt., 3030 Euclid Ave., Cleveland, O., 1 story, 100 x 293 ft., 130 x 220 ft. and 60 x 350 ft., brick and steel, here. $300,000.

O., Alliance—FACTORY—Alliance Toy & Specialty Co., plans 1 story, 20 x 140 ft., brick and steel addition. $40,000.

O., Cleveland — FACTORY — Carnegie Body & Top Co., E. S. Eckstein, secy., 6115 Carnegie, had plans prepared by J. Steffens, Fidelity Bldg., 1 story, 85 x 92 ft., brick, steel and concrete, 6115 Carnegie Ave. $40,000.

O., Columbus — POWER HOUSE — Bd. Trustees Ohio State University, C. L. Steeb, secy., having plans prepared by J. N. Bradford, Ohio State University, 1 story, brick, steel and concrete, on campus. $125,000.

O., Wooster — POTTERY PLANT — Coxon-Belleck China Co. soon takes bids 1 story, 20 x 47 ft., brick, steel and concrete addition, East Bowman St. $40,000.

Mich., Pontiac—COACH PLANT—Yellow Truck & Coach Mfg. Co., General Motors Bldg., Detroit, plans 3 story, 110 x 340 ft. assembly plant, 1 story 360 x 600 x 1,860 ft. body plant, 100 x 100 ft. power plant, and 2 story administration building, rein.-con., brick and steel, South Blvd. $8,000,000. Private plans. Noted June 23.

Ill., Moline—HEATING PLANT—Montgomery Elevator Co., foot 20th St., A. E. Montgomery, pres., having plans prepared by Cervin, Horn & Stuhr, Safety Bldg., Rock Island, new heating plant. $75,000.

Minn., Minneapolis—FACTORY—W. H. Wheeler, archt. and engr., 1110 Metropolitan Life Bldg., soon lets contract 4 story and basement with 6 story tower, 165 x 250 ft., rein.-con., brick and stone, Bway. and Stinson Blvd., for Cream of Wheat Co., D. F. Bull, treas. and mgr., 5th St. and 1st Ave. N. $1,000,000. Noted May 5.

Kan., Atchison—RADIO PLANT—Steinite Laboratories had plans prepared by Homer, Wyatt & Rhodes, archts. and engrs., 468 Bd. of Trade Bldg., Kansas City, Mo., and soon lets contract 4 story and basement, 61 x 113, rein.-con., and brick factory. $175,000. Noted Mar. 3.

Mo., Kansas City—PRINTING PLANT—Smith Grieves Co., 716 Baltimore Ave., having plans prepared by Holden, Ferris & Barnes, 414 New York Life Bldg., 2 story and basement, 60 x 120 ft., rein.-con. and brick, 17th and Washington Sts.

Tex., Amarillo — Soon takes bids 6 in. rein.-con. paving 7,000 yd. Van Buren St., $30,000; and 8 in. gravel surfacing 1 mi. Western Ave., 48 ft. $50,000. H. B. Jones, Amarillo, engr.

Tex., Eastland—POWER PLANT—Oil Belt Power Co., c/o J. E. Lewis, vice-pres., plans power plant improvements for plant point 3 mi. south of here, incl. 15,000 k.w. turbine with accompanying boilers, etc. $400,000 funds appropriated. Private plans.

Calif., South San Francisco—PLANT—Pacific Coast Steel Co., Rialto Bldg., plans 60 x 120 ft. corrugated iron and steel addition to galvanizing plant, and 80 x 290 ft. rolling mill addition.

Calif., Stockton—PLANT—Union Ice & Cold Storage Co., 354 Pine St., San Francisco, plans rein.-con. addition, Mormon Channel. $300,000. Eng. Dept. of Owners, engrs.

B. C., Fernie—SHOPS—Morrissey Michel Ry., W. R. Wilson, pres., plans rebuilding locomotive shops destroyed by fire. $50,000.

Bids Desired

Mass., Cambridge (Boston P. O.)—FACTORY—Tailby Nason & Co., 368 Congress St., Boston, taking bids 3 story, 50 x 90 ft., brick, plain foundation, Amherst and Carlton Sts. $50,000. F. E. Leland, 238 Main St., engr.

Mass., Hyannis—REPAIR, SHOWROOM and GARAGE—J. H. Connolly, Depot Sq., taking bids 1 story, brick, Centre St. $40,000. Private plans.

N. J., Linden—FACTORY, OFFICE and LABORATORY—See 'Contracts Awarded."

Pa., Phila.—WAREHOUSE—U. S. Gypsum Co., 300 West Adam St., Chicago, Ill., taking bids 1 story, 60 x 200 ft., rein.-con. and brick, wood pile foundation, 58th and Schuylkill Sts. Private plans.

O., Wheelersburg — FACTORY — Wheelersburg Wood-Ware Co., taking bids 2 story and basement, 56 x 167 ft., brick, steel and concrete factory. $50,000. Taylor & Kenny, Portsmouth, archts.

Ind., Angola—POWER PLANT—Aug. 1, by Steuben Co. Comn., F. O. Watkins, aud., brick and steel power plant, brick boiler room concrete coal pits, radial brick chimney, concrete pipe tunnels. $50,000. E. I. Brown, 309 First Natl. Bank Bldg., Ft. Wayne, archt. Steam heating.

Contracts Awarded

Vt., Canaan — POWER HOUSE — New England Pub. Serv. Co., new power house, repairing crib dam and pipe line, to Morton C. Tuttle Co., 862 Park Sq. Bldg., Boston, Mass.

Mass., Cambridge (Boston P. O.)—REPAIR and SERVICE GARAGE—R. H. O'Neil, 1384 Massachusetts Ave., 1 story, 100 x 120 ft., rein.-con. and brick, plain foundation, 47 Austin St., to J. D. and G. J. Green, 9 Astor St., Boston. Archts. est. $40,000 or more.

Mass., Fall River — TRANSFORMER HOUSE — Fall River Electric Light Co., 85 North Main St., 2 story, rein.-con. and brick, plain foundation, Jenks St. near Pleasant St., to John Crowe Co., Inc., 486 2nd St. Archts. est. $40,000.

Mass., Malden (br. Boston)—GARAGE and REPAIR SHOP—L. M. Fowler, 424 Pleasant St., 1 story, rein.-con. and brick, plain foundation, to P. J. Griffin, 42 Metcalf St., Medford. Archts. est. $40,000.

Mass., Shrewsbury — PLANT, STOREHOUSE and GARAGE—Chelmsford Ginger Ale Co., Lowell, 3 story, 60 x 80 x 245 ft., rein.-con. and brick, plain foundation, to L. Rocheford & Son, 44 Front St. Archts. est. to exceed $40,000. Noted June 23.

Mass., Somerville (br. Boston) — FACTORY—Consolidated Paper Bag Co., Boynton Rd., 2 story, brick, plain foundation, to N. Hurwitz, 294 Washington St., Boston. Archts. est. $40,000.

Mass., Springfield—ROUNDHOUSE and REPAIR SHOP—Boston & Maine R.R., W. J. Backes, ch. engr., North Sta., Boston, 1 story, 79 x 194 ft., brick and steel, Columbus Ave., here, to Tredennick, Billings Co., 10 High St., Boston. Engrs. est. $73,000.

N. Y., Maspeth—MANUFACTURING—Ideal Chair Co., 1406 Metropolitan Ave., Brooklyn, 3 story, rein.-con., plain foundation, Grand St. and Garrison Ave., here, to White Constr. Co., Inc., 95 Madison Ave., New York City. Archts. est. $400,000.

Buildings—Industrial (Continued)

N. J., Clifton (Ind. br. Passaic) — FACTORY — Jersey Carpet Co., 12 Central Ave., Passaic, general contract 3 story, rein.-con., brick and steel, plain foundation, to L. and G. Building Co., 21 Elm St., Passaic. Archts. est. $60,000.

N. J., Elizabeth — POWER PLANT — Pub. Serv. Electric & Gas Co., Terminal Bldg., Park Pl., Newark, general contract altering 2 story, 68 x 100 ft., brick and steel, 72 West Jersey St., here, to Pub. Serv. Production Co., 80 Park Pl., Newark. Archts. est. $60,000.

N. J., Linden—FACTORY, OFFICE and LABORATORY — Radio Electric Clock Corp., 50 Church St., New York City, will build 1 story, 40x100 and 60x100 ft., brick and steel, plain foundation, here. $55,000. Work will be done by separate contracts. W. Mayer, Jr., & R. E. Genez, 711 Bergenline Ave., West New York, archts.

N. J., Irvington (br. Newark) — FACTORY — Strait & Richards, Inc., Selvage St., general contract 1 story, 100 x 100 ft., rein.-con., brick and steel, plain foundation, 23-43 Selvage St., to Fatzler Co., Inc., 676 South 16th St., Newark. Archts. est. $40,000.

N. J., Trenton—PLANT—Golding Sons Co., Peace St., 1 story, 66 x 74 ft., and 36 x 38 ft., brick flint mill, here, to C. J. Smith Constr. Co., 204 Academy St., $250,000. Noted Mar. 17.

Pa., Lansdale—WAREHOUSE—Bridgeman Co., 130 South 30th St., Phila., 1 story and basement, 50x200 ft., rein.-con., brick and steel, plain foundation, here, to Franklin M. Harris Co., 1520 Parrish St., Phila.

Pa., Phila.—SHOP and OFFICE—Ballinger Co., archts., 12th and Chestnut Sts., general contract 1 and 2 story, 63x100 ft., brick and steel, plain and cassion foundations, 613-23 South 24th St., to G. W. Wagoner, 909 South 25th St. Noted May 19.

Pa., Phila.—MANUFACTURING—Gap Darrow Co., 2 story and basement, 20 x 100 ft., rein.-con. and brick addition, plain foundation, 5623 Germantown St., to S. Harting & Son, 20 East Johnson St.

Pa., Phila. — FACTORY — Harris & Richards, archts., Drexel Bldg., 4 story and basement, 80 x 90 ft., rein.-con., brick and steel, plain foundation, Noble and 5th Sts., to F. A. Havens Co., 245 North 19th St., for Walter P. Miller Co., 452 York Ave Archts. est. $80,000. Noted June 30.

Pa., Phila.—MANUFACTURING—Rufh Glass Co., 3 story and basement, 60 x 60 ft., brick and steel addition, plain foundation, 10th and Hallowell Sts., to W. P. Cameron Eng. Co., Parkard Bldg.

Fla., Jacksonville — POWER PLANT — City, general contract (1st unit) main building. Tallyrand Ave. Power Station, to Hearn Constr. Co., Lutz Bldg., $197,563. Archts. total est. 1st unit $500,000. Noted Dec. 9.

O., Canton — NEWSPAPER PLANT — Daily News Printing Co., 402 2nd St. N. W., 2 and 3½ story, 66 x 200 ft., brick and Indiana limestone, 5th and Market Sts., to G. A. Fuller Co., Inc., 140 South Dearborn St., Chicago, Ill., $200,000.

O., Cleveland — FACTORY — Billings-Chapin Co., N. O. Chapin, pres., 1163 East 40th St., 4 story and basement, 60 x 120 ft., brick and steel, 1163 East 40th St., to G. A. Rutherford Co., 2725 Prospect Ave. Archts. est. $150,000.

O., Cleveland — FACTORY — Sten Fiber Co., 2359 East 67th St., 1 story, 50 x 130 ft brick and steel, 5321 Bower Ave., to G. Pelton, 2448 Euclid Blvd., Cleveland Heights. Archts. est. $40,000. Private plans.

Ind., Elkhart — FOUNDRY and MACHINE SHOP—Mundie & Jensen, archts., 39 South La Salle St., Chicago, Ill., general contract 1 story, 200 x 350 ft., concrete and steel, here, for Curtain Supply Co., to R. Sollitt Constr. Co., South Bend, boilers, to Connolly Boiler Co., 1170 Ivanhoe Rd., Cleveland, O.; stokers, to Combustion Eng. Co., 38 South Dearborn St., Chicago, Ill.; sprinklers, to Viking Auto Sprinkler Co., 450 East Ohio St., Chicago, Ill.; tank for sprinkler, to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill. Archts. est. approximately $200,000.

Ill., Pinckneyville — FACTORY — Price Shoe Co., 1709 Locust Blvd., St. Louis, Mo., 1 story, 48 x 160 x 179 ft., brick and concrete, to Connors & Kissington, c/o job, Pinckneyville.

Mo., St. Louis—ICE CREAM FACTORY —Peverly Dairy Co., 1001 South Grand Blvd., 4 story and basement, 60 x 220 ft., rein.-con. and brick, Grand and La Salle Blvds., to Fruin-Colnon Contg. Co., Merchants-Laclede Bldg. Archts. est. $300,000.

Ark., Ft. Smith—BAKERY—Ft. Smith Biscuit Co., 201 South 5th St., general contract 2 story and basement, brick, to O'Neal & Drake, 613 North 13th St., approximately $50,000. Noted June 9.

Ark., Magnolia—TEXTILE MILL—Magnolia Cotton Mills Co., general contract 137 x 260 ft. mill, 100 x 125 ft. warehouse, and 22 x 43 ft. boiler house, brick and timber, concrete foundations, to T. S. Byrne Eng. & Contg. Co., Ft. Worth Natl. Bank Bldg., Ft. Worth, Tex., approximately $121,000. Noted May 26.

S. D., Sioux Falls—PACKING PLANT—John Morrell & Co., general contract 6 story and basement manufacturing plant; and 2 story top addition to packing plant, rein.-con. and brick, to George J. Grant Constr. Co., 904 Exch. Bank Bldg., St. Paul, Minn., approximately $250,000. Noted Jan. 13.

Tex., Corpus Christi — WAREHOUSE — R. A. Thompson, 1 story, 100,000 sq.ft. floor space, concrete warehouse, to L. T. Wright & Co., 907 Builders Exch. Bldg., San Antonio, approximately $70,000.

Utah, Provo—BY-PRODUCT PLANT—Columbia Steel Corp., 23 Becker type ovens, etc., addition to by-product plant, to Koppers Constr. Co., Union Trust Bldg., Pittsburgh, Pa.

Calif., Belvedere — FACTORY — B. F. Goodrich Co., South Main St., Akron, O., 5 story, 250 x 1,200 ft. main building, 100 x 200 ft. each power house, warehouses, garages and engine buildings, on 45 acre site, Mines Ave. in Union Pacific Industrial tract, near here, to Foundation Co., 120 Liberty St., New York City, $5,000,000. Noted June 9.

Ont., Cornwall — SILK FACTORY — Courtaulds Ltd., Montreal, Que., silk factory addition, here, to Foundation Co. of Canada, Ltd., 746 Sherbrooke St. W., Montreal, Que., $300,000. Noted Nov. 4.

Ont., Toronto — LAUNDRY — Parisian Laundry Co. Ltd., 610 King St. W., general contract 2 and 3 story, rein.-con., brick and steel, plain foundation, Bathurst St., to W. J. Trimkle, 73 Adelaide St. W. Archts. est. $350,000.

Buildings—Educational, Religious

Proposed Work

Mass., Lawrence—CHURCH—Primitive Methodist Church, F. Dracup, pastor, 43 Osgood St., having plans prepared by Ashton, Huntress & Alter, 477 Essex St., altering and constructing 1 story and basement, brick and stucco addition, plain foundation, Salem St. $150,000.

Mass., Rockland — SCHOOL — Town, C. Varney, chmn. com., having sketches made by J. W. Beal Sons Co., 185 Devonshire St., Boston, 3 story and basement, brick and stone, plain foundation, Memorial Park. $350,000.

Mass., Walpole—HIGH SCHOOL—City, School Bd., having plans prepared by McLaughlin & Burr, 88 Tremont St., Boston, 2 story and basement, brick and steel addition. $275,000.

Mass., Watertown — CHURCH — Roman Catholic Parish (being formed) F. E. Rogers, 280 Main St., Woburn, pastor, plans church. $150,000 or more. Engineer and architect not selected.

Mass., Worcester — CHURCH — Notre Dame Ascension Parish, T. O'Leary, pastor, soon lets contract, brick and stone. Salem Sq. $150,000. D. R. Baribault, 1550 Main St., Springfield, archt. Noted May 26.

Conn., Wallingford — INFIRMARY — Choate School having plans prepared by Cram & Ferguson, 248 Boylston St., Boston, Mass., 1 story, 42 x 125 ft., brick and stone infirmary. $150,000. Noted June 23.

N. Y., Great Neck—HIGH SCHOOL—Bd. Educ. having preliminary plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, N. J., 3 story, brick and steel, plain foundation. $800,000.

N. Y., Syracuse—SCHOOL—City having plans prepared by A. Partridge, City Hall, 2 story, 60 x 250 ft., rein.-con., brick and steel, plain foundation, in Eastwood. $150,000. N. F. Pitts, Jr., City Hall, engr.

N. J., Elizabeth—SCHOOL—Bd. Educ., 417 South Broad St., plans brick and steel, Cross Ave. $300,000. Engineer and architect not selected.

N. J., Glassboro — DORMITORY and COTTAGE—State Building Comn., Capitol, Trenton, having plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, 2 story, brick and steel, plain foundation, State Normal School Grounds, here. $150,000.

N. J., Little Ferry—SCHOOL—Bd. Educ., Boro Hall, plans 2 story, brick and steel, plain foundation. $150,000. Engineer and architect not selected.

N. J., Newark — SCHOOL — Bd. Educ., Broad and Green Sts., having plans prepared by F. Grad, 1023 Broad St., 3 story, brick and steel, plain foundation, Bagraw Ave. $350,000.

Tenn., Jamestown — SCHOOL — State Building Comn., Nashville, Fentress Co. and Alvin C. York fund, plan Agricultural Institute, near here. $150,000. P. L. Hamed, chn. State Bd. Educ., Nashville. Noted June 25, 1925.

O., Columbus—CHEMISTRY and LABORATORY—Bd. Trustees Ohio State University, C. E. Steele, secy., having plans prepared by J. N. Bradford, Ohio State University, 5 story and basement, 84 x 150 ft. chemistry building addition, on campus, $300,000; also 2 story, 40 x 92 ft. laboratory on Gibraltar Island in Lake Erie, $60,000, both, brick, stone and concrete.

O., Columbus — LIBERAL ARTS — Bd. Trustees Ohio State University, C. E. Steele, secy., having sketches made by J. N. Bradford, Ohio State University, remodeling and

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Buildings—Educational, Religious (Cont.)

constructing 4 story and basement, brick and stone addition, on campus. $400,000.

O., Wooster—CHURCH—First Presbyterian Church having plans prepared by J. C. Fulton & Son, Uniontown, Pa., 1 and 2 story and basement church. $225,000.

Ind., Bloomington—CHEMISTRY—University of Indiana having preliminary plans prepared by R. F. Daggett, 922 Continental Bank Bldg., Indianapolis, 1 story and basement, 70 x 172 ft., rein.-con., brick and steel chemistry building. $160,000.

Ind., Indianapolis — HIGH SCHOOL — School Comrs., 150 North Meridian St., having plans prepared by Vonnegut-Bohn-Mueller, 608 Indiana Trust Bldg., Technical High School, rein.-con. brick and steel, incl. auditorium, 5,000 seating capacity, 1500 East Michigan St. $450,000.

Ind., Indianapolis — SCHOOL — School Comrs., 150 North Meridian St., having preliminary plans prepared School 73, rein.-con , brick and steel, incl. auditorium, 4101 East 30th St. $400,000. Engineer and architect not selected.

Ind., Indianapolis—SUNDAY SCHOOL—Tabernacle Presbyterian Church having plans prepared by J. W. C. Corbusier, Keith Bldg., Cleveland, O., brick and steel, 34th St. and Central Ave. $300,000.

Ind., Richmond—NURSES HOME—Reid Memorial Hospital, T. C. Harrington chn. building com., having plans prepared by W. Scholer, Painters Bldg., Lafayette, rein.-con., brick and steel nurses home. $155,000.

Ind., Munice—TRAINING SCHOOL—Bd. Trustees Ball Normal School having sketches made by Snyder & Babbitt, 16 East Broad St., Columbus, O., 4 story and basement, concrete, brick and stone school. $300,000.

Ill., Rock Island—HIGH SCHOOL and ATHLETIC FIELD—Bd. Educ., c/o E. F. Burch, secy., having preliminary plans prepared by Cervin, Horn & Stuhr, Safety Bldg., 3 story, rein.-con., brick and stone, between 12th and 17th Sts. and 23rd and 25th Aves. $1,000,000.

Ill., Rock Island—SCHOOL—Bd. Educ., J. F. Whittier, pres., takes bids about Aug. 15, 3 story, rein.-con. and brick school. $150,000. Cervin, Horn & Stuhr, Safety Bldg., archts.

Mo., St. Louis—NURSES HOME and SCHOOL—Bd. Trustees Shriners Hospitals for Crippled Children, J. R. Watt, secy., 24 James St., Albany, N. Y., rejected bids 3 story and basement, 99 x 154 ft., and 27 x 38 ft., rein.-con. and brick, Euclid and McKinley Aves., here. $200,000. Will readvertise. Hentz, Adler & Shutze, 1330 Candler Bldg., Atlanta, Ga., and W. B. Ittner, 911 Locust St., St. Louis, Mo. archts.

Mo., Springfield — CHURCH AUDITORIUM—First Baptist Congregation, L. M. Hale, pastor, 457 South Ave., having preliminary plans prepared brick and concrete, 5th and Seminole Sts. $150,000.

Tex., Borger (Plemons P. O.)—HIGH SCHOOL—Voted $200,000 bonds, new high school, for Bd. Educ. (Ind. School Dist.).

Tex., Canyon — EDUCATIONAL — West Texas State Teachers College, c/o J. A. Hill, pres., plans 3 or 4 story part basement, fireproof building. $350,000 appropriated.

Tex., Harrisburg — HIGH SCHOOL — Voted $400,000 bonds, high school.

Tex., Harrisburg — HIGH SCHOOL — Voted $260,000 bonds, new Junior High School. Address J. O. Webb, c/o Bd. Educ., Harrisburg.

Ore., Portland—SCHOOL—School Dist. 1, 7th and Clackamas Sts., had plans prepared by G. H. Jones, 7th and Clackamas Sts., and soon takes bids concrete and brick, Portsmouth Ave. To exceed $250,000.

Calif., Berkeley — DORMITORY and SCIENCE—University of California having plans prepared by G. W. Ke'ham, 315 Montgomery St., San Francisco, men's dormitory, $250,000 or more, and science building, $150,000 or more, both fireproof on University Campus.

Calif., Glendale—HIGH SCHOOL—Glendale Union High School Dist., voted $1,400,000 bonds, purchasing site, new high school, and addition to Bway. High School.

Calif., Los Angeles—UNIVERSITY—Los Angeles University, c/o K. B. Norswing, Fullerton, and W. J. Gram, 3923 West 6th St., plans university. $5,000,000.

Calif., Maricopa — COMMUNITY CENTER—E. G. Lewis, c/o Roth & Parker, archts., Hollywood Bldg., Los Angeles, having plans prepared community center, incl. concrete swimming pools, 50 x 100 ft. bath house, club buildings, etc. $200,000.

Calif., Monrovia—HIGH SCHOOL—Monrovia City High School Dist., D. H. Ray, secy., voted $625,000 bonds, high school.

Que., Montreal — CHURCH — Christian Science Church, 41 Clorse St., having plans prepared by A. D. Thacker, 1100 Beaver Hall Hill, and soon takes bids stone and steel church. $250,000.

B. C., Vancouver—SCHOOL, etc.—Soon takes bids new school and roads. $1,135,000.

Bids Desired

Mass., Everett (br. Boston)—SCHOOL, etc.—City, C. Bruce, chn. bldg. com., 50 Norwood St., taking bids, 2 story and basement, brick and stone addition, plain foundation, Summer St. $150,000. F. I. Cooper Corp., 172 Tremont St., Boston, archts. Noted May 19.

R. I., Howard—DORMITORY—July 15, by Pub. Welfare Dept., State House, L. Putnam, chn., Providence, 3 story and basement, brick, plain foundation, at State Hospital for Mental Diseases, here. $150,000 or more. Clarke & Howe, Turks Head Bldg., Providence, archts.

N. Y., Brooklyn—SCHOOL—July 27, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., general contract P. S. 225, Ocean View Ave. from Humbert to Ripple Sts., Brighton Beach, here, for Bd. Educ., 500 Park Ave., New York City.

N. Y., Brooklyn—LIBRARY—July 27, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, general construction south or Flatbush Ave. Wing, Brooklyn Pub. Library, Prospect Park Plaza between Flatbush Ave. and Eastern Parkway.

N. J., Newark — APARTMENT — See "Contracts Awarded."

N. J., Newark—BANK and OFFICE—See "Contracts Awarded."

N. J., Ogdensburg—SCHOOL—July 18, by Bd. Educ., general contract 2 story and basement, 93 x 130 ft., brick and steel, plain foundation. $150,000. Rasmussen & Wayland, 36 West 47th St., New York City, archts.

Pa., Altoona—HIGH SCHOOL—Aug. 1, by W. N. Decker, secy., Altoona School Dist., 1500 6th Ave., 3 story and basement, 25 x 400 ft., rein.-con., brick and steel addition to Senior High School 14th St. $800,000. Hersh & Shollar, Commerce Bldg., archt. Noted Feb. 3.

Ind., West Lebanon—SCHOOL—July 19, by G. L. Pence, trustee Pike Twp., 64 x 100 ft., brick and concrete addition to grade and high school. L. L. Johnson, Farmers & Merchants Bank Bldg., Attica, archt.

Mich., Waterford—SCHOOL—July 19, by A. B. Hayes, secy. Bd. Educ., 2 story and basement, rein.-con., brick and steel, plain foundation, Elizabeth Lake Rd. $150,000. Lane, Davenport & Peterson, 1017 Charlevoix Bldg., Detroit, archts. Noted June 30.

Tex., Abiline—SUNDAY SCHOOLS—First Baptist Congregation, c/o W. Jackson, taking bids two 4 story 65 x 140 ft., rein.-con. and brick annexes, plain foundations, North 3rd and Hickory Sts. $150,000. W. Nichol & G. F. Campbell, 29-30 Radford Bldg., archts.

Tex., San Antonio—CHURCH and SUNDAY SCHOOL — Methodist Congregation, c/o pastor, taking bids 2 and 4 story, 91 x 138 ft., rein.-con. and brick, plain foundation, Woodlawn and Belknap Sts. $175,000. Adams & Adams, c/o Builders Exch. Bldg., archts.

Contracts Awarded

Me., Hinckley — CHAPEL — Good Will Home Assn., G. W. Hinckley, 1 story and basement, brick, stone, and marble, plain foundation, to H. Purrington, 65 Temple St., Waterville. Archts. est. $150,000.

N. H., Hanover — DORMITORY and NATURAL SCIENCE—Dartmouth College, 4 story and basement, 110 x 135 ft., brick and stone, North Main St., to Hegeman-Harris Co., 360 Madison Ave., New York City. Archts. est. $150,000 or more. Noted June 2.

Mass., Cambridge (Boston P. O.) — DORMITORY—Harvard University, altering and constructing 4 story and basement, brick addition to Holyoke House, plain foundation, to E. A. Abbott Co., 3 Park St., Boston. Archts. est. $150,000. Noted June 30.

Mass., Dedham—HIGH SCHOOL—Town, F. E. Grant, ch. com., general contract altering and constructing 2 story and basement, brick addition, plain foundation, Bryant St., to H. J. Ferguson, 62 Macomber Terrace; plumbing, heating and ventilating, to R. B. Crocker Co., 107 Massachusetts Ave., Boston.

Mass., Dorchester (br. Boston) — SCHOOL — City of Boston, Schoolhouse Dept., 2 story basement and 2 wings, 60 x 70 ft., brick and limestone addition to Grover Cleveland School, plain foundation, Charles St., here, to M. Cummings, 43 Tremont St., Boston, $114,000.

Mass., Falmouth—SCHOOL—Town, supt. schools, for Teaticket School, 2 story and basement, brick and stone, incl. gymnasium and auditorium, to Eastern Constr. Co., 210 Main St., Woonsocket R. I. Archts. est. $150,000. Noted Mar. 24.

Mass., Leominster—NURSES HOME—Leominster Hospital Assn., W. H. Cropper, pres., 3 story and basement, brick and stone, plain foundation, to Wiley & Foss, Central St., Fitchburg, Archts. est. $150,000. Noted May 19.

Mass., Lexington—CHURCH and PARISH HOUSE—First Baptist Society, J. H. Jenner, pastor, 1 and 2 story and basement, brick and stone, plain foundation, to Custance Bros., 54 Bedford St. Archts. est. $150,000 or more.

Conn., Thompsonville — CHURCH — St. Adelberts Parish, 1 story, brick and stone, to W. Savage, 148 Pearl St. Archts. est. $150,000. Noted June 16.

Conn., Willimantic — SCHOOL — State Normal School, 2 story and basement, brick and steel addition, Valley St., to Bartlett Brainard Co., 252 Asylum St., Hartford. Archts. est. $200,000. Noted June 16.

N. Y., New York—SCHOOL—Christian Brothers Institute, c/o P. G. Stadler, archt., 16 East 43rd St., 4 story and basement, 112 x 128 ft., brick and steel, plain foundation, Walton Ave. and 164th St., to Newenhous Co., Inc., 16 East 43rd St. Archts. est. $500,000.

N. Y., Rochester—SCHOOL—Bd. Educ., masonry contract Lexington School 34, 2 story and basement, 146 x 193 ft., brick and concrete plain foundation, Lexington Ave. and Holmes St., to A. Friederich & Sons Co., 710 Lake Ave., $150,609. Noted Apr. 28.

N. J., Newark—CHURCH and SUNDAY SCHOOL — Mt. Pleasant Baptist Church, 330 Union Avenue, Belleville, general contract 2 story and basement, 70 x 120 ft., brick and steel, plain foundation, Lincoln Ave. near and Belleville Ave., here to Becker Constr. Co., 361 Grove St. Archts. est $150,000.

N. J., Princeton—SCHOOL—Princeton University, general contract 3 story, brick and steel, plain foundation, McCormack Hill, to Matthews Constr. Co., Alexander St. Archts. est. $150,000.

Pa., Homer City—SCHOOL—Bd. Educa., general contract 2 story and basement, brick and steel, to Dick Constr. Co., Clairton, Archts. est. $150,000.

O., Cincinnati — SCHOOL — Bd. Educ., Denton Bldg., 3 story and basement, 532,000 cu.ft. floor space, brick and rein.-con., plain foundation, Herschel St., to D. Gordon, Burnet St., $150,235. Noted Feb. 3.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., 2 story and basement, rein.-con., brick and steel, plain foundation, Wisconsin Ave., to Stibbard Constr. Co., 3000 Grand River Ave., $156,652. Noted June 2.

Ill., Macomb—GYMNASIUM and POWER HOUSE—Western Illinois State Teachers College, gymnasium and power house, to J. C. Huntzinger & Co., Security Bldg., Davenport, Ia., $150,000.

Minn., Mankato—SCHOOL—Bd. Educ. general contract 2 story and basement, 125 x 142 ft., rein.-con. and brick school, to E. Carlstrom, Mankato, approximately $250,000. Noted June 9.

Mo., Columbia—SOCIAL CENTER and CHURCH — First Baptist Congregation, c/o L. W. Smith, pastor, 3 story and basement, 125 x 180 ft., rein.-con., brick and stone, Bway. and Waugh St., to Simon Constr. Co., Columbia. Archts. est. $250,000. Noted May 5.

Mo., St. Louis — CHURCH — St. James Roman Catholic Parish, c/o P. J. O'Connor, pastor, Tamm Ave., 1 story and basement, rein.-con., brick and Bedford stone, plain foundation, here, to Gillespie & Daly, International Life Bldg. Archts. est. $150,000 Noted Apr. 21.

Calif., San Francisco—HIGH SCHOOL—City and San Francisco Co., general contract South Side High School, rein.-con., to McDonald & Kahn, Financial Center Bldg., $248,249.

Federal Government Work

Proposed Work

Conn., New London—Riprapping—Spec. 5437—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans riprapping along waterfront at Naval Submarine Base, here. L. E. Gregory, ch. of bureau.

Federal Government Work (Continued)

Texas—Dredging, etc.—U. S. Engineer Office, Galveston, plans dredging, clearing, etc., in Sabine Neches $800,000, in Houston Texas Ship Channel $500,000, Galveston Channel $250,000, Galveston Harbor $100,000, Port Aransas $150,000, Double Bayou $12,000, Trinity River $21,500, Freeport Harbor $75,000, channel from Brazos River and Matagorda Bay $44,500, Brazos Island Harbor $33,000, channel to Port Bolivar $20,000, Anahuac Channel $31,000, and channel from Pass Cevallo to Port Aransas $18,000.

Calif., San Diego—Air Compressor—Spec. 5417—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans relocating air compressor, at Naval Operating Base, (Destroyer Base), here.

Bids Desired

D. C., Wash.—Power Plant Equipment—Spec. 5334—July 27, by Bureau Yards & Docks, Navy Dept., Wash., D. C., power plant equipment for Naval Hospital, here. Noted July 7.

Md., Annapolis—Water Main—Spec. 5381—July 20, by Bureau Yards & Docks, Navy Dept., Wash., D. C., water main (Experimenting Station and Rifle Range), at Naval Academy, here.

Va., Alexandria—Repairing Pier—Spec. 5368—July 20, by Bureau Yards & Docks, Navy Dept., Wash., D. C., repairing and rebuilding pier at Naval Assembly Plant, here. Noted July 7.

Miss., Gulfport—Roads—Aug. 2, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., grading, draining and concrete paving roads at U. S. Veterans Hospital 74, here.

Oregon and Idaho—Railroad, etc.—Aug. 16, by Bureau Reclamation, Boise, Idaho, earthwork, structures, trackwork, and ballasting for Owyhee R.R., or 20 mi. grading, etc., Owyhee Highway, each extending from Adrian, Ore., on Homedale Branch Oregon Short Line Ry. to dam site on Owyhee River, point 11 mi. southwest of Adrian.

Wash., Pugent Sound—Fence—Spec. 5319—Aug. 3, by Bureau Yards & Docks, Navy Dept., Wash., D. C., renewing fence, at Navy Yard here.

Contracts Awarded

Conn., New London—Reroofing—Spec. 5366—Bureau Yards & Docks, Navy Dept., Wash., D. C., reroofing buildings at Naval Submarine Base, here, to Columbia Cornice Co., 268 Elm St., Cambridge, Mass., $3,426 (60 days). Noted June 9.

N. J., Bayonne — Post Office — Treas. Dept., at office Supervising Archt., Wash., D. C., constructing U. S. Post Office, here, to Devault & Deitrick, Massillon Rd., Canton, O., $191,900. Noted May 28.

Pa., Phila. — Storage Addition — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing storage addition to kitchen, to C. S. Bannett, 1633 South 59th St., $9,400; and refrigerating plant, to Curtis Grindrod Co., 10 South 18th St., $3,500. Noted June 9.

N. C., Oteen—Water System, etc.—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., outside water, sewer and steam distribution system, at U. S. Veterans Bureau, here, to B. L. Williams, 211 Bank St., Norfolk, Va., $46,861. Noted June 16.

Ga., Augusta — Quarters, etc. — U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., constructing Marine Officer's Quarters 31; Officer's Duplex Quarters 30 and 29, and Nurses Home 18, at U. S. Veteran's Hospital here, to J. A. Jones Constr. Co., 41' Commercial Bank Bldg., Charlotte, N. C., $114,861. Noted Apr. 14.

La., New Orleans — Inspection Boat — U. S. Engineers Office, Army Supply Base, Poland and Dauphine Sts., steel hull inspection boat, to Chas. Ward Eng. Wks., South Side, Charleston W. Va., $63,733. Noted May 19.

Mich., Mt. Clemens — Barracks, etc. — Constructing Quartermaster, Selfridge Field, quarters for air corps, here, to Martin Kraussman Co., 955 East Jefferson St., Detroit, $536,500. Noted June 2.

Ia., Clinton—Dredging—U. S. Engineer Office, Rock Island, Ill., dredging approximately 760,000 cu.yd. in Beaver Slough, a secondary channel of Mississippi River, here, to McWilliams Dredging Co., 332 South Michigan Bldg., Chicago, Ill., $65,660. Noted Mar. 24.

Mo., Kansas City—Roofing—Treas. Dept., at office Supervising Archt., Wash., D. C., roofing U. S. Post Office and Court House, here, to L. Van Dorp & Son, 509 Jackson St., Topeka, Kan., $10,812. Noted June 9.

Calif., Red Bluff — Post Office — Treas. Dept., at office Supervising Archt., Wash. D. C., constructing U. S. Post Office, here, to Welch & Fritz Constr. Co., Bancroft Bldg., San Diego, $75,478. Noted May 12.

Unclassified

Proposed Work

Playgrounds — Massachusetts — City of Boston, Dept. Pub. Wks., plans school playground Roxbury and Dunlow Sts. in Roxbury, $25,000; also one Ormond St., Outlook, Hillsboro and Byers Rds. in Dorchester, $25,000 or more. J. H. Sullivan, comr.

Playground—East Boston (br. Boston), **Mass.**—City of Boston, Dept. Pub. Wks., plans public playground in 4th Sect. $100,000. J. H. Sullivan, comr.

Grain Elevator — Framingham, Mass. — J. Cushing Co. plans rebuilding grain elevator, recently destroyed by fire. $25,000 or more. Engineer not selected.

Swimming Pool, etc.—Gloucester, Mass.—Owner, c/o H. L. Kennedy, archt., 80 Boylston St., Boston, made plans concrete swimming pool, water filters, pumps, concrete walks, stone wall, etc., here.

Swimming Pool, etc.—Lexington, Mass.—Town, W. H. Ballard, chn. com., made plans concrete and tile swimming pool, Center Playground. $25,000. Private plans.

Swimming Pool, etc.—Baton Rouge, La.—Park Comrs. making plans concrete swimming pool and concrete and stucco bath house. $50,000-$60,000. Amer. Park Builders, 201 East Ontario St., Chicago, Ill., engrs.

Golf Course—Glendale, Mich.—A. Day having plans prepared by Amer. Park Builders, 201 East Ontario St., Chicago, Ill., 18 hole golf course.

Golf Course and Club House—Glencoe, Ill.—Big Ten Golf Club, c/o Williams & Squires, 6 North Clark St., Chicago, having plans prepared by Amer. Park Builders, 201 East Ontario St., Chicago, 18 hole golf course and club house, on Dundee Rd. west of here. $350,000.

Fill—St. Louis, Mo.—City, c/o Bd. Pub. Serv., takes bids about Aug. 2, approximately 70,000 cu.yd. fill for approaches to Delmar Blvd. viaduct over Wabash Ry. tracks. $70,000. L. B. Bowen, 301 City Hall, engr.

Oil Tanks—Ingleside, Tex.—Humble Oil & Refining Co., making surveys, etc. 10 oil tanks, 55,000 bbl. capacity. $800,000. Private plans.

Grain Elevator—Quitaque, Tex.—G. Wise purchased site and making plans grain elevator, rein.-con. $75,000. Private plans.

Transmission Line — Oklahoma — Lincoln Power Co., Howe, plans 65 mi. 33,000 volt electric transmission line from Howe to McAlester. $75,000. D. Reid, Ft. Smith, Ark., engr.

Tunnel—North Vancouver, B. C.—Vancouver Harbor Comrs., 525 Seymour St., made plans and soon take bids 0.4 mi. rein.-con. cut and cover tunnel connecting Terminal Railway with Pacific Great Eastern under Lonsdale Ave. $200,000. H. W. Freth, 525 Seymour St., engr.

Bids Desired

Athletic Field — Newton (Ind. br. Boston), **Mass.**—City, E. O. Childs, mayor, taking bids concrete and timber athletic field and stadium. $50,000. Private plans. Noted Mar. 17.

Tunnel—Newton (Ind. br. Boston), **Mass.**—City Building Dept., City Hall, taking bids concrete tunnel connecting Newton High School buildings. $60,000. Private plans.

Boardwalk—Long Island City, N. Y.—July 18, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., constructing boardwalk, incl. ramps and approaches, along ocean front from Beach 21st to 109th Sts.

Coal Trestle, etc.—Sonyea, N. Y.—July 20, by Commissioner Mental Hygiene, Capitol, Albany, constructing coal trestle and railroad track at Craig Colony, here.

Plumbing and Heating—Canton, O.—July 22, by Bd. Comrs. Stark Co., plumbing, heating and water supply for tuberculosis hospital. A. L. Thayer, New Castle, Pa., engr. Noted June 23 under "Buildings—Commercial."

Swimming Pool—Lakewood (br. Cleveland)—July 18, by Bd. Educ., G. W. Grill, clk., swimming pool. $100,000. M. F. Hasbrouck Co., 101 Park Ave., New York City, engrs. Former bids rejected. Noted May 5.

Lighting System—St. Paul, Minn.—July 19, by A. E. Eggert, city purch. agt., ornamental lighting system on portions Montreal Ave. and Edgecombe Rd. G. M. Shepard, city engr.

Telephone Extensions—St. Louis, Mo.—See "Contracts Awarded."

Boilers, etc.—St. Louis, Mo.—July 26, by Bd. Pub. Serv., 208 City Hall, installing three 500 hp. boilers in Municipal Serv. Building approximately $54,000, brick setting, etc. for 3 boilers $19,000, 3 chain grate stokers, etc. $27,000; and constructing substation for electric street lighting system Dist. E, $20,000.

Police Signal and Telephone System—Montreal, Que. — July 16, by Executive Com., City Hall, police signal and telephone system in North Dist. $75,000.

Stadium—Hamilton, Ont.—July 18, by C. V. Langs, chn. Bd. Park Management, Main St. W., rein.-con. and steel athletic stadium. $60,000. E. H. Darling, Federal Bldg., engr.

Contracts Awarded

Pipe Line — Claremont, N. H. — See "Dams."

Baseball Stand—West Haven (br. New Haven), **Conn.**—Yale University Athletic Assn., steel and concrete baseball stand at Yale Baseball Field, to Dwight Building Co., 69 Church St., New Haven. Engrs. est. $185,000.

Tugs—Waterford, N. Y.—T. F. Farrell, comr. Canals & Waterways, State Pub. Wks. Bldg., Albany, 2 ice breaking steel tugs, at Barge Canal Terminal, here, to Buffalo Marine Corp., Fort Michigan St., Buffalo, $88,500.

Outdoor Gymnasium—Princeton, N. J.—Princeton University, constructing outdoor gymnasium to Matthews Constr. Co., Princeton. Archt. est. $25,000. Noted Jan. 27.

Tunnel—Kent, O.—W. Acluff, secy. Bd. Trustees Kent Normal School, constructing 300 ft. tunnel for water service, etc., to R. B. Child, Findlay, $16,993; revamping steam and water lines, to Thatcher Heating Co., 455 East Exch. St., Akron, $12,800; and electrical work, to G. Hirsch Co., 233 South High St., Columbus, $10,600. Grand total $40,393.

Coal Handling Equipment — Milwaukee, Wis.—Sewerage Comn., coal handling equipment for dryer house at disposal plant, on Jones Island, to Chain Belt Co., 736 Park St., $10,690. Noted June 16.

Grain Elevator — Hutchinson, Kan. — William Kelley Milling Co., 8 rein.-con. storage tanks, each 96 ft. high and 25 ft. diam., to Jones Hettlesater Constr. Co., 708 Mutual Bldg., Kansas City, Mo. Engrs. est. $40,000. Notew Apr. 21.

Telephone Extensions—St. Louis, Mo.—Southwestern Bell Telephone Co., 11th and Pine Sts., will construct telephone extensions in district bounded by Shaws Garden, Cooper, Northrup and Magnolia Aves., incl. 3 mi. underground cable in new subway from Laclede-Prospect Exchange to Bannon Ave., $49,150; also underground and aerial cables in district bounded by Vandeventer Ave. and River Des Peres from Chouteau Ave. to Missouri Pacific R.R. tracks, $37,800, by day labor. Private plans.

Pipe Line—Texas and Kansas—Empire Companies, Lubbock, Tex. and Bartlesville, Okla., 400 mi. 12 in. in pipe line from Panhandle, Tex. to Wichita, Kan. to Acme Fdry. & Machine Co., Coffeyville, Kan., approximately $3,000,000.

Gas System—Texas—Southwest Gas Co., Houston and Luling, 2, 6, and 10 in. pipe line and distributing systems in Cuero, Yoakum, Gonzales and Lockhart, to Sanderson & Porter, 52 William St., New York City, N. Y. approximately $350,000.

Lighting System—Ft. Worth, Tex.—City, O. E. Carr, mgr., ornamental lighting system on Houston and Main Sts., from Weatherford to East Frost Sts., to N. E. Bushby & Co., 111 South Haskell Ave., Dallas. $45,188. Engrs. est. $48,000. Noted June 30.

Materials

Bids Desired

Switches, etc.—Phila., Pa.—July 20, by C. E. Walsh, purch. agt., Pennsylvania R.R., 15 North 32nd St., West Phila., switches, switch points, frogs and crossings, etc. Contr. 88-1927; and fabricated steel for bridges. Contr. 89-1927.

Pipe—Montreal, Que.—July 29, by Chairman Executive Com., City Hall, 30 in. c.i. pipe. $70,000.

See proposal advertising on page 151

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Sewage Disposal Works—Parsons, Kan.

Bids were opened by City, Mar. 29, (lowest three) for sewage disposal works, from (A) Carrothers & Nelson, 600 Walsex Bldg., Kansas City, Mo., (awarded contract); (B) Reed & Wheelock, Clay Center; (C) F. A. Every & Sons, Parsons. The unit bids are as follows:

	A	B	C
9,500 cu.yd. earth excavation	$0.75	$0.75	$0.90
100 cu.yd. loose rock excavation	1.50	3.00	3.00
Solid rock excavation	6.00	4.50	7.00
Removing septic tank roof (lump sum)	1,700.00	2,000.00	275.00
Preliminary settling tank, using Dorr clarifier mechanism (lump sum)	6,600.00	6,500.00	6,579.19
Using Hardinge clarifier mechanism (lump sum)	6,300.00	6,500.00	6,679.19
Final settling tank:—			
Using Dorr clar. mechan. (lump sum)	8,800.00	8,000.00	9,794.47
Using Hardinge clar. mechan. (lump sum)	8,480.00	8,000.00	9,819.47
Aeration tanks (lump sum)	17,200.00	16,000.00	15,518.00
Blower station (lump sum)	9,550.00	11,500.00	10,385.93
Pumping station (lump sum)	4,750.00	7,500.00	5,790.00
Upper control manhole (lump sum)	860.00	750.00	1,136.83
Lower control manhole (lump sum)	460.00	700.00	1,137.61
Weir gauging station (lump sum)	1,370.00	1,500.00	1,659.40
Sludge filters (lump sum)	6,050.00	6,375.00	7,840.04
620 lin.ft. 4 in. cast iron pipe laid	1.50	1.75	1.80
660 lin.ft. 6 in. cast iron pipe laid	1.70	1.75	2.45
700 lin.ft. 8 in. cast iron pipe laid	2.40	2.00	3.95
10 in. cast iron pipe laid	3.00	3.25	....
12 in. cast iron pipe laid	3.50	3.75	....
70 lin.ft. 16 in. cast iron pipe laid	3.60	4.25	7.90
100 lin.ft. 4 in. vit. clay sewer pipe laid.	.50	.75	....
150 lin.ft. 6 in. vit. clay sewer pipe laid	.70	1.00	.65
350 lin.ft. 8 in. vit. clay sewer pipe laid	.80	1.50	.75
12 in. vit. clay sewer pipe laid	1.25	2.00	1.40
15 in. vit. clay sewer pipe laid	1.50	2.50	....
250 lin.ft. 18 in. vit. clay sewer pipe laid	2.00	3.50	....
21 in. vit. clay sewer pipe laid	3.50	5.00	5.75
Sludge digester piping (lump sum)	$1,770.00	2,500.00	2,289.36
60 cu.yd. misc. reinf. concrete	24.00	28.00	....
10 cu.yd. conc. backfill	12.00	15.00	15.00
6 surface drainage inlets	15.00	15.00	10.00
5 standard manholes	50.00	60.00	100.00
10 cu.yd. concrete in bulkhead	25.00	20.00	20.00
Time of completion, months	10	8	9
Totals based on Hardinge Clarifiers	$72,834	$78,732	$81,636
Totals based on Dorr Clarifiers	$73,454	$78,732	$81,511

Engineering News-Record Issue of July 14, 1927

Bridges—Washington

Bids were opened by State Highway Department, Olympia, Apr. 26, (lowest three) for bridges on State Road No. 1, Pierce Co., Redondo to Tacoma, from (A) Paul S. Savage, 729 Tacoma Bldg., Tacoma, (awarded contract); (B) Pacific Construction & Timber Co., Seattle; (C) J. F. Bachelor, Tacoma. The unit bids are as follows:

	A	B	C
895 cu.yd. structure excavation	$2.55	$1.30	$2.60
30 cu.yd. gravel backfill in place	3.25	2.75	3.00
305 cu.yd. concrete class "A" in place	17.00	18.00	21.75
305 cu.yd. concrete class "B" in place	15.50	18.00	19.80
70 cu.yd. concrete class "E" in place	13.50	17.50	13.80
63,700 lb. steel reinf. bars in place	.042	.07	.035
72 M. ft. b.m. lumber and plank, treated in place	81.00	76.00	77.50
350 M. ft. b.m. lumber and plank, untreated in place	45.00	47.00	66.00
5,200 lin.ft. furnishing piling at site, treated	.54	.54	.55
2,860 lin.ft. furnishing piling at site, untreated	.155	.24	.27
115 driving piles treated	6.25	9.00	10.00
90 driving piles untreated	9.00	8.00	10.00
135 lb. copper seal, in place	.50	.60	.55
Totals	$26,750	$28,877	$29,853

Engineering News-Record Issue of July 14, 1927

Sewers—Houston, Tex.

Bids were opened by City, Mar. 15, for storm sewers in Wayside Drive from Navigation to Buffalo River, 67th St., from Navigation to Avenue N and Avenue N from 67th Street to Wayside Drive, from (A) C. K. Horton, 2202 Clay St., (awarded contract); (B) McClendon & Green, First National Bank Bldg.; (C) Scott Shambaugh. The unit bids are as follows:

	A	B	C
10 cu.yd. extra excavation	$1.50	$2.00	$1.00
10 ton mi. hauling	1.00	1.80	1.00
10 man hrs. extra work—labor	.60	.60	.50
10 team hrs. extra work—team	.80	.90	.80
2 M.ft.b.m. timber in foundations	60.00	75.00	40.00
15 M.ft.b.m. timber ordered left in trenches	40.00	35.00	40.00
15 cu.yd. extra class 2 concrete	20.00	20.00	18.00
1 cu.yd. extra brick masonry	30.00	30.00	25.00
1,000 lb. extra reinforcing steel	.10	.08	.05
5 cu.yd. road gravel	4.00	5.00	3.00
5 cu.yd. road shell	4.00	3.50	1.80
14 std. manhole type "A"	70.00	70.00	60.00
35 lin.ft. extra depth man hole type "A"	10.00	10.00	5.00
52 supplying and setting inlet type "B"	35.00	35.00	33.00
2 supplying and setting dbl. inlet "B"	70.00	70.00	65.00
8 ft. extra depth dbl. inlet "B"	12.00	10.00	8.00
200 lin.ft. mon. concrete 36-in.— 0 to 6 ft.	5.25	5.50	5.60
10 lin.ft. mon. concrete 36-in.— 6 to 8 ft.	5.75	6.00	6.50
710 lin.ft. mon. concrete 36-in.— 8 to 10 ft.	5.80	6.00	6.50
1,780 lin.ft. mon. concrete 36-in.—10 to 12 ft.	6.10	6.25	7.50
10 lin.ft. mon. concrete 36-in.—12 to 14 ft.	7.00	8.00	8.50
145 lin.ft. mon. concrete 42-in.— 0 to 6 ft.	6.50	6.50	6.75
80 lin.ft. mon. concrete 42-in.— 6 to 8 ft.	6.75	7.50	7.25
45 lin.ft. mon. concrete 42-in. 8 to 10 ft.	7.10	8.00	7.50
570 lin.ft. mon. concrete 42-in.—10 to 12 ft.	7.40	8.00	7.50
120 lin.ft. mon concrete 42-in.—12 to 14 ft	7.60	8.50	8.50
45 lin.ft. mon. concrete 42-in.—14 to 16 ft.	8.00	9.00	10.00
1,160 lin.ft. concrete pipe—15-in.—0 to 6 ft.	2.00	2.00	1.90
1,160 lin.ft. concrete pipe—15-in.—6 to 8 ft.	2.10	2.00	2.15
60 lin.ft. concrete pipe—18-in.—0 to 6 ft.	3.00	2.75	2.55
60 lin.ft. concrete pipe—18-in.—6 to 8 ft.	3.10	3.00	2.75
10 lin.ft. concrete pipe—18-in.—8 to 10 ft.	4.00	3.50	3.00
20 lin.ft. concrete pipe 24-in.—0 to 6 ft	3.50	4.00	3.50
260 lin.ft. concrete pipe—24-in.—6 to 8 ft.	3.75	4.00	3.50
105 lin.ft. concrete pipe—24-in.—8 to 10 ft.	4.10	4.50	4.00
Totals	$34,698	$35,675	$37,329

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Road—Texas

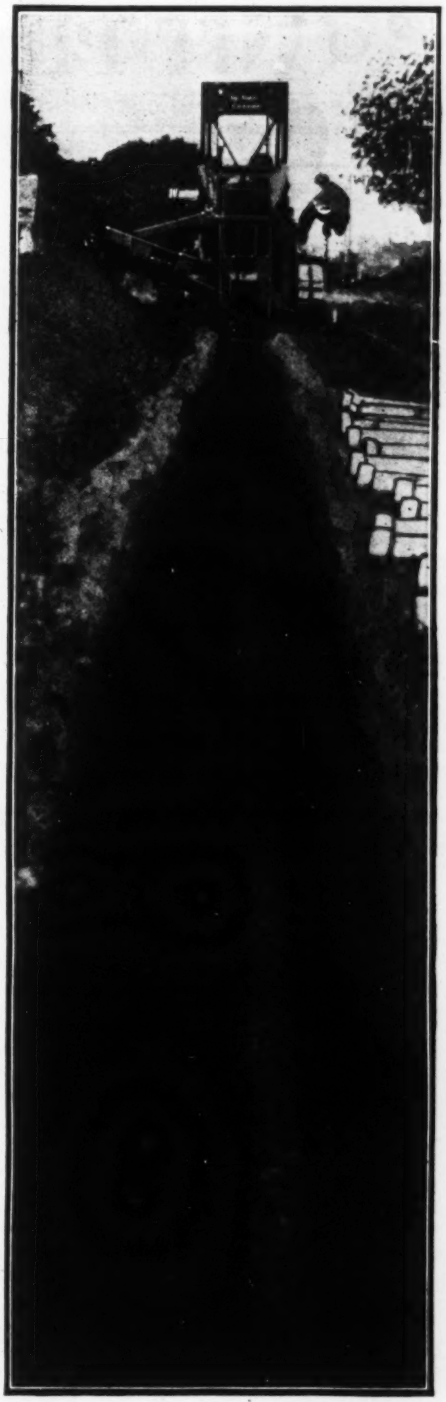
Bids were opened by Commissioners of Harris County, Houston, Mar. 14, for constructing Houston Avenue Extension Road, from (A) Philpot Construction Co., Galveston, (awarded contract); (B) Charles K. Horton, Houston; (C) Scott Shambaugh, Houston. The unit bids are as follows:

	A	B	C
23,622 cu.yd. earth roadway excavation	$0.25	$0.25	$0.30
150 cu.yd. channel excavation	.70	.35	.30
126 cu.yd. structural excavation	1.00	1.00	1.00
4,809 cu.yd. earth borrow	.30	.25	.30
7,584 sta.yds. earth overhaul	.03	.03	.04
200 hours extra rolling base	2.50	3.00	3.00
100 M. gals. sprinkling base	2.00	2.00	3.00
50 M. gals. water hauled additional mile	1.00	1.00	1.50
35,199 sq.yd. reconstructed base course	.04	.03	.05
1,759.6 cu.yd. base course material	1.85	2.00	2.00
8,249.4 cu.yd. base course material hauled additional ½ mile	.06	.06	.07
35,199 sq.yd. concrete pavement— modified Bates type	2.05	2.15	2.12
136,940 lb. reinforcing for pavement	.05	.05	.055
119.55 cu.yd. class "A" concrete	22.00	20.00	22.00
1.94 cu.yd. class "C" concrete	25.00	22.00	25.00
11,217 lb. reinforcing steel	.04	.05	.05
24 lin.ft. 18 in. concrete pipe	2.00	2.75	2.00
370 tons plain riprap	5.00	6.00	4.00
4 supports for pavement at bridge ends	125.00	100.00	150.00
500 team hours	.95	.80	.80
500 labor hours	.45	.40	.50
2,727 cu.yd. shell for shoulders	1.90	1.90	2.00
12,787 cu.yd. shell hauled additional ½ mi	.06	.06	.05
Totals	$104,524	$108,188	$110,100

Engineering News-Record Issue of July 14, 1927

UNIT PRICES *Continued on page 26a*

ONLY THE BARBER-GREENE HAS THE VERTICAL DIGGING BOOM AND THE OVERLOAD RELEASE



Tearing Through—To New Ditching Records

TURN this Barber-Greene loose wherever there is digging to do—and watch it go. The vertical boom dives straight into the ground, full depth. Then it starts tearing up the earth for yard after yard of clean-cut trench.

If an obstruction bars the way, this digging demon doesn't plunge into it blindly and damage the machinery. The overload release takes care of that. The vertical boom can either jump over or keep picking until the obstruction is removed.

This nimbleness, plus the mile-a-day speed on shallow pipe line trench and the versatility that turns service laterals into a source of profit are reasons enough why Barber-Greene Ditchers topped all ditcher sales records last year.

"Ditching Snapshots and Records" is full of interesting pictures that show Barber-Greenes digging everything that's "diggable." And pages are devoted to cold cost figures that show how Barber-Greenes cut the cost of digging to new low records. Send for your copy today.

BARBER-GREENE COMPANY, 422 W. PARK AVE., AURORA, ILLINOIS

Barber-Greene

Barber-Greene Ditcher

Representatives in 50 Cities

DISC FEED LOADERS VERTICAL BOOM DITCHERS
STANDARDIZED PORTABLE AND PERMANENT BELT CONVEYORS
SNOW LOADERS CAR UNLOADERS COAL LOADERS

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Street Improvements—San Luis Obispo, Calif.

Bids were opened by Supervisors of San Luis Obispo County for improving streets in Morro Beach section, from (A) Warren Construction Co., 28th and Poplar Sts., Oakland, (awarded contract); (B) Braun, Bryant & Austin, Los Angeles; (C) Irving L. Ryder, San Jose. The unit bids are as follows:

	A	B	C
23,200 cu.yd. grading	$1.10	$1.30	$1.45
815,000 sq.ft. 2½-in. asph. base with 1½-in. Warrenite-bit. surface	.23	.243	.25
12,375 ft. curb and gutter	1.40	1.50	1.30
55,360 ft. conc. dished gutter	.90	.93	1.05
105 catchbasins	65.00	60.00	55.00
1,717 ft. 8-in. corru. culvert	1.70	1.60	2.00
54 ft. 12-in. corru. culvert	2.50	2.50	2.50
8 ft. 18-in. corru. culvert	3.50	3.00	2.50
8 ft. 24-in. corru. culvert	4.50	4.00	3.50
930 cu.ft. conc. (culvert)	1.10	1.00	1.00
2,500 lb. reinf. steel	.10	.10	.09
1 conc. bridge (lump sum)	9,700.00	12,000.00	11,900.00
400 cu.ft. conc. bridge foundation	.70	.80	.90
6,420 ft. 12-in. vit. sewer pipe	2.00	1.85	2.20
100 T's, 12-in. pipe	4.00	4.00	4.75
1,580 ft. 10-in. vit. sewer	1.50	1.50	1.80
40 T's on 10-in. pipe	3.20	3.50	4.25
100 ft. 10-in. well casing	3.00	3.00	3.35
4,170 ft. 8-in. vit. sewer	1.80	1.65	1.70
100 T's on 8-in. pipe	3.20	3.00	3.75
16,300 ft. 6-in. vit. sewer	1.60	1.55	1.50
400 T's on 6-in. pipe	3.00	2.50	3.25
1,000 ft. 4-in. vit. sewer	1.00	1.00	.85
60 manholes	125.00	140.00	110.00
40 lampholes	18.00	20.00	25.00
18,600 ft. 6-in. riveted steel pipe	2.90	3.10	2.60
7,600 ft. 4-in. riveted steel pipe	2.50	2.35	2.10
14,200 ft. 2-in. wrought steel	1.00	1.10	.90
7 gate valves, 6-in.	25.00	30.00	40.00
19 gate valves, 4-in.	20.00	23.00	30.00
46 gate valves, 2-in.	12.00	12.50	20.00
33 fire hydrants	70.00	80.00	85.00
65 No. 107 King Electroliers	132.00	140.00	165.00
66 No. 44 King Electroliers	128.00	130.00	140.00
23,000 ft. ¾-in. conduit	.38	.40	.40
570 ft. 1½-in. conduit	.40	.45	.50
24,400 ft. electric conductor	.27	.30	.35
Totals	$488,363	$508,981	$512,394

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Sewers, Etc.—Sedalia, Mo.

Bids were opened by City, May 1, for constructing sanitary sewers and disposal plant, from (A) Hamilton Contracting Co., and A. C. Comstock, Bartlesville, Okla., (awarded contract); (B) Chanute Construction Co., Kansas City. The unit bids are as follows:

	A	B
7,364 ft. furnishing and laying 8 in. standard V.C. pipes	$0.60	$0.45
6,113 ft. furnishing and laying 10 in. standard V.C. pipes	.65	.60
2,641 ft. furnishing and laying 12 in. standard V.C. pipes	1.85	.85
4,675 ft. furnishing and laying 18 double stgth. V. C. pipes	2.00	1.90
1,323 ft. furnishing and laying 24 double stght. V. C. pipes	4.00	3.00
5,502 ft. furnishing and laying 27 double stgth. V. C. pipes	5.00	4.00
1,304 ft. excavating and refilling 0 to 4 ft	.40	....
2,155 ft. excavating and refilling 4 to 6 ft	.50	.40
6,344 ft. excavating and refilling 6 to 8 ft	.60	.50
6,463 ft. excavating and refilling 8 to 10 ft	.75	.55
4,669 ft. excavating and refilling 10 to 12 ft	1.00	.70
2,737 ft. excavating and refilling 12 to 14 ft	1.20	.80
3,464 ft. excavating and refilling 14 to 16 ft	1.60	1.10
450 ft. excavating and refilling 16 to 20 ft	1.65	2.40
103 manholes	90.00	80.00
20 cu.yd. class B concrete	25.00	20.00
2,000 cu.yd. rock excavation	5.00	5.00
309 lin.ft. cutting and replacing pavement	2.00	2.75
6,500 cu.yd. earth excavation at disposal plant	1.00	1.00
75 cu.yd. rock excavation at disposal plant	5.00	3.50
1,020 cu.yd. class A concrete at disposal plnat	20.00	24.50
90,000 lb. reinforcing steel at disposal plant	.05	.0575
Totals	$193,221	$215,000

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Constr. News page 26a

Conduit—Syracuse, N. Y.

Bids were opened by Board of Contract and Supply, May 2, for Contract "B," Section 2, of Third Conduit, hauling and distributing c. i. pipe, valves and specials, trenching and backfilling, etc., from (A) Provo Bros.; 604 North Salina St., (awarded contract using lead); (B) Robeck-Humphries Co.; (C) Mondo Construction Co. The unit bids are as follows:

	A	B	C
Chopping and clearing (lump sum)	$1,000.00	$400.00	$500.00
800 lin.ft. excav. and backfill under 6 ft	1.20	1.80	2.10
19,700 lin.ft. 6-8 ft	1.20	1.90	2.50
5,400 lin.ft. 8-10 ft	1.30	2.30	3.60
600 lin.ft. 10-12 ft	1.60	4.08	5.00
600 lin.ft. 12-14 ft	2.10	4.76	6.00
500 lin.ft. 14-16 ft	2.70	5.44	7.00
300 lin.ft. 16-18 ft	3.30	6.12	9.00
300 lin.ft. 18-20 ft	3.90	10.00	10.00
300 lin.ft. over 20 ft	4.70	12.00	11.00
500 cu.yd. ordinary excav	1.50	1.00	2.00
2,000 cu.yd. embankment	.70	1.00	1.25
500 cu.yd. gravel lining	2.00	3.00	2.50
100 sq.yd. grouted stone paving	2.50	3.00	3.00
28,200 lin.ft. laying 36-in. pipe (with lead)	.75	2.25	1.50
50 lin.ft. 30-in. pipe (with lead)	.75	6.00	1.50
650 lin.ft. 12-in. pipe (with lead)	.75	1.00	1.00
28,200 lin.ft. testing pipes (lump sum)	1,410.00	2,000.00	1,000.00
10 lin.ft. laying 6-in. tile drain	1.00	.80	1.00
Gate house (lump sum)	2,500.00	2,000.00	2,000.00
4 chambers	650.00	450.00	500.00
6 blow-offs	325.00	125.00	300.00
7 air valves	200.00	90.00	150.00
7 manholes	300.00	125.00	250.00
7,420 tons unloading C. I. pipe, etc.	4.00	3.00	3.30
Plate girder bridge (lump sum)	2,700.00	2,800.00	2,700.00
75 cu.yd. concrete culverts	20.00	23.00	18.00
20 cu.yd. extra concrete, first class	20.00	23.00	18.00
20 cu.yd. extra concrete, second class	18.00	21.00	14.00
500 hours common labor	.60	.70	.70
100 hours skilled labor	1.00	1.50	1.25
100 hours foreman labor	1.25	1.50	1.25
300 ton hours motor trucks	1.00	2.00	2.00
16 stone monuments, set	10.00	5.00	10.00
1,000 lb. reinforcing steel	.10	.10	.10
Removing bulkhead (lump sum)	100.00	100.00	100.00
Laying 36-in. pipe with leadite	.45	1.75	.90
Laying 30-in. pipe with leadite	.75	6.00	.90
Laying 12-in. pipe with leadite	.75	.89	.75
Totals using lead	$112,630	$174,108	$178,691
Totals using leadite	$104,170	$159,937	$161,579

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Breakwater—Muskegon, Mich.

Bids were opened by U. S. Engr. Office, Federal Bldg., Milwaukee, May 31, for constructing south breakwater at Muskegon Harbor, from (A) Love Construction Co., Union Bank Bldg., (awarded contract); (B) Great Lakes Dredge & Dock Co., Milwaukee; (C) E. E. Gillen, Milwaukee; (D) McMullen & Pitz Construction Co., Manitowoc. The unit bids are as follows:

	A	B	C	D
Driving and cutting off 1323 foundation piles for caissons, per pile	$14.00	$24.00	$32.50	$35.00
9,700 tons Class I stone, per ton of 2,000 lbs. in place	3.00	3.60	4.50	4.90
25,600 tons Class II stone, per ton of 2,000 lbs. in place	4.00	4.90	4.20	5.15
7,100 tons Class III stone, per ton of 2,000 lbs. in place	4.50	4.90	4.65	5.15
3,775 cu.yd. concrete superstructure and filling for breakwater	17.00	16.90	31.00	30.00
Leveling foundations and sinking 28 caissons, per caisson	750.00	600.00	1,300.00	1,200.00
Totals	$267,147	$307,499	$380,607	$409,090

Engineering News-Record Issue of July 14, 1927

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Gas pipe line, Texas and Louisiana, Dixie Pipe Line Co., plans, $10,000,000.

Sewers, Chicago, Ill., Sanitary Dist., plans, $6,000,000.

Irrigation, Orange Cove, Calif., Foothill Irrigation Dist., plans election, $2,500,000.

Bridge, Paducah, Ky., Paducah Board Trade, takes bids about Aug. 15, $2,100,000.

Hospital, Wauwatosa, Wis., Milwaukee Co., having plans prepared, $2,000,000.

Road improvement, Nashville, Tenn., Davidson Co. voted bonds $1,500,000. Total $3,000,000.

Temple, Kansas City, Mo., Scottish Rite Temple, having preliminary sketches made, $1,500,000.

Club, Chicago, Ill., Hellenic-American Athletic Club, having plans prepared, $1,250,000.

University, Los Angeles, Calif., University of California, having plans prepared, $1,200,000.

Bridge, Amarillo, Tex., Chicago, Rock Island & Pacific Ry. Co., made plans, $1,000,000.

Apartment, Portland, Ore., Rose Holding Co., having plans prepared, $1,000,000.

Amusement center, Newark, N. J., Arena & Amusement Co., Inc., having plans prepared $1,000,000.

Bids Desired

Civil courts, St. Louis, Mo., Aug. 2, by Bd. Pub. Serv., $2,700,000.

Contracts Awarded

Plant, Hopewell, Va., Atmospheric Nitrogen Co., to Stone & Webster, Boston, Mass., $25,000,000.

State Societies building, Long Beach, Calif., All States Building Corp., to Wilson & Bever, Anaheim, $1,500,000.

News of the Week

Waterworks

Proposed Work

W. Va., Parkersburg — Voted $400,000 bonds, waterworks improvements. J. V. Dunbar, Parkersburg, engr.

S. C., Holly Hill—Voted $47,000 bonds, waterworks improvements.

O., Hamilton—Soon takes bids buildings for water-works plant. $83,000.

Mo., Caruthersville—Making preliminary plans extending water distributing system; also extending and repairing sewers in various streets, $35,000.

Okla., Arnett — Voted $15,000 bonds, waterworks, and $15,000 bonds, electric lighting system.

Calif., Beverly Hills—Soon takes bids part 1 and 2 story, 200 x 280 ft., rein.-con. aeration plant, for water system. $200,000. Salisbury, Bradshaw & Taylor, Petroleum Securities Bldg., Los Angeles, engrs. Noted May 5.

Calif., Martinez—Clerk Contra Costa Co., takes bids in August, boring well, installing motor, pump, valves, etc. for Water Works Dist. 1.

Bids Desired

N. Y., Brooklyn — July 26, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenue H, Maspeth, Varick, and 19th Aves., here.

N. Y., Brooklyn — July 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenues H, O, T, U and Z, Albany, Bath, Bedford and Benson Aves., Batchelder, Bay 34th, Bay 49th, Bay 50th Sts., etc., here.

N. Y., Long Island City—July 26, by N. J. Hayes, comr. Water Supply, Gas & Electricity Municipal Bldg., New York City, mains in Queens and Winchester Blvds., Roosevelt, and 50th Aves., 22nd and 25th Sts., etc., here.

N. Y., Poughkeepsie — July 28, by Bd. Pub. Wks., Eastman Park Mansion, rein.-con. structure and placing pipes, valves, strainers, etc., for additional scrubbers, Poughkeepsie Water Works. Hazen & Whipple, 25 East 43rd St., New York City, consult. engrs.; adv. E. N.-R. July 21.

N. Y., Syracuse—Aug. 1, by Bd. Contr. & Supply, City Hall, A. Smingler, Jr., secy., reservoir for water supply; adv. E. N.-R. July 21. Noted Nov. 18.

Pa., Martinsburg—Aug. 1, by J. H. Nicodemus, secy Boro Council, 2,500 lin.ft. 8 in. mains and replacing gate house at dam, F. M. Hunter, Goldschmid Bldg., Altoona, engr.

La., Columbia—See "Contracts Awarded."

La., Villa Platte—July 25, by City, 200,000 gal. rein.-con. covered reservoir, 5,570 lin.ft. 4- to 8-in. H & S mains, hydrants, etc. H. A. Mentz, Hammond, engr.

O., Columbus—July 30, by O. Moore, clk. Franklin Co., 5,790 ft. 6- to 12-in. c.i. mains in Bexley Heights Truro Twp. $15,000. E. L. Bradbury, Court House Annex, engr.

Mich., Detroit—July 28, by Dept. Pub. Wks., City Hall, 4 vertical electric motor driven pumping units, 500 cu.ft. capacity per sec. against 27 ft. head, with auxiliary equipment. P. A. Fellows, city engr.

Minn., Stillwater — July 29, by L. C. Clarke, engr. & supt. Bd. Water Comn., 204 North 3rd St., 1,000 various sized water meters.

Okla., Weleetka—Aug. 3, by W. W. Griffin, city clk., raising reservoir dam, new levee and spillway. $18,500. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted May 12.

Calif., Santa Maria—A. H. Drexler, city clk., taking bids 28,300 lin.ft. rein.-con. irrigation, centrifugal rein.-con., electric welded steel 10-gauge steel, or Natl. lapwelded or equal pipe line. H. Neel, Jr., city engr.

Ont., Willowdale—July 25, by H. D. Goode, clk North York Twp., one 600 Imperial g.p.m. centrifugal pump, 330 ft. head, direct connected to electric motor. $5,000. G. Baker, Willowdale, engr.

Contracts Awarded

N. Y., Mohawk—Municipal Comn., ½ m.g. rein.-con. distributing reservoir, etc., to H. W. Bacheler, Herkimer, $19,922. Noted June 2.

La., Columbia—Louisiana Power & Light Co., Pine Bluff, Ark., will build waterworks and distribution system, here, by day labor. $35,000. Private plans.

> *THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.*
>
> *Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.*

Ia., Massena—H. D. Hancock, city clk., 15,350 ft. 2- to 6 in. c.i. pipe, 22 hydrants, twelve 2- to 6-in., valves and boxes 5,500 lb. specials, 30 000 gal. tank on 55 ft. or 100 ft. tower, 10 x 10 ft. wood pump house, on 12 ft. concrete pit, pumps, etc., to C. W. Roland Co., 1347 8th St., Des Moines.

Neb., Imperial—W. C. Hill, village clk., 15,000 lb. 4 hd. bare and 500 lb. 4 sd. bare copper wire, 2,200 lb. 6, and 3,850 lb. 4 TBWP copper wire, to Midwest General Electric Co., 814 South 14th St., Omaha, $3,511; and oil engine, to Worthington Pump & Machine Corp., 825 Scarrett Bldg., Kansas City, Mo., $18,150. Noted June 2.

Tex., Waco—City will extend 6- to 8-in. c.i. mains in South Waco and in 15th St., by day labor. $15,000. Address W. H. Deaton, city supt.

Calif., San Diego—Water system in Linda Vista Dist., Morena Blvd., etc., to Claude Fisher Co., 756 South B'way, Los Angeles, $94,816. Noted May 19.

Sewers

Proposed Work

Miss., Iuka—Making preliminary surveys complete sanitary sewerage system, disposal plant, etc. Palglaze & Basenberg, Birmingham, engrs.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids this fall, 7,410 lin.ft. 8- to 42-in. vitr. clay sewer, etc. in Evans St. et al. $69,700. J. E. Root, Municipal Bldg., engr.

O., Canton—Bd. Control plans trunk sewer East of Grace Ave. N.E. $50,000-$100,000. W. E. Sarver, city engr.

Ill., Blue Island—Made plans 3 sewerage systems. $175,000. A. L. Fox, 160 North La Salle St., Chicago, engr.

Ill., Chicago—Sanitary Dist. of Chicago, 910 South Michigan Ave., plans 6 mi. 16 in. concrete relief sewer from 39th to 87th Sts. $6,000,000. E. J. Kelly, 910 South Michigan Ave., engr.

Ill., West Frankfort—Making preliminary plans sewage disposal plant and sanitary sewers in various streets. $200,000. C. A. Cox, City Hall, engr.

Ia., Des Moines—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Ia., Grinnell—City takes bids after July 22, complete sewage disposal plant. $65,000. R. B. Slippy, 406 Lafayette Bldg., Waterloo, engr.

Ia., Lowden — Postponed indefinitely 3 mi. 8 and 12 in. sewers and paving 12 blocks various streets. $45,000. H. R. Green Eng. Co., Bever Bldg., Cedar Rapids, engrs. Noted Feb. 3.

Mo., Caruthersville—See "Water Works."

Okla., Claremore — Made preliminary plans sewage disposal plant and new outfall sewers in various streets. $30,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Ore., Salem—Made plans improving and extending sewerage system. $500,000. H. M. Rogers, Court House, engr.

Bids Desired

Mass., Boston—July 25, by Dept. Pub. Wks., sewerage system in River, Arlington and Walter Sts., in Dorchester and Hyde Park. $35,000. J. H. Sullivan, comr.

See proposal advertising on page 131

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Only 51 days between the decision to build an emergency water works plant - - *and the finished job!*

- - the speed with which Leadite jointing can be accomplished contributed to this remarkable feat.

THE line illustrated here is 26,000 ft. of 12" pipe with LEADITE joints.

Owing to the emergency which arose in the city for which the installation was made no trenching could be attempted.

The line lies throughout its entire length on the surface of the ground without any bracing except at the bends.

After completion the line was tested to 260 lbs. pump pressure.

Specify and use **LEADITE** —it saves at least 75%

It is now under constant pump working pressure of 230 lbs. For over 30 years now, LEADITE has demonstrated by test and experience that it is absolutely permanent and secure.

Leadite is self-caulking and is so simple to use that the method of using it can be taught to even the most inexperienced help in a very short time.

Added to its speed and ease of use—Leadite saves at least 75% on account of saving in material and labor.

Be sure it is **LEADITE** and accept no imitations ~ ~ ~

Part of the 26,000 ft. installation, crossing an open field. Chas. E. Waddell & Co., Engineers.

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Sewers (Continued)

Mass., Boston—July 28, by Dept. Pub. Wks., sewerage system in Hazelton St., Dorchester and Piedmont St., City Proper; July 29, Bowditch St., Roxbury. J. H. Sullivan, comn.

N. Y., Long Island City—July 27, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., regulator chamber, installing automatic regulator, also repairing and cleaning overflow chamber at Rust St. and Clark Ave., etc.

N. Y., St. George — See "Streets and Roads."

N. Y., Rye—Aug. 8, by Westchester Co. Sanitary Sewer Comn., 192 Martine Ave., White Plains, constructing Blind Brook Sewer Projects, Sects. A, B, C, D, and E. E. S. Martin, secy.; adv. E. N.-R. July 21.

N. J., Bridgeton—Aug. 2, by C. P. Corey, city clk., City Hall, 2 sewage pumping Stations, Contr. 1; Cohansey River Crossing and force main to treatment plant, Contr. 2; and sewage treatment plant, Contr. 3. Remington & Vosbury, 509 Cooper St., Camden, consult. engrs.; adv. E. N.-R. July 21.

N. J., Newark—July 28, at City Hall, Sect. 3, Supplementary Joint Trunk Sewer in East Orange, Hillside, Irvington, Maplewood, Millburn, Newark, Roselle Park, South Orange, Summit, Union and West Orange. A. Potter, 50 Church St., New York City, engr.; adv. E. N.-R. July 21. Noted June 30.

N. J., Plainfield—Aug. 1, Common Council, City Hall, approximately 8,500 lin.ft. 8 and 10 in. vitr. sewers, etc., in various streets. A. W. Vars, city engr.; adv. E. N.-R. July 21.

N. J., Teaneck (mail West Englewood) —July 26, by Twp. Com., Municipal Bldg., storm drainage system, in Downing St., River and Churchill Rds. A. Noack, 235 Main St., Hackensack, engr.

N. J., Teaneck (mail West Englewood)—July 26, by Twp. Com., Municipal Bldg., Teaneck Rd., 10,000 ft. 8- to 12-in. sewers in various streets, Contr. Y. Sanborn & Bogert, 30 Church St., New York City, consult. engrs.

Pa., Allentown—Aug. 16, at office M. W. Gross, mayor, Central Fire and Police Station, constructing Kline's Island Sewage Treatment Plant, Contr. 1. Metcalf & Eddy, Statler Bldg., Boston, Mass., engrs.; adv. E. N.-R. July 21.

Pa., Lansdale—July 28, by Boro Council, constructing sewage collecting well, pump house, electrically driven pumping equipment, and cast iron force mains; also 5,750 ft. 8- to 12-in. vitr. sewer pipe, etc. Albright & Mebus, 1502 Locust St., Phila., or 112 South Easton Rd., Glenside, engrs.

W. Va., East Rainelle — July 26, by Town, W. W. Martin, mayor, sewerage system, incl. 26 manholes, 400 ft. 6 in. farm tile, 15,371 ft. 6- to 15-in. terra cotta pipe, etc. Plumley-Walters Eng. Co., Bank Commerce Bldg., Charleston, engrs.

Ala., Birmingham — July 30, by City Comn., approximately 2½ mi. brick, c.i. and terra cotta sewers to drain area bounded by east line of Southern Ry., south to Sect. 13, Twp. 17, S., Range 3, W., Mitchells Addition to North Birmingham. $167,000. A. J. Hawkins, city engr.

O., Amherst—July 26, by F. L. Moebius, village clk., sewage disposal plant; adv. E. N.-R. July 21.

O., Akron—July 28, W. F. Peters, dir. Pub. Serv., 18,960 ft. 8- to 24-in. vitr. clay and 7,690 ft. 30- to 75-in. brick or segmental block sewer in Arlington et al. (Weston Rd. Dist.) $273,500. J. F. Root, Municipal Bldg., engr. Noted Mar. 31.

O., Columbus—July 30, by O. Moore, clk. Franklin Co., 17,590 ft. 6- to 20-in. vitr. clay sewer, etc., in Minerva Park, and disposal plant, 7,400 lb. steel, in Mifflin Twp. $90,278. E. L. Bradbury, Court House Annex, engr.

Mich., Detroit—July 27, by Dept. Pub. Wks., backwater gates for East Jefferson Ave. Sewer Dist. P. A. Fellows, City Hall, engr.

Mich., Detroit—July 27, by Comr. Pub. Wks., monolithic concrete or brick sewers, etc., in 2,613 ft., Griggs-Curtis Arm, Sect. 1 north of 6 mi. Rd. Sewer, 2,164 ft. Seven Mile Rd. Arm East, Sect. 1 Hubbell Ave. Sewer, 1,625 ft. Avon Ave. Arm North Grand River Ave. Sewer, 1,858 ft. Grand River Ave. East Berg Rd. Sewer, and 7,830 ft. Pembroke Ave. Arm East Hubbell Sewer; also repairing and extending Dubois St. dock and outlet.

Mich., East Lansing—July 23, by City, B. A. Faunce, clk., constructing Central Relief Sewer and Drain, 6,716 lin.ft. 36- to 60-in. pipe; adv. E. N.-R. July 21.

Ill., Chicago—July 28 (extended date), by H. C. W. Laubenheimer, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., North Side Intercepting Sewer Contr. 9, 7 river and channel crossings, etc. T. J. Crowe, pres. Noted July 14.

Ia., Maxwell—July 25, by City, E. L. Wood, city clk., sewage disposal plant, 58 manholes, 20,541 ft. 8 and 10 in. sewers in various streets. $40,000. Currie Eng. Co., Webster City, engrs.

Tex., San Antonio—Aug. 1, by State Bd. Control, Austin, H. H. Harrington, chn., improving sewage treatment plant, at State Hospital for Insane, here. Terrell Bartlett, Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Tex., Terrell—Aug. 1, by State Bd. Control, Austin, improvements and additions to sewerage plant, incl. incineration, etc., here, for Terrell State Hospital. $300,000. Terrell Bartlett, Engineers, Calcasieu Bldg., San Antonio, engrs.

Contracts Awarded

Mass., Beverly—South Essex Sewerage Bd., Fort Ave., Salem, Sect. 8, Rial Trunk Sewer, here, to V. Barletta, 10 Whipple Ave., Roslindale, $72,585; and Sect. 12 of Trunk Sewer, 690 ft. 48 in. iron pipe, to J. H. Ferguson, 289 Chapman St., Providence, R. I., $17,060. Noted June 16.

O., Cleveland—See "Streets and Roads."

O., Cuyahoga Falls — Sewers, etc. in Fairland Allotment, to W. McDowell & Sons Co., 4120 East 104th St., Cleveland, $30,458. Engrs. est. $30,000.

Ill., Dolton—For 8- to 24-in. vitr. tile and 24- to 84-in. concrete sewers in various streets, to Pastoret-Dorsey-Barrett Co., Duluth, Minn., $407,000. Engrs. est. $250,000. Noted Dec. 16.

Waste Disposal

Bids Desired

Wis., Shorewood—Aug. 1, by Village Bd., 30 ton per day, high temperature destructor Dutch oven type municipal garbage incinerator. H. A. Schmitt, village engr.

Bridges

Proposed Work

N. J., New Providence—Bd. Freeholders Union Co., Elizabeth, plans bridge over Passaic River, at Scotch Plains Rd., here. $30,000. J. L. Bauer, Elizabeth, engr.

Va., Danville—Making sketches rebuilding 825 ft. arched concrete, or concrete and steel traffic bridge, 54 ft., recently burned. Election soon $350,000 bonds for same. A. Saville, Madison Farms, Richmond, and C. A. P. Turner, 300 Builders Exch. Bldg., Minneapolis, Minn., engrs.

Ky., Paducah—Harrington, Howard & Ash, engrs., Orear-Leslie Bldg. Kansas City, Mo., takes bids about Aug. 15, 11 span 4,000 ft. bridge, to have 12 concrete piers, 2,400 ft. concrete trestle, 1,520 ft. Cantilever steel span, 20 ft. roadway across Ohio River, here, for Paducah Bd. Trade, C. W. Craig, secy. $2,100,000. Noted Mar. 31 under Kentucky and Illinois.

O., Lisbon—Comrs. Columbiana Co. take bids about Aug. 13, one span concrete bridge on Lincoln Highway near here, $36,000; also concrete bridge over Little Yellow Creek, at Wellsville, $58,000. L. C. Kirk, Lisbon, engr.

Ind., Williamsport—Aug. 1, by Bd. Comrs. Warren Co., Court House, constructing Bridge 282 "High Bridge" and Bridge 283 "Rainsville Bridge." O. K. Albright, co. engr.; adv. E. N.-R. July 21.

Tex., Amarillo—Chicago, Rock Island & Pacific Ry. Co., C. A. Morse, ch. engr, La Salle St. Sta., Chicago, Ill., made plans 2,400 ft. rein.-con. and steel bridge over Canadian River, 152 ft. above water level, here. $1,000,000. Most of construction will be done by day labor.

Bids Desired

N. J., Bridgeboro—Aug. 1, by State Hy. Comn., State House, Trenton, constructing single leaf bascule span bridge, over Rancocas Creek, on Route 2, Burlington Co., here. A. L. Grover, ch. clk.; adv. E. N.-R. July 21. Noted Feb. 24.

Mississippi — July 25, by Bd. Supervs. Jackson Co., Pascagoula, two 210½ ft. steel swing spans, operating machinery, electrical equipment, roadway gates, 61,533 ft. creosoted timber flooring, 865 sq.yd. rock asphalt wearing surface, 2 operators houses, roadway lights and wiring, for bridges over Pascagoula River at Pascagoula and over Dog River at Moss Point. Noted June 9.

Illinois—July 27, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridges in Moultrie, Piatt, Douglas, Richland, Monroe, and Madison counties. F. T. Sheets, ch. highway engr.

Ill., Chicago—July 28 (extended date), by H. C. W. Laubenheimer, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., substructure for double leaf trunnion bascule bridge over Main Drainage Channel of Sanitary Sewer Dist., on line of Crawford Ave., etc. T. J. Crowe, pres. Noted June 30.

Minnesota—July 26, by State Hy. Dept., St. Paul, one 120 ft. and two 50 ft. concrete bridges, also one triple 10 x 10 ft. monolithic culvert, on Rushford-Whalen Rd., State Project 9-21-2, Fillmore Co.

South Dakota—See "Streets and Roads."

Missouri—July 29, by State Hy. Comn., Jefferson City, two 12 ft. rein.-con. slab, one 40 ft. and two 35 ft. rein.-con. deck girder spans, etc. in Audrain Co.; seventeen 20 ft. rein.-con. slab, two 25 and 30 ft. rein.-con. deck girder and one 90 ft. steel truss spans, etc., in Chariton Co.; two 12 ft. rein.-con. slab, three 40 ft. rein.-con. deck girder, one each 60 ft. and 70 ft. steel truss spans, etc. in Cape Girardeau Co.; one 8 ft., two 12 ft., and one 16 ft. rein.-con. slab, three 40 and two 45 ft. rein.-con. deck girder spans, etc. in Lawrence Co.; three 30 ft. rein.-con. deck girder spans in Lincoln Co.; 40 ft. rein.-con. deck girder span in Cooper Co.; two each 12 and 20 ft. rein.-con slab and one 80 ft. steel truss spans in Pike Co. T. H. Cutler, ch. engr. Noted May 26.

Arkansas—See "Streets and Roads."

Oklahoma—July 26, by State Hy. Dept., Oklahoma City **(S.A.P. means State Aid Project)**, 3 span 140 ft. rein.-con. trestle bridge S.A.P. 250, near Westville, Adair Co., $30,000; 28 span 470 ft. pile trestle bridge over Red River at Headrick, Kiowa and Jackson Counties, $40,000, 34 span 140 ft. pile trestle bridge S.A.P. 483 at Fairview, Major Co., $40,000; and 1 span 110 ft. steel truss bridge on piers, S.A.P. 494, near Gould, Harmon Co., $30,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Calif., Los Angeles—Aug. 1, by Bd. Pub. Wks., 3 span 547 ft. concrete bridge and girder approaches, 56 ft. roadway, etc., over La Canada de la Alison, on 4th and Lorenna Sts. M. Butler, city bridge engr.

Que., Longueil — July 23, by L. E. J. Brais, bridge over River of Montreal in St. Joseph de Chambly Parish, for City. $150,000. I. E. Vallie, Quebec, engr.

Contracts Awarded

Maine—State Hy. Dept., Concord. Jeff Bracket Bridge, in Acton, to Ames Constr. Co., Somersworth, N. H., $23,027; bridge in Cornish, also one in Wells and Kennebunk, to Gulliver Co., 120 Exchange St., Portland, Me., $8,908 and $8,465 respectively; 2 bridges in Newfield, to E. Cyr, Waterville, $11,291; and 3 in Sebago, to J. A. and J. R. Partridge, Portland, $5,674, all concrete.

Rhode Island — State Bd. Pub. Roads, Providence, constructing Pocassett River Bridge 23, in Cranston, to H. M. Soule, 110 Brooks St., Pawtucket, $16,950; and Cottage Home Bridge 225, in Warwick, to Rendle Corp., 271 Marginal St., Chelsea, Mass., $4,100, both concrete and timber.

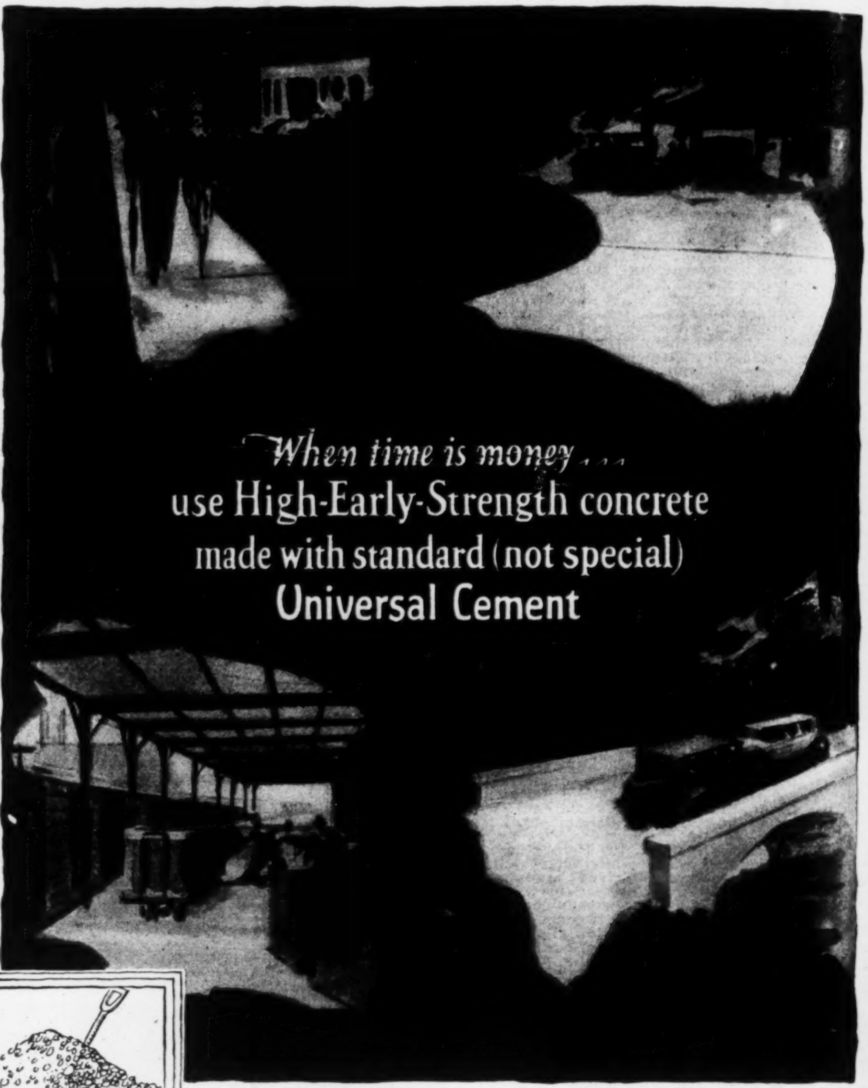
N. Y. Oswego—Oswego Co., A. E. Howard, supt., bridge over southern branch Salmon River at Port Ontario, here, to F. A. Buckland, Inc., 1131 Monroe Ave., Rochester, $43,999.

O., Cleveland—Cuyahoga Co., repairing bridge over Rocky River, on Lorain Rd., to Bituminous Constr. Co., Leader Bldg., $74,014. Engrs. est. $77,085. Noted June 16.

Iowa—State Hy. Comn., Ames, **(F. A. P. means Federal Aid Project, and P. B. P. Primary Bridge Project)**, 32 x 24 ft. skew deck girder bridge on F. A. P. 52, P. B. P. 241, Audubon Co., to Jensen Constr. Co., Kimball, $5,525, 3 bridges and 20 culverts on P. B. P. 356 and 399, Bremer Co., to A. Olson Constr. Co., Waterloo, $35,640, 2 bridges and 13 culverts on P. B. P. 140, Buchanan Co., to A. F. Johnson, Lockridge, $17,000, and to J. B. Elliott, Independence, $7,524, 2 bridges and 20 culverts on P. B. P. 387, Cass Co., to Lundgren-Reis Co., 65 College St., Des Moines, $43,867, and to E. C. Smith, Rockwell City, $13,582, 1 bridge and 4 culverts on P. B. P. 308, Tama Co., to Zitterel-Swanson, Webster City, $13,830, and 6 culverts on P. B. P. 201, Monroe Co., to Ellis & Jordan, Centerville, $1,696. Grand total $138,664. Noted June 23.

Ia., Dubuque—Dubuque Co., 2 I-beam bridges, 11 culverts and extensions, to

Constr. News page 28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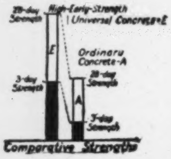

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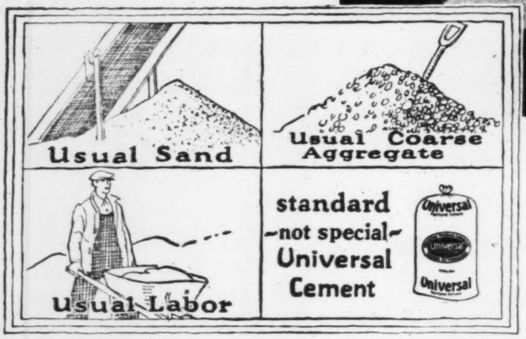
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Usual Coarse Aggregate
Usual Labor
standard
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CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Artificial silk plant, Camden, N. J., Furness Corp., plans, $10,000,000.

Oil pipe line, San Angelo, Texas, Texas-Ohio Oil Co. and Transcontinental Oil Co., making preliminary surveys, $7,000,000.

Pipe line and distributing systems, Marshall, Tex., Texas-Dixie Gas & Utility Co., plans, $5,120,000.

Railroad, Kansas City, Mexico & Orient Ry. Co., plans extension, $2,500,000.

Hotel, Scarsdale, N. Y., Equity Scarsdale Corp., N. Y. C., having plans prepared, $2,000,000.

Apartment hotel, Toronto, Ont., Ramsey, Stewart & Co., soon takes bids, $2,000,000.

Apartment hotel, Toronto, Ont., Garden Apartments c/o N. A. Armstrong & Co., Ltd., archts., having plans prepared, $1,500,000.

Hospital, Minneapolis, Minn., Estate Building Co., having plans prepared, $1,500,000.

Waterworks, Eugene, Ore., voted bonds, $1,250,000.

Cement plant, Louisville, Neb., Ash Grove Cement Co., Kansas City, Mo., will build, $2,000,000.

Bids Received

Subway, Philadelphia, Pa., Dept. City Transit, July 19 from Heyman & Goodman, N.Y.C., $7,629,880.

Waterworks, Corpus Christi, Tex., from Smith Bros., Crockett, $1,612,955.

Waterworks, Oakland, Calif., Directors East Bay Municipal Utility Dist., from G. Pollock Co., Sacramento, $1,370,685.

Contracts Awarded

Passenger station, Buffalo, N. Y., New York Central R.R. Co., N. Y. C., to Walsh Constr. Co., Syracuse, $12,000,000.

Gas pipe line, Texas and Louisiana, Dixie Pipe Line Co., Galveston, to Moody Seagraves Co., Orange, $10,000,000.

Factory, Pontiac, Mich., Yellow Truck & Coach Mfg. Co., Detroit, to J. A. Utley, Detroit, $8,000,000.

Factory, Los Angeles, Calif., B. F. Goodrich Rubber Co., Akron, O., to Foundation Co., N. Y. C., approx. $5,000,000.

Hospital, Detroit, Mich., Detroit Bd. of Health, to W. E. Wood Co., $2,387,219.

Warehouse, Long Island City, N. Y., Bloomingdale Bros., Inc., N. Y. C., to Turner Constr. Co., N. Y. C., $1,500,000.

Professional Bldg., New York, N. Y., Philsin Realty Corp., to Dwight P. Robinson & Co., $1,500,000.

Apartment, Seattle, Wash., Exeter Co., to H. F. Allan, $1,000,000.

News of the Week

Waterworks

Proposed Work

Mass., Charlestown (sta. Boston)—W. F. Schrafft & Sons Corp., 160 Washington St. N., Boston, plans condenser water intake and discharge pipes, and dredging Mystic River, etc., here. To exceed $15,000. Private plans.

Mass., West Townsend—Water Div. making surveys water system, incl. shallow wells, pumps, reservoir and water lines. $70,000. Parker, Bateman & Chase, High St., Clinton, engrs.

O., New Paris—Soon takes bids waterworks. $40,000.

Mo., Lilbourn—City postponed indefinitely construction waterworks and sewerage system. $70,000. A. C. Moore, Joplin Natl. Bank Bldg., Joplin, engr. Noted Sept. 16.

Tex., Beaumont—See "Unclassified."

Okla., Okay—Making preliminary plans new waterworks. $17,000. G. Howe, mayor. Engineer not selected.

Okla., Rosston—Made preliminary plans new waterworks. $18,000. G. Baxter, mayor. Engineer not selected.

Okla., Stillwater—Making plans waterworks improvements. Koch & Fowler, 801 Central Bank Bldg., Dallas, Tex., engrs.

Okla., Wagoner — Making preliminary plans main extensions, pumping equipment and additional storage. $40,000. A. McAllister, mayor. Engineer not selected.

Ore., Eugene—Voted $1,250,000 bonds, developing waterworks and power system from McKenzie River. W. C. Clubb, Court House, engr. Noted July 14.

Bids Desired

Conn., Hartford—Aug. 15, by Bd. City Water Comrs., Municipal Bldg., 3 mi. pipe line from Reservoir 6 to Reservoir 5. Adv. E. N.-R. July 28.

N. Y., Helmuth—Aug. 10, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, constructing and repairing water sections and bath rooms, at Gowanda State Hospital, here. S. W. Jones, Albany, state archt.; adv. E. N.-R. July 28.

N. J., Denville—Aug. 3, by Twp. Com., C. Lawrence, chn., Township Hall, drilling 1 or more 6 in. test wells, 1 or more well units, gravel filter type, with pump and motor, delivering 350 g.p.m; and 1 or more well units deep driven well type, each equipped with pump and motor delivering 350 g.p.m. G. W. Knight, 147 Prospect St., Passaic, consult. engr.; adv. E. N.-R. July 28. Noted July 14.

Md., Baltimore—Aug. 3, by Bd. Awards, c.i. pipe and fittings to Bureau Water Supply, for Mayor and City Council. G. F. Wieghardt, City Hall, water engr.

La., Colfax—Aug. 2, by Town, waterworks equipment. F. P. Joseph, Glenmora, consult. engr.

Ind., Martinsville—Aug. 1, by Common Council, at office H. H. Hammans, clk., 3 centrifugal pumps in buildings of Waterworks Dept.

Ill., Monmouth—Aug. 1, by City, 120 x 70 x 12 ft. rein.-con. storage reservoir. $20,000. Kinsey Eng. Co., Arcade Bldg., Pekin, engrs.

Idaho, Idaho Falls—Taking bids drilling and equipping well for water supply. E. F. Underhill, city clk.

Bids Received

Tex., Corpus Christi—H. Levinson, city engr., waterworks improvements including dam across Nueces Valley, to impound 100,000 acre ft. water, from Smith Bros., Crockett, $1,612,955.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Calif., Oakland—Directors East Bay Municipal Utility Dist., for Lafayette Dam, from G. Pollock Co., Forum Bldg., Sacramento, $1,370,685. Noted June 2.

Contracts Awarded

Mass., Cambridge (br. Boston)—Relining and waterproofing concrete reservoir at Payson Park in Belmont, to Rust Eng. Co., 311 Ross St., Pittsburgh, Pa. Engrs. est. $15,000 or more.

N. Y. Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenues L, R, T, Z, Bedford and Benson Aves., etc., here, to G. V. Cornell, 30 Egbert Pl., Rosebank, $26,420. Noted June 23.

N. Y. Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, altering structures along 72 in. steel pipe line on Conduit Blvd., here, to Johnson, Drake & Piper, 830 1st Natl. Soo Line Bldg., Minneapolis, Minn., $19,825. Noted June 23.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in 26th Ave., South Janes and 12th Sts., etc., here, to Norton Constr. Co., 21 East 40th St., New York City, $17,478. Noted June 30.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Maspeth and 70th Aves., etc., to Gregory Contg. Co., 351 East 124th St., New York City, $11,169; in Bayview Ave., Broad St., etc., here, to Riverdale Water Works Corp., 355 East 113th St., New York City, $10,900. Noted June 30.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Baisley, Barnes and Blackrock Aves., to Palladino Contg. Co., 437 East 120th St., $15,622. Noted June 30.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Bainbridge, Bouck, Castle Hill Aves., etc. to Norton Constr. Corp., 21 East 40th St., $11,617. Noted July 7.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, Contr. 805, to W. V. Pangbourne & Co., 1927 West Montgomery St., $5,676; Contr. 879, to Rumsey Electric Co., 1007 Arch St., $12,647; Contr. 887, to A. P. Smith Mfg. Co., East Orange, N. J., $18,120; Contr. 888, to P. and A. J. Ellis, 4th and Wyoming Sts., $13,311; and Contr. 889, to Penna. Eng. & Constr. Co., Real Estate Trust Bldg., $13,562. Grand total $63,316. Noted July 14.

La., Winnfield — Extending 6 and 8 in. mains, laterals, etc., in various streets, to J. B. McCrary Co., Citizens & Savings Bank Bldg., Atlanta, Ga., $44,000. Noted June 23.

O., Bay (br. Cleveland)—Mains in Carlton Dr. and Osborne Rd., to J. Kahill & Jackson, Prospect-4th Bldg., Cleveland, $3,020 and $19,938 respectively. Noted June 30.

Mich., Ypsilanti—H. C. Holmes, city clk., rein.-con. reservoir, for water plant, to Townsend Dailey Co., Ypsilanti, $34,429.

Wis., Milwaukee — For 7,380 ft. 6- to 20-in. mains in various streets, to F. E. Kornwiski, Milwaukee, $71,804.

Neb., Louisville—See "Buildings Industrial."

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, completing power and lighting switchboard for Howard Bend Waterworks Sta-

See proposal advertising on page 120

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NO CAULKING

Waterworks (Continued)

tion, at Hine, on Missouri River, to W. Wurdack Electric Mfg. Co., 21 South 11th St., $13,500. Engrs. est. $11,000. Noted June 16.

Tex., Sweetwater—Waterworks improvements, drilling and equipping 9 wells, to D. L. McDonald, Amarillo, approximately $28,000.

Okla., Earlsboro—New waterworks, incl. 2 deep well pumps and motors, 80,000 gal. tank on tower, 24,900 ft. 4- to 8-in. c.i. pipe, etc., to Standard Paving Co., 1742 East 6th St., Tulsa, $165,000. Engrs. est. $175,000. Noted June 23.

Okla., Sayre—New wells, pumps, motors, and main extensions, to Western Contg. Co., 1st Natl. Bldg., Oklahoma City, $56,950. Engrs. est. $63,000. Noted June 23.

Wash., Anacortes — Two 500,000 gal. filter units added to water works, to California Filter Co., Securities Bldg., Seattle, $23,476.

Sewers

Proposed Work

Conn., Hamden (br. New Haven)—Plans sewer in section bounded by Pine Rock and Gilbert Aves., State St. and Ridge Rd. $300,000.

Ind., Elwood—Soon takes bids constructing South District sewer. $64,000.

Ill., Dallas City—Bd. Local Impvts., W. F. Anguish, pres., takes bids about Aug. 1, 17,621 ft. 8 to 15 in. vitr. clay sewers four hundred and sixty-seven 6 in. wye service connections, 8,194 cu.yd. earth excav., etc. Caldwell Eng. Co., 36 North Side Sq., Jacksonville, engrs. Former bids rejected.

Wis., Cudahy—Making plans relief, storm and sanitary sewerage system. $1,000,000. R. A. Steinhagen, 845½ 38th St., Milwaukee, engr.

Minn., Sacred Heart — Village, A. N. Stenborg, recdr., plans sewage disposal plant and sewers in various streets. $35,000. Druar & Milionwski, 500 Globe Bldg., St. Paul, engrs.

Kan., Buhler—Voted $32,000 bonds, sewerage system. Devlin Eng. Co., 614 Bitting Bldg., Wichita, engrs.

Mo., Lilbourn—See "Waterworks."

Tex., Beaumont—See "Unclassified."

Tex., Houston—Soon takes bids sewers along Buffalo Bayou Dr. from Shepherd Dr. to point near exposition grounds. $70,000. J. C. McVea, city engr.

Tex., Houston—J. C. McVea. city engr., prepared plans and soon takes bids rein.-con. disposal plant, addition, incl. four 60 ft. square aeration tanks, 15 ft. deep, 300 ft. long, 30 ft. wide, etc., for City. $200,000. Noted May 5.

Okla., Frederick — Made preliminary plans storm sewers in various streets, business section. $25,000. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Stillwater—Making plans sanitary sewers in various streets. To exceed $25,000. Koch & Fowler, 801 Central Bank Bldg., Dallas, Tex., engrs.

Calif., Redwood City—Plans 68,146 ft. 4- to 12-in. vitr. and 752 ft. 4- to 12 in. c.i. sewer, etc. in various streets. To exceed $50,000. C. L. Dimmitt, city engr.

Calif., San Diego—Plans Switzer Storm Drain, 25,422 ft., 6- to 66-in. concrete pipe, etc. F. M. Lockwood, city engr.

Bids Desired

Mass., Boston—Aug. 3, by Dept. Pub. Wks., sewerage works in Cottage Ave., West Roxbury; and Aug. 4, in Kneeland St. Boston Proper. $25,000. J. H. Sullivan, comr.

R. I., East Providence (br. Providence)—July 29, by Com. on Sewage Disposal, Town Hall, 2 mi. 8- to 24-in. vitr. clay and c.i. sewers, also certain disposal works. City-Wastes Disposal Co., 45 7th Ave., New York City, engrs.

Conn., Mansfield—Aug. 1, by Trustees Mansfield Training School, sewers, filter bed and tank, etc. $25,000. C. M. Saville, 1026 Main St., Hartford, engr.

N. Y., Long Island City—Aug. 2, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Hampton, Carolin, and Van Dorne Sts., 60th (Pacific St.), Marabel, Kingsland, Warner, and Skillman Aves.

N. Y., New York—Aug. 4, by W. J. Flynn, acting pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in East 233rd St., Hill and Nereid Aves.

Pa., Phila.—Aug. 3, by Dept. Pub. Wks., Bureau of Engineering, branch sewers in various streets. G. H. Biles, dir.

Md., Gaithersburg—Aug. 10, at office Washington Suburban Sanitary Comr. Evans Bldg., New York Ave., Wash., D. C., two concrete sedimentation tanks, and sprinkling chamber, Contr. 62-S, here. R. B. Moorse, Hyattsville, ch. engr. district; adv. E. N.-R. July 28.

Ky., Fort Thomas—Aug. 8, by City, at office R. R. Pyne, city engr. sewage pumping station, force mains and appurtenant works; adv. E. N.-R. July 28.

Ky., Southgate (mail Newport)—Aug. 1, by City Clerk, City Hall, 22,700 ft. 6 to 10-in. vitr. clay sewers in various streets. $80,000. Former bids rejected. E. E. Nepper, 128 Walnut St., engr. Noted July 7.

O., Euclid (br. Cleveland)—Aug. 1, by Village sewer in Euclid Ave. (3 sections), Babbitt Rd. and Lake Shore Blvd. To exceed $50,000. F. A. Thomas, Town Hall, engr.

O., Lyndhurst (br. Cleveland)—Aug. 1, by Village, sewer in Clearview and Cranover Sts. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Ind., Indianapolis—July 29, by Bd. Pub. Wks., sewer in Sharon Ave., etc.

Neb., Curtis—Aug. 2, by D. C. Bancroft, city clk., 20,685 ft. 8 to 12 in. sanitary sewers, 600 manholes, etc. in various streets. $29,000. Nixon & Reynolds, 305 Grain Exch. Bldg., Omaha, engrs.

Tex., Galveston—Aug. 4, by C. A. Holt, city engr., 4,780 ft. 3½ ft. x 2 ft. 9 in. monolithic concrete and 4,570 ft. 18- to 24-in. vitr. clay or concrete trunk sewer in various streets, for City, A. C. Kelley, secy.

Calif., Los Angeles—Aug. 19, by Los Angeles Co. Sanitation Dist. 1, Mountain View Belle Vernon trunk sewer. A. K. Warren, Law Bldg., engr.

Calif., Lynwood—C. L. Stoddard, city clk., taking new bids vitr. sewer in Fernwood Ave. between Long Beach Blvd. and Bullis Rd., etc. (A & I No. 10), and Long Beach Blvd. between Tweedy and Abbott Rd., etc. (A & I No. 9) $200,000. R. B. Miller, city engr.

Calif., Lynwood — C. L. Stoddard, city clk., taking bids 30,934 ft. 6- to 10-in. sewer, etc. in A. & I. Impvt. Dist. 11. $50,000 or more. Noted June 30. R. B. Miller, city engr.

B. C., Point Grey—See "Contracts Awarded."

Contracts Awarded

Mass., Medford—Storm water drain, Sect. 2, to G. Ferullo Co., 31 North Sq., Boston, $15,000 or more.

Conn., Bridgeport — Trunk sewer in Brewster St., also sewers in Lindley, Alex, Higgins, Jewett, Gilman and Montgomery Sts., Pierce and Capitol Aves., to Clark Sewer Constr. Co., 194 Bronx Ave., $112,556, engrs. est. $115,000; also Brewster St. sewer siphon, in Burr Creek, to L. Jacques Constr. Co., 59 Carleton Ave., $24,948, engrs. est. $25,000.

N. Y., Albany—Bd. Contr. & Supply, City Hall, to S. B. Easton, 47 Fairlawn Ave., sewer in Cliff St. $17,910, Harding and Maxwell Sts., $13,331, and Twitchell St. $628; to H. Dumary, 119 State St., Cortland St., $103,254; and to E. B. Stevenson, 443 Bway., Southern Blvd., $4,405; to F. Sheehan, Inc., 446 Yates St., Harvard Ave. $1,136. Grand total $140,664. Noted June 16.

N. Y., Brooklyn—J. J. Byrne, pres. Brooklyn Boro, Boro Hall, to Peconi Contg. Co., 152 East 4th St., sewer in Hendrix St., $37,191; to S. Guerriero, 1024 66th St., East 40th St. $3,772; and East 8th St. $3,371; to Tozzi Bros., 1362 63rd St., in East 34th St. $5,861, and in Avenue N, $1,603. Grand total $56,072. Noted June 29.

N. Y. Cheektowaga (mail Depew)—For 20 mi. 10-to 36-in. Storm and sanitary sewers, also disposal plant, to Kenda Constr. Co., Cheektowaga, $907,330.

N. Y., New York—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to A. Musumecci & Sons, 277 East 146th St., sewer in Revere Ave. $2,321, Arnow Ave. $5,734, Barnes Ave. $6,675, and in Tenbrock Ave. $11,252; to Slack & Slack, 1621 Gates Ave., in East 149th St. $28,190, and Warring Ave. $2,615. Grand total $56,787. Noted July 7.

N. J., Newark—City, Sect. V, Supplementary Joint Trunk Sewer in East Orange, Hillside, Irvington, Maplewood, Millburn, Newark, Roselle Park, South Orange, Summit, Union and West Orange Twps., to Spiniello Constr. Co., 493 Marine Ave., Orange, $450,937. Noted June 30.

O., Akron—W. F. Peters, dir. Pub. Serv., 8,125 ft. 8 in. vitr. clay sewer, etc. in Garman Rd. et al., to B. F. Perry, 788 Noble Ave., $21,528. Engrs. est. $35,900. Noted Apr. 21.

O., Cleveland—For 2,075 ft. 10 ft. brick sewer in East 82nd St., to Winterbottom Connelly Co., 1400 West 25th St., $296,769.

O., Parma (br. Cleveland)—Sewers in 12 streets, Group "F," to Langenhan Constr. Co., Marshall Bldg., $92,867; also 2 streets, Group "G," to Yahya Bros., 3333 Woodbridge Ave., $34,900. Noted July 14.

Wis., Janesville—Approximately 21,791 ft. 8- to 30-in. sewers in various streets, to J. L. Knudson, Janesville $43,642. Noted June 9, under "Streets and Roads."

Neb., Louisville—See "Buildings—Industrial."

Tex., Raymondville — Sewerage system and disposal plant, to Southern Rd. Co., Houston; pipe, to San Antonio Machine & Supply Co., 325 North Centre St., San Antonio. Total $44,000.

B. C., Barnaby—For 70,555.7 ft. 6- to 15-in. sewers in various streets, to N. Cosco, 1174 Bway. W., Vancouver, $92,690, and to Cosco & Rosse, 619 Homer St., Vancouver, $53,370. Engrs. est. $150,000.

B. C., Point Grey—City will build main and trunk sewers in Ash St. and 16th Ave., by day labor. $32,000. W. B. Greig, 5851 West Blvd., Vancouver, engr.

Waste Disposal

Proposed Work

Ind., Anderson—Making plans garbage disposal plant. $140,000. M. H. Downey, City Hall, engr.

Bridges

Proposed Work

R. I., Providence—Making plans concrete bridge, Crawford St. $25,000. S. F. Nolan, city engr.

Kan., Eureka — Greenwood Co. making plans one 30 ft., one 120 ft. and one 1[illegible] ft. span, steel truss and I-beam bridge. E. Christian, Eureka, co. engr.

Kan., Paola — Miami Co. making plans one 100 ft. and four 40 ft. concrete arch steel deck bridge. L. E. Keefer, Paola, engr.

Mo., Springfield—Takes bids about Aug. 10, Benton Ave. Viaduct $75,000; and Grant Ave. Viaduct; $90,000. Russell & Axon, McDaniels Bldg., engrs. Noted Apr. 21.

Ore., Salem — Making plans bridge, on Sundry St. $350,000. H. M. Rogers, Court House, Salem, engr.

Ont., Sparta—Elgin Co., Court House, St. Thomas, plans 1 or 2 span 175 ft. steel and concrete bridge, 3 mi. east of here. $40,000. J. A. Bell & Son, Court House, St. Thomas, engr.

Bids Desired

Maine—Aug. 4, by State Hy. Comn., Augusta, Gully Brook Bridge in Orland; Lower Village Bridge in Phillips; Cain Bridge in Clinton; Oxford County Tool Bridge in Bethel; and Sunday River Bridge in Bethel. State Hy. Comn. State House, Augusta, engr.

Mass., Huntington—Aug. 2, by Dept. Pub. Wks., Boston, 1,897 ft. steel bridge with gravel approaches, here, for Commonwealth of Massachusetts, Boston. W. F. Williams, comr.

New York—Aug. 12, by A. W. Brandt, comr. Highways, at office State Pub. Wks., Bldg., Albany, constructing bridges, etc. on roads in Erie and St. Lawrence Counties; also reconstructing bridges in Broome, Cattaraugus, Erie, Lewis, Rensselear, St. Lawrence and Warren Counties. Adv. E. N.-R. July 28.

N. J., Matawan—Aug. 15, by State Hy. Comn., Trenton, 265 ft. concrete and steel bridge on Route 4, Sect. 34A, Monmouth Co., here. A. L. Grover, clk.; adv. E. N.-R. July 28. Noted June 30.

Florida—Aug. 16, at office State Rd. Dept., Tallahassee, constructing 496 ft. bridge on Project 700-B, Rd. 19, Jefferson Co.; and 297 ft. bridge on Federal Aid Project 6-B, Rd. 1, Madison Co. J. L. Cresap, state engr.

Wisconsin—See "Streets and Roads."

Ia., Audubon—Aug. 2, by Auditor Audubon Co., repairing wood pile sub-structure under 60 ft. pony trusses. A. J. Van Sise, Audubon, co. engr.

Wis., Muscoda—Aug. 5, by State Hy. Comn., at Village Hall, constructing Muscoda Bridge, incl. 1,167,600 lb. structural steel and 91,550 lb. reinforcing, etc. C. H. Kirch, Madison, bridge engr.

Calif., Galivan (mail El Toro)—Aug. 8, by State Hy. Comn., Sacramento, one 30

Constr. News page 40

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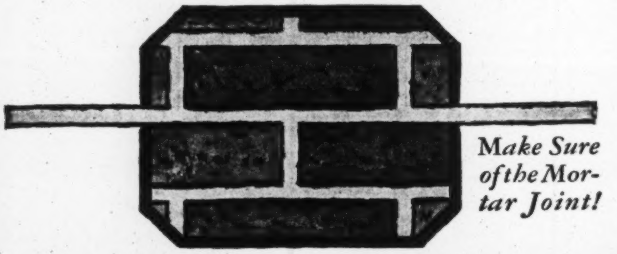

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Bridges (Continued)

ft., two 40 ft. and two 50 ft. span rein.-con. girder bridge over Atchison, Topeka & Santa Fe Ry. tracks, near here, Orange Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Contracts Awarded

New York—A. W. Brandt, comr. Highways, Albany, **(e.e. means engineers estimate)** constructing 90 ft. bridge on Repair Contr. 1629, Highway 1247, Moscow-Genesee Highway, also 95 ft. span and widening I-beam bridge on Repair Contr. 1627, on Big Tree Highway 86, Erie Co. to Oatka Eng. & Constr. Co., Warsaw, $42,230 and $59,525 respectively e.e. $60,284 and $73,795 respectively; 14 ft. span bridge, Repair Contr. 1623, Middle Granville-North Granville, Highway 5648, Washington Co., to W. M. Bronk, Hudson Falls, $9,758 e.e. $11,515; 80 ft. span girder bridge, Repair Contr. 1622 Medina-Alabama Highway 395 Orleans Co. and concrete bridge on Repair Contr. 1628, Hamlin Part 1, Highway 80, Monroe Co. to Ingersoll & Barhite, Medina, $38,545 and $16,528 respectively e.e. $48,902 and $20,644 respectively; 40 ft. span I-beam bridge, Repair Contr. 1621, Manchester-Clifton Springs, Highway 607, Ontario Co., to F. Callahan, Auburn, $21,885 e.e. $26,794; Grand total $188,471. Noted June 30 under "Streets and Roads."

N. J., Newark—Lehigh Valley R.R. Co., 143 Liberty St., New York City, G. H. Hand, ch. engr. and Pennsylvania R.R. Co., Broad St., Sta., Phila., Pa., T. J. Skillman, ch. engr., pneumatic caisson foundations for 3,950 ft. bridge over Newark Bay, here, to A. McMullen Co., 50 Church St., New York City; also open cofferdam piers and abutments, to Henry Steers, Inc., 17 Battery Pl., New York City. Noted Mar. 31.

Pennsylvania—"See Streets and Roads."

Pa., Phila.—Dept. Pub. Wks., Bureau Engineering, Bridge Div., reflooring Girard Ave. Bridge over Schuylkill River, to M. and J. B. McHugh, 892 North Market St., $157,145. Noted June 30.

Louisiana—State Hy. Comn., Reymond Bldg., Baton Rouge, substructure and approaches to Chef Menteur and Rigolets Free bridges, on Chef Menteur Highway, Orleans and St. Tammany Parishes, to Frederick Snare Corp., 114 Liberty St., New York City, N. Y., $944,441. Noted May 28.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, bridge on Project 212, McNairy Co., to W. H. Shons Co., Freeport, Ill., $60,360.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, to Roberts Supply Co., Lima, 70 ft. concrete bridge on Sect. "A-I" Delphos-Upper Sandusky Rd., Allen Co. $36,435, bridge on Sect. "E" Dayton-Covington Rd., Miami Co. $13,659, and concrete beam bridge on Sects. "B" and "C" Dayton-Springfield Rd., Clark Co. $17,777; to A. K. Grandle Co., Leesburg, concrete bridge, Sect. "L-2" Cincinnati-Chillicothe Rd., Highland Co., $9,375; to F. L. Cox, Kensington, slab bridge and approaches, Sect. "C" Canton-Steubenville Rd., Carroll Co., $3,369; to T. E. Wren & Son, Springfield, 2 bridges and 7 culverts, Sects. "B" and "C" Dayton-Springfield Rd., Clark Co., $5,839; to Universal Constr. Co., Portsmouth, concrete girder bridge on Sect. "B" Waverly-Coopersville Rd., Pike Co., $21,100; to J. W. Weeks, Gibbons Arcade, Dayton, culverts, Sects. "E" and "J" Cincinnati-Dayton Rd., Montgomery Co., $7,959. Grand total $115,513. Noted June 23.

Ia., Eldora—City and Hardin Co., 235 x 24 ft. concrete open spandrel arch bridge with two 5 ft. sidewalks, on Oak St., to Welden Bros., Iowa Falls, $46,400. Noted June 16.

Ia., Toledo—Tama Co., 1 pony truss bridge (county furnishes steel), to Ingersoll-Stoufer Eng. Co., Marshalltown, $5,590; 1 double I-beam bridge, to A. Melberg, Cedar Rapids, $7,200; and 1 high truss pony bridge, to A. Olson Constr. Co., Waterloo, $16,400. Total $29,190.

Mont., Cyr (mail Rivulet)—State Hy. Comn., Helena, concrete and steel truss bridge, here, Mineral Co., to W. P. Roscoe, Billings, $67,142. Engrs. est. $61,930.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, 2 span 80 ft. viaduct, 100 ft., to carry Delmar Blvd. over Wabash Ry. tracks, to Dunham Constr. Co., Chemical Bldg., $88,253. Noted June 9.

Texas and Mexico—Starr County Bridge Co., c/o A. Y. Baker, pres., McAllen, Tex., 8 span 400 ft. steel and concrete toll bridge across Rio Grande River between Roma, Tex. and St. Pedro De Roma, Mex., to Piling & Foundation Co., Roma, approximately $100,000. Noted May 12 under "Roma, Tex."

Tex., Bishop—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

California — State Hy. Comn., Sacramento, 3 bridges between Livermore and Dublin, Alameda Co., to G. J. Ulrich, Modesto, $24,474. Noted June 9.

B. C., Cheakamus—Pacific Great Eastern Ry., 579 Dunsmuir St., Vancouver, H. Rindal, ch. engr., substructure 100 ft. and 50 ft. span bridge over Cheakamus Canyon, here, to Stewart & Barber, 736 Granville St., Vancouver, $25,000.

British Columbia—See "Streets and Roads."

Dams

Proposed Work

Ont., London—E. V. Buchanan, engr. c/o Utilities Comn. (owner) takes bids about Aug. 15, rein.-con. dam. $250,000. Noted Dec. 30.

Contracts Awarded

Mass., East Walpole—Bird & Sons, concrete dam, to J. Gascoigne & Co., Inc., 6 Beacon St., Boston. Engrs. est. $25,000. Noted July 7.

Ontario — Dept. Railways & Canals, Parliament Bldgs, Ottawa, concrete dam, on Trent Valley Canal, at Lock 24, between Lakefield and Peterborough, to Constr. & Eng. Ltd., 72 Queen St. W. Toronto. Engrs. est. $90,000. Noted May 26 under "Peterborough."

Railways

Proposed Work

Texas—Kansas City, Mexico & Orient Ry. Co., c/o W. T. Kemper, Wichita, Kan., plans 82 mi. extension, incl. trackage, grading, etc., from Alpine to point near Presidio, here, $2,500,000. W. L. Churchill, Wichita, Kan., ch. engr. Private plans.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Ill., Peoria—Pekin-La Marsh D. D., c/o Kinsey Eng. Co., Arcade Bldg., Pekin, takes bids about Aug. 30, approximately 110,000 cu.yd. earthwork for levee, in Peoria Co. here.

Bids Desired

N. Y., New York—Aug. 4, by M. Cosgrove, comr. Docks, Pier "A", foot of Battery Pl., bulkhead wall at East 17th St., East River, incl. dredging, new bulkhead platform, rip rap, etc.

Miss., Clarksdale—Aug. 4, by Bd. Levee Comrs. Yazoo-Mississippi Delta, approximately 58,100 cu.yd. sub-levee work, and 15,500 cu.yd. short spur levee work, and 220,000 cu.yd. new loop at Burks Landing. W. L. Head, ch. engr.

Ark., Bridge Junction—Aug. 1, by Bd. of Directors St. Francis Levee Dist., approximately 70,000 cu.yd. sub-levee. H. N. Pharr, Bridge Junction, ch. engr., here.

Quebec—Aug. 2, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., constructing breakwater at Hopetown West (Miller and Mann Rd.), Bonaventure Co., here. $25,000.

N. S., Port Hood—Aug. 2, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., dredging in Murphy's Pond, here.

N. B., Point Sapin — Aug. 2, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., extending breakwater, here. $30,000.

Contracts Awarded

Mass., Cambridge (Boston P. O.)—Cambridge Electric Light Co., 46 Blackstone St., concrete retaining wall, to J. J. Tobin, 515 Green St. Engrs. est. $40,000. Noted June 30.

Tex., Bishop—Nueces Co., Bishop-Driscoll D.D., 3, drainage system, 458,184 cu.yd. drains, and 33 small bridges, etc., to J. C. Ballinger, San Benito, approximately $160,000. Noted June 30.

Streets and Roads

Bids Desired

Massachusetts—Aug. 2, by Dept. Pub. Wks., Boston, gravel with bituminous surface treatment paving 5,121 ft. highway in Gill; bituminous macadam paving 4,100 ft. highway in Marlborough, 5,020 ft. in Pittsfield, and 4,100 ft. in Ayer; also bituminous concrete paving 2,600 ft. highway in Nantucket, all 18 ft. W. E. Williams, comr.

Massachusetts—Dept. Pub. Wks., Boston, taking bids gravel with bituminous surface treating 8,250 ft. highway in Hadley, 18 ft. W. F. Williams, comr.

Mass., Hudson—See "Contracts Awarded."

N. Y., Brooklyn—Aug. 3, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading and granite block on 6 in. concrete paving Dikeman St. and Nassau Ave; granite block on sand paving Avenue U; grading and sheet asphalt on 6 in. concrete repaving Gravesend Ave.

N. Y., Lawrence—Aug. 15, at office J. Lougheim, village clk., Fire House, sheet asphalt, asphalt block, bituminous concrete, or warrenite repaving 4.17 mi. various streets. Stillman & Van Siclen, Inc., 227 Front St., New York City, engrs., adv. E. N.-R. July 28.

N. Y., New York—Aug. 4, by W. J. Flynn, acting pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., granite block on concrete paving, etc. East 168th St., 2 in. asphalt on concrete paving East 158th St. and Clark Pl.; grading, curbing sidewalks and sheet asphalt paving Loring Pl.; and grading, sidewalks, etc., on West 175th St. and East Tremont Ave.

N. Y., St. George—Aug. 3, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading Purcell St.; grading and bituminous concrete paving Tompkins Ave.; and bituminous macadam paving, etc., Mountain View Ave.

N. J., Freehold—Aug. 17, by Bd. Freeholders Monmouth Co., rein.-con. reconstructing 1.82 mi. Freehold-Englishtown Rd. 22, Sect. 1, and 1.09 mi. Farmingdale-Belmar Rd. 32, Sect. 1. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr., adv. E. N.-R. July 28.

N. J., Ridgefield Park—Aug. 9, by Bd. City Comrs., 232 Main St. grading and concrete paving Roosevelt Ave. from Preston St. to northerly boundary city line, $40,000; and Lincoln Ave. from Hackensack Ave. to Cedar St., $50,000. T. R. Boswell, 166 Johnson Ave., Dumont, engr.

N. J., Teaneck (mail West Englewood)—Aug. 2, by Twp. Com., Municipal Bldg., curbing, sewers and 6 in. rein.-con. paving Princeton Rd., Oak and Walnut Sts. A. Noack, 235 Main St., Hackensack, engr.

Pennsylvania—Aug. 12, by State Hy. Comn., Harrisburg, grading, rein.-con. bituminous and bituminous concrete paving approximately 26 mi. 21 projects in 20 counties. J. L. Stuart, secy. highways; adv. E. N.-R. July 28.

Pa., Phila.—Aug. 2, by Dept. Pub. Wks., Bureau of Highways, grading; asphalt paving (assessment work); asphalt repaving; redressed granite block repaving; paving and repaving 9th St.; grading and improving City Ave. and 57th St.; repairing bridges; asphalt paving mixtures; asphaltic concrete paving materials; crushed stone and bituminous material, etc. G. H. Biles, dir.

Maryland—Aug. 2, by State Rd. Comn., Baltimore, concrete or Amiesite paving 1.45 mi. highway through Campus of University of Maryland at College Park, Contr. P-77. Prince George Co., J. N. Mackall, chn.

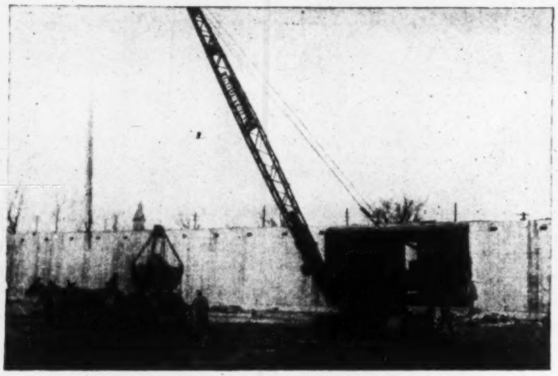
Md., Baltimore—Aug. 2, by State Rds. Comn., Baltimore, grading, concrete and sheet asphalt paving various roads in Montgomery, Prince Georges, Baltimore, Anne Arundel, and Kent Counties, etc. J. N. Mackall, chn.; adv. E. N.-R. July 28.

Md., Baltimore—Aug. 3, by Bd. Awards, paving streets listed in Contr. 421. S. Percell, City Hall, highways engr.

Virginia—Aug. 11, by State Hy. Comn., Richmond, grading 8 mi. Project SI39C and S162DC; grading and bridging 3 mi. S494A; and bituminous macadam paving 3 mi. S505. C. S. Mullen, ch. engr.; adv. E. N.-R. July 28.

Va., Appalachia—Aug. 2, at Mayors Office, L. P. Witt, clk., grading and concrete paving 11,050 sq.yd. various streets; adv. E. N.-R. July 28.

Ga., Calhoun—Aug. 1, by J. C. Garlington, City Hall, grading, curbing and concrete paving 7,800 sq.yd. roadway, here. Wiedeman & Singleton, Candler Bldg., Atlanta, engrs.



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Streets and Roads (Continued)

Florida—Aug. 16, at office State Rd. Dept., Tallahassee, **(P. means Project and R. Road)** grading, etc. 17.75 mi. P.518 and 13.19 mi. P.535, both R.5-A, Lafayette Co.; 6.23 mi. P.624, R.50 Hamilton Co.; 14.91 mi. P.706-BR.28, Putnam Co.; 7.98 mi. P.708 R.11, 9.65 mi. P. 722, R.11, and 8.83 mi. P. 722, R.43, all Jefferson Co.; 11.76 mi. P. 723, R.66, Leon Co.; and 12.23 mi. P. 763, R.50, Suwannee Co. J. L. Cresap, state engr.

Louisiana—Aug. 2, by State Hy. Comn., Baton Rouge, grading and graveling 11.46 mi. Baton Rouge Greensburg Highway, State Project 490-B, East Baton Rouge Parish; also widening roadbed embankment and graveling 8.894 mi. Abita Springs-Pearl River Highway, State Project 578-A, St. Tammany Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, state engr.

Kentucky—Aug. 26, by Hy. Comn., at office of E. N. Todd, highway, engr., Old Capitol Bldg., Frankfort **(F. A. means Federal Aid, and S.P. State Project), surfacing** 11.4 mi. Fulton Mayfield Rd., F.A. 146, Fulton, Graves and Hickman Counties; grading and surfacing, etc. 5.4 mi. Cynthiana-Brooksville Rd., Harrison Co.; grading, etc. approximately 8.75 mi. New Castle-Frankfort Rd., S.P. 64½-A, Henry and Shelby Counties, 10 mi. Clinton-Mayfield Rd. and 9.8 mi. Columbus-Clinton Rd., S.P. 7-E, both Hickman Co., 10.9 mi. Inez-South Kermit Rd., S.P. 34-B, Martin Co., 8.9 mi. Tompkinsville-Scottsville Rd., S.P. 37-B, Monroe Co., 4 mi. Louisville-Bedford Rd. S.P. 13-A, Oldham Co., and 8.1 mi. Louisville-Bedford Rd., Oldham and Henry Counties.

Ohio—July 29, by G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, grading and paving, etc. with **(a)** brick, except brick **(b)** brick not incl. brick **(c)** concrete and **(d)** sheet asphalt 3.178 mi. Sects. "A" and "B" Cleveland-Elyria Rd., Cuyahoga Co. **(a)** $254,296 **(b)** 243,226 **(c)** $287,518 **(d)** $267,983, 0.6 mi. Sect. "I" Natl. Rd., Guernsey Co. **(a)** $23,168 **(b)** $22,217 **(c)** $21,014, 0.634 mi. Sect. "Kirkersville" Natl. Rd., Licking Co. **(a)** $20,539 **(c)** $19,350, 3.399 mi. Sect. "E" Mansfield-Cresline Rd., Richland Co. **(a)** $104,042 **(c)** $103,360, and 0.579 mi. Sect. "Dalton" Wooster-Massillon Rd., Wayne Co. **(a)** $23,922 **(c)** $20,743; grading and waterbound or bituminous macadam paving 4.667 mi. Sects. "E" and "I" Ohio River Rd., Clermont Co., $231,714; widening and waterbound macadam surfacing 2.031 mi. Sect. "F" Mansfield-Cresline Rd., Richland Co., $17,733; also grading, etc. 0.379 mi. Sect "I" McArthur-Athens Rd., Athens Co. $8,018, 5.628 mi. Sect. "E", etc. Canton-Steubenville Rd., Carroll Co. $39,133, and 0.819 mi. Sect. "K", etc. Ohio River Rd., Washington Co., $23,847.

O., Akron—Aug. 8, by W. F. Peters, dir. Pub. Serv., paving, etc. 40,000 sq.yd. Firestone Blvd. N., Whittier, Rhodes and Delia Aves., East South, Bowery and Princeton Sts. E. A. Kemmler, highway engr.

O., Cincinnati—Aug. 5, by Comrs. Hamilton Co., curbing, walks and 10 in. concrete paving 57,600 sq.yd. Montgomery Rd. $311,783. E. A. Gast, Court House, engr.

O., Lyndhurst (br. Cleveland) — Taking bids walks and paving, etc. Haversford Dr. and Evanston Rd. To exceed $25,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Ind., Bloomfield—Aug. 9, by Auditor Greene Co., concrete paving W. G. Roth Rd. $34,541, and J. D. Myers Rd. $4,517, both Jefferson Twp.; also graveling E. Gambill Rd., Wright Twp., $24,520.

Ind., Brazil—Aug. 2, by Comrs. Clay Co., graveling Critchfield Rd. $16,908, and Roger Rd. $9,511, both Lewis Twp.

Ill., Galesburg—Aug. 2, by Bd. Local Impvts., grading, vitr. brick on 4 in. concrete paving, etc. 9,920 sq.yd. Arnold St. $40,079. A. L. Richey, Galesburg, engr.

Ind., Goshen—Aug. 4, by Bd. Comrs. Elkhart Co., Court House, grading and concrete paving, etc., 3,892 ft. S-4 Emanuel Rohrer et al Rd. $18,500; and 14,000 ft. County Unit Rd. 5 $66,000, both in Harrison Twp.

Ind., Greencastle—Aug. 2, by Comrs. Putnam Co., Court House, grading, emulsified asphalt paving, etc. Paul F. Cook et al Highway, $129,264 and Walter S. Campbell et al Highway $29,605, both Marion Twp.; Albert M. Gardner et al Highway, Rullsee Twp., $28,790; J. W. Britton et al Highway, Franklin Twp., $12,656; and Ora M. O. Hair et al Highway, Greencastle Twp., $13,738. W. D. Lovett, co. aud.

Ind., Kokomo—Aug. 3, by Comrs. Howard Co., graveling Thatcher Rd. $5,761, and Greeson Rd., $15,751, both Harrison Twp.; also Clevenger Rd., Center Twp. $24,078.

Ind., Indianapolis—Aug. 1, by Bd. Pub. Wks., grading and wooden block, brick, asphalt or asphaltic concrete paving, etc. New Jersey St. from north property line of 58th St. to south property line 61st St., and Shannon Ave. from north curb line 10th St. to point 62.48 ft. north of north property line 13th St.; Boulevard Pl. from south property line 36th St. to north property line 49th St.; and Talbott St. from south property line Palmer St. to north property line Adler St.

Ind., Kokomo.—Aug. 3, by Bd. Comrs. Howard Co., gravel surfacing, etc. David Greeson Rd. et al., Rd. $15,751, and William H. Thatcher et al, Rd. $5,761, both in Harrison Twp.; also Frank Clevenger et al., Rd., in Center Twp., $54,348.

Ind., Princeton—Aug. 2, by Bd. Comrs. Gibson Co., at office of A. M. Johnson, aud., improving Hays Christmas et al. Rd. $23,343; and J. R. Montgomery, J. R. Bell et al. Rd. $21,315.

Ind., Rochester—Aug. 6, by Bd. Comrs. Fulton Co., concrete paving Roy Morris et al. Rd. in Henry Twp., $32,285; and constructing William Fernbaugh et al Rd. in Aubbeenaubbee Twp., $30,500. C. V. Leonard, aud.

Michigan—Aug. 2, by C. L. Cowgill, resident engr., Plymouth, concrete paving 0.814 mi. Mo. 82-6, Contr. 4 Wayne Co. 40 ft., for State Hy. Dept., Lansing.

Michigan—Aug. 2, by G. D. Tramp, resident engr., Crystal Falls, 4 in. graveling 11.5 mi. Mo. 42-3, Contr. 4, Keeweenan Co., 18 ft., for State Hy. Dept., Lansing.

Michigan—Aug. 4, by G. D. Tramp, resident engr., Crystal Falls, grading and graveling 7.641 mi. F O 66, 14 C1, Ontonogan Co., 18 ft. for State Hy. Dept., Lansing.

Wisconsin—Aug. 2, by State Hy. Comn., J. R. Reinhardt, Alma, and G. F. Goff, Sparta, highway comrs. Buffalo and Monroe Counties, at Court House, La Crosse, grading etc. 26,981 cu.yd. Wilton-Norwalk Rd., State Project 5848, Monroe Co., and constructing Meyers Bridge on same Rd., State Job B-5770; also grading and shale surfacing 4,728 cu.yd. Mondovi-Eleva Rd., State Project 5875, Buffalo Co., and constructing Goss Bridge on same road, Job B-5745. T. M. Reynolds, div. engr.

Wis., Hudson—Aug. 1, by G. R. Hosford, city clk., grading, paving, etc. approximately 14,542 sq.yd. various streets. L. P. Wolff, 903 Globe Bldg., St. Paul, Minn., engr.

Ia., Allison—Aug. 1, at office Auditor Butler Co., graveling, etc. 17,575 cu.yd. Project 5. D. W. Burch, Allison, co. engr.

Ia., Atlantic—Aug. 2, at office Auditor Cass Co., grading, etc. 13,000 cu.yd. road. Address County Engineer.

Ia., Idagrove—Aug. 2, at office Auditor Ida Co., grading, etc. 102,500 cu.yd. Ida Grove-Schleswig Rd. G. W. Witters, Idagrove, co. engr.

Ia., Newton—Aug. 2, at office Auditor Jasper Co., graveling 4 mi. road, incl. 3,200 cu.yd. gravel f.o.b. cars, and 4,600 half mile haul units; also grading 16,000 cu.yd. Sully-Kilduff Rd. Address County Engineer.

Ia., Sioux City—Aug. 2, at office Auditor Woodbury Co., graveling, etc. 6.68 mi. road extending from Moville south. J. C. McLean, Sioux City, co. engr.

Ia., Spencer—Aug. 1, at office Auditor Clay Co., grading, etc. 121,315 cu.yd. primary secondary road. F. Campbell, Spencer, co. engr.

Minn., Waseca—Aug. 16, by H. A. Panzram, aud. Waseca Co., grading, etc. 78,000 cu.yd. State Road 12, Job 2702; and 90,000 cu.yd. State Road 22, Job 2709. $40,000.

N. D., Minot—Aug. 8, by G. A. Reishus, city aud., various types paving, approximately 12 blocks streets in Paving Dists. 19, 20, 22 and 23. $54,000. W. W. Peterson, city engr.

Washington—Aug. 9, by State Hy. Comn., Olympia **(S.R. means State Road)**, grading approximately 1.8 mi. S.R. 12, Pacific Co. and 4.8 mi. same road, Lewis Co.; crushed graveling approximately 24.7 mi. S.R. 5, Lewis Co.; also widening and concrete patching 3 mi. S.R. 1, Skagit Co. S. J. Humes, Olympia, state highway engr.

California—Aug. 8, by State Hy. Comn., Sacramento, grading 21.3 mi. roadway between Coso Junction and Olancha, Inyo Co.; also grading and concrete paving 5.7 mi. roadway between point 1 north and point 5.7 mi. north of Galivan, Orange Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Calif., Los Angeles—Aug. 8, by Bd. Supervs. Los Angeles Co., grading, curbing, guttering and 4 in. waterbound macadam on oil and rock surfacing 341,762 sq.ft. Kendrick Ave. et al. $72,444. G. W. Jones, Hall of Records, engr.

Calif., Redwood City—E. M. Kneese, clk. San Mateo Co., taking bids and open same about Aug. 1, curbing, guttering and 2 in. Durite asphaltic concrete on waterbound macadam paving, etc. Rio Verde, Acacia and Oriente Sts., etc. To exceed $25,000. G. A. Kneese, Redwood City, co. surv.

Calif., Sacramento—H. Hall, clk. Sacramento Co., taking bids asphaltic macadam paving 1½ mi. Rio Linda Rd., 16 ft. C. Deterding, Jr., Sacramento, co. surv.

Calif., Stockton—A. L. Banks, city clk., taking bids curbing, walks and 2½ in. asphaltic concrete on 2 in. gravel paving, etc. 133,672 sq.ft. Bungalow Park, Broschi Tract, et al. To exceed $60,000. W. B. Hogan, city engr.

Contracts Awarded

Massachusetts—Dept. Pub. Wks., Boston, W. F. Williams, comr. bituminous macadam paving 3,550 ft. highway in Braintree, to E. C. Sargent, Quincy $25,470, 12,872 ft. in Monson, to New Haven Road Constr. Co., 20 Hill St., New Haven, Conn., $106,870, 10,149 ft. highway in Amesbury and Salisbury to J. E. Watkins, Amesbury $61,678, and 3,395 ft. in Dover and Medfield, to E. O'Toole, Westwood $21,024; rein.-con. paving 5,250 ft. in Taunton to J. McCormick, Seekonk, $52,196; and concrete paving in Gay Head, to Carr & Russell, 18 Phillips St., Greenfield, $10,425. Grand total $277,663. Noted June 30.

Mass. Boston—Dept. Pub. Wks., sheet ashalt or bitulithic paving Brookline Ave., Wards 4 and 10, to H. F. Malley, 96 Tyndale St., Roslindale, $51,968. Noted June 30.

Mass., Braintree (Ind. br. Boston)—Bd. Selectmen, Town Hall, sheet asphalt resurfacing Union St., to E. G. Sargent, 89 Canal St., Quincy, $43,370.

Mass., Cambridge (Boston, P. O.)—Metropolitan Dist. Comn., Boston, grading and surfacing Northern Traffic Artery, from Broad Canal to Lechmere Sq., here, to J. H. Fannon, 39 Powder Hose Terrace, Somerville, $125,574. Noted July 21.

Mass., Hudson—City will pave with bituminous macadam Shawmut Ave., by day labor. $25,000. Woodbury & Parker, Hudson, engrs.

New York—A. W. Brandt, comr. Highways, Albany **(e. e. means engineers estimate)** improving 0.98 mi. County Rd. 48-A Creek Rd.; Niagara Co., to Ingersoll & Barhite, Medina, $45,966 e.e. $57,697; 5.89 mi. Middle Falls-South Argyle Rd., Highway 1759, Washington Co., to L. Longhi & Son, 42 Calhoun St., Torrington, Conn., $238,159 e.e. $315,516; 9.89 mi. Highway 807, Waldo Corners-North Pharsalia-Kirk Rd., Chenango Co., to Belmar Contg. Co., Proctor Bldg., Troy, $394,526 e.e. $534,235; 9.19 mi. Catskill-South Cairo, Highway, 613, South Cairo-Cairo, Highway 887, Cairo Hamlet Rd., Green Co., to Troy Paving Co., Gay Bldg., Troy, $428,316 e.e. $599,798, 10.19 mi. Highway 8283 Corfu-Batavia Rd., Genesee Co., to H. L. Mack, Ellicott Sq. Bldg., Buffalo, $480,261 e.e. $634,292; 5.46 mi. Highway 1764, Wellsburg-Waverly Rd., Part 1, Chemung Co., to Bolton Suits & Bolton, Watkins Glen, $294,484 e.e. $388,999.

N. Y., Albany—Bd. Contr. & Supply, City Hall, to F. Sheehan, Inc., 446 Yates St., improving Austain Ave. $17,904, Watervliet Ave. $117,834. Roosevelt St. $17,358, and West Lawrence St. $9,223; to J. J. Rigney, 339 Columbia St. Rensselaer, Bertha St. $7,147; to S. B. Easton, 47 Fairlawn Ave., Clermont St., $24,258; to Campion Constr. Co., Inc., 776 Bway., Hart St., $19,580; to C. A. McManus, 93 Morris St., Leedale St., $17,349; and to M. F. Dollard, 36 State St., 2nd St., $121,854; Grand total $352,507. Noted June 16.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, to Carberry Block Corp., 186 Remsen St., bituminous macadam paving East 51st St. $9,656; to Castle Bros., Johnson Pl., grading, etc. Bedford Ave., $2,991, and East 12th St. $1,536, to C. R. Contg. Co., 2266 Gravesend Ave., Avenue U $1,039, to W. J. McHale Contg. Co., 1250 Jefferson Ave., East 8th St. $3,676, to F. De Vito & Co., 158 17th St., 16th Ave. $1,821, to M. A. Zappone, 1442 72nd St., 16th Ave. $3,894, and to G. M. Mandato, 201 Neck Rd., 72nd St. $3,787; to Highway Impvt. & Repair Co., Furmans Island, sheet asphalt paving Alabama Ave. $7,213, to Uvalde Asphalt Paving Co., 1 Bway., New York City, Brooklyn Ave. $8,895, Kingston Ave. $5,597, and Winthrop St. $5,091, to Cranford Co., 52 9th St., East 5th St. $8,973, and East 5th St. $10,074, to D. J. McCoy Asphalt Co., Avenue U and East 57th St., East 31st St. $16,140; and Flatlands Ave. $10,352, also to B. Turecamo, 8706 Bay 12th St., 77th St. $15,959, and 80th St. $9,607. Grand total $126,301. Noted June 23.

N. Y., Brooklyn—J. J. Byrne, pres., Brooklyn Boro, Boro Hall, sheet asphalt paving various streets, to Sicilian Asphalt Paving Co., 41 Park Row, New York City, $30,450; asphalt repaving Navy St. Park, to Highway Impvt. & Repair Co., Furmans

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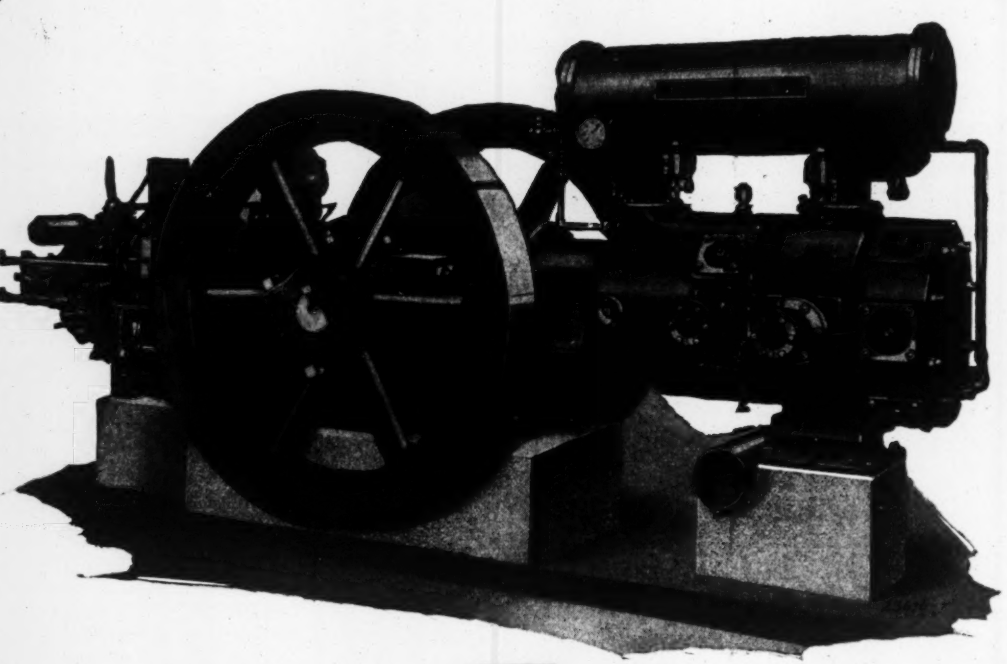

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Streets and Roads (Continued)

Island, $44,868; cement sidewalks on New Utrecht Ave., to F. Persicano, 350 Fulton St., $789; also grading and constructing culvert on Stillwell Ave., to B. Turecamo, 8706 Bay 12th St., $25,874. Grand total $101,981.

N. Y., New York—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading East 157th St., to F. Mascallo, 2550 Colden Ave., $2,770, and Burr Ave., to I. F. Cavaluzzo, 1300 Cromwell Ave., $13,176; grading and sheet asphalt paving Colden Ave. to Gaffney Constr. Co., Storey and Hermany Aves., $19,855, and in Taylor Ave., to Asphalt Constr. Co., 2197 Madison Ave., $116,558. Grand total $152,359. Noted July 7.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., sheet asphalt on concrete repaving Washington Pl. from Washington Sq. E. to Bway., to Uvalde Asphalt Paving Co., 1 Bway., $29,694. Noted July 7.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, granite block paving Richmond Terrace, to Colgan Contg. Co., 90 Williams St., New York City, $56,750; bituminous concrete paving Hannah St., and Forest Ave. etc., to J. Donovan Paving Co., 2205 Richmond Terrace, Port Richmond, $5,125 and $39,915 respectively. Grand total $101,790. Noted July 7.

N. Y., Syracuse—Bd. Contr. & Supply, City Hall, to Rago Bros., Union Bldg., paving Harold St. $15,130, Hood St. $30,963, and Kuhl Ave. $14,971; to G. Dickinson, Union Bldg., widening and resurfacing Montgomery St. $19,157. Grand total $80,221.

N. J., Elizabeth — Union Co., paving Michigan and Faltoute Aves., to Elizabeth Paving Co., 715 Elizabeth Ave., $91,601; and Martin St., Fanwood, to Weldon Contg. Co., Westfield, $8,918.

Pennsylvania—State Hy. Comn., Harrisburg **(A. means Application and R. Route)**, rein-concrete on bituminous treated macadam paving, etc. 8,000 sq.yd A.4710, Erie Co., to C. H. Fry Constr. Co., Erie, $47,772; rein.-con. paving, etc. 20,902 sq. yd. A.4568-69-70 and 71, Berks Co., to W. Sheidy, Wyomissing $105,668; bituminous treated surfacing 33,976 sq.yd. A.4285, Bucks Co., to J. M. Hutchinson, $91,689; constructing 1,127 ft. arch bridge on R. 105-5, Clinton Co., to Concrete Steel Bridge Co., Clarksburg, W. Va. $299,532; two 70 ft. through plate girder span bridge on R.20, Lycoming Co., to A. W. Hinaman, Williamsport, $43,268; and 133 ft. through steel truss bridge on R.19, Lycoming Co., to A. C. Bailey, Philipsburg, $31,486. Grand total $619,415. Noted June 9.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, relaying existing granite blocks on concrete (bituminous mastic filler) paving 4,484 ft. Broad St. between Noble and Stiles Sts., 69 ft.; and temporary repaving approximately 19,500 sq.yd. Broad St., between Filbert and Callowhill Sts., Broad Street Subway Contr. 169, to Union Paving Co., 30ht and Locust Sts., $172,155.

Del., Dover—Town Council, 26,069 ft. 8- to 24-in. vitr. sewerage system, to George & Lynch, Dover, $58,054. Noted May 19.

W. Va., Charleston—Kanawha Co., grading, etc., 3.9 mi. Point Creek Rd., to H. Miller, Madison, Wis., $35,060. Noted June 30.

W. Va., Logan—Island Creek Coal Co., A. R. Beisel, genl. mgr., concrete surfacing 7 mi. between Operations 21 and 22, 16 ft., to P. C. Minotti Constr. Co., Logan, $180,000.

W. Va., Pineville—Wyoming Co., grading, etc. road from Herndon to Mercer-Wyoming Co. line Rd., to Brown, Murphy & Wright Constr. Co., Princeton, $105,000.

Florida—State Road Dept., Tallahassee, improving Project 680, and Project 681, both Alternate 1, to Johnson, Drake & Piper, Natl. Soo Line Bldg., Minneapolis, Minn., $753,992 and $1,018,151 respectively; Projects 764 and 765, to F. W. Simpson, $50,665 and $27,663 respectively; Project 677-A, to Duval Eng. Co., Dyal Upchurch Bldg., Jacksonville, $80,589; Project 53-B, to W. J. Bryson. 239 West Adams St., Jacksonville, $87,665; Project 719, to C. G. Kershaw, $36,687 and Project 53-B, to Amer. Bridge Co., 30 Church St., New York City, $14,974. Grand total $2,070,386. Noted June 16.

Miss., Greenwood — Bd. Supervs. Le Flore Co., grading, curbing, paving, etc., 21,119 sq.yd. Federal Aid Project 195-A, to S. K. Jones Constr. Co., Cotton Exch. Bldg., Memphis, Tenn., $53,054. Noted June 9.

Miss., Ittabena—Grading, curbing, guttering and brick on concrete paving 10,500 sq.yd. various streets, to Merrell Eng. Co., Jackson, approximately $25,000. Noted June 16.

Miss., Vicksburg—Warren Co., rock asphalt surfacing, etc. 15, 315 sq.yd. National Cemetery Rd., to Merrill Constr. Co., Jackson, $42,947. Former contract rescinded. Noted Mar. 24.

La., Covington—St. Tammany Parish, grading and graveling 17 mi. District 2, Sub District 2, between Pearl River and Slidell, to Hoffman & Jones, Covington, $45,458.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, improving Project 78-B, Hamilton Co., to Jamison Bros., High Point, N. C. $103,260, Project 80-A, Davidson Co., to Pitts Bros., Mt. Pleasant $97,157, Project 211, Polk Co., to J. E. Pryor & Co., Covington $298,850, Project 212, McNairy Co., to Cresap Bros., Humboldt $99,715, Project 342-C and D, Houston Co., to Neal Constr. Co., Donelson $49,719, Project 354-A, Smith Co., to R. E. Martin, Ripley $151,505, Project 356-A, Hamilton Co., to Bender, Beckham & Crox, Chattanooga $39,689. Grand total $839,895. Noted June 16.

Tenn., Lebanon—Concrete paving 3 mi. various streets, to J. L. Humbard Constr. Co., Tennessee General Bldg., Knoxville, $129,718.. Engrs. est. $150,000.

O., Cleveland — Cuyahoga Co., curbing, guttering and vitr. brick paving 49,970 sq. yd. Prospect Rd., to N. Siegel, 1668 Eddington Rd., $104,431; also 35,200 sq.yd. East 200th St., to F. B. Stein, Euclid, $221,302.

O., Cleveland—Cuyahoga Co., paving, etc. East 131st St., and curbing, guttering, and lake asphalt paving Green Rd., to Highway Constr. Co., Guarantee Title Bldg., $45,446 and $188,111 respectively; also Amiesite repaving, North Woodland Rd., to Cleveland Trinidad Paving Co., Western Reserve Bldg., $50,607.

O., Jackson—R. W. Jenkins, clk. Jackson Co., grading and brick paving 0.586 mi. Vaughn, Huron and Bennett Sts., 20 ft., to I. J. Kuhner, Jackson, $28,269. Noted June 16.

O., Maple Heights (br. Cleveland)—Paving, etc. Dalewood, South, Stanley, Benhoff and Fernway Aves., to Enterprise Paving & Constr. Co., 8444 Bway., $86,740. Noted June 9.

O., Sebring—Asphalt on concrete paving etc. Ohio Ave., to General Asphalt Paving Co., Witters Bldg., Cleveland Ave., Canton, $84,096. Engrs. est. $85,000.

Michigan—State Hy. Dept., Lansing, 2 in. bituminous concrete paving 54,000 sq.yd. MO28-19, C. 1, T. L. 13-81, Grand Traverse Co., to W. B. Chalmers, 232 Ottawa St., Grand Rapids, $87,095.

Michigan—State Hy. Dept., Lansing, 2 in. bituminous concrete paving 65,000 sq.yd. MO83-14, C. 1, T. L. 13-82, Wexford Co., to W. B. Chalmers, 232 Ottawa St., Grand Rapids, $103,575.

Illinois—State Hy. Comn., Springfield, paving Route 8, Sect. 46 S, Knox Co., to Cameron-Joyce & Co., Keokuk, Ia., $31,569; and constructing bridge on Route 95, Sect. 119-B, McDonough Co., to H. C. Holmes, McComb, $18,927.

Ia., Albia—Monroe Co., to Dillarton & Elliott, Bussey, improving Primary Project 482, 81,290 cu.yd. excav. at $0.356 per cu.yd., 100 cu.yd. loose rock at $1.25, 100 cu.yd. solid rock at $2.50, 69,000 sta.yd. overhaul at $0.02, and 940 ft. culvert labor at $0.35.

Ia., Anamosa—Auditor Jone Co., 1,850 ft. guard rail, etc., on County Rd. System, to Connor & Lee, Hampton, at $0.23 per ft.

Ia., Centerville—Appanoose Co., improving 5.114 mi. Primary Project 496, 86,886 cu.yd. excav., 45,600 sq.yd. overhaul, etc., to Cameron-Joyce Constr. Co., Keokuk, $35,615, grading and 6 in. concrete paving, etc. 20,250 sq.yd. Primary Project 535 and 30,910 sq.yd. Primary Project 534, to Keokuk Quarry & Constr. Co., Keokuk, $55,060 and $132,575 respectively. Grand total $223,249.

Ia., Clinton—Clinton Co., to M. & S. Constr. Co., Sioux City, improving roads, 71,123 cu.yd. earth and channel excav. at $0.24 per cu.yd., 680 cu.yd. loose rock $1, and 1,365 cu.yd. solid rock $2.50. Noted June 16.

Ia., Dubuque—Grading 11.14 mi. U. S. Highway 61, to S. J. Groves & Sons Co., Globe Bldg., Minneapolis, Minn., $149,800.

Ia., Forest City—Winnebago Co., to Ehling & Snyder, Charles City, improving Project 397, 1,560 cu.yd. gravel 1 mi. haul, at $0.48 per cu.yd., 13,260 units ½ mi. haul $0.085, and 200 cu.yd. stripping $0.25; to A. N. Styve, Lake Mills, improving Project 120, 2,796 cu.yd. gravel material $0.15 and $0.205. 2,916 cu.yd. gravel 1 mi. haul $0.48, 27,300 units ½ mi. haul $0.085, and 400 cu.yd. stripping $0.25.

Ia., Iowa City—Grading, curbing, guttering and 6 in. concrete and 2½ in. brick on 6 in. concrete paving 17,950 sq.yd. various streets to Horrabin Contg. Co., Iowa City, $55,208. Noted June 30.

Ia., Mason City—Grading, curbing and rein.-con., 6,942 sq.yd. 15th and South Quincy Sts., to Wilson Constr. Co., Mason City, $18,051. Noted Mar. 24.

Ia., Mediapolis—Grading, curbing, guttering and paving 11,304 sq.yd. various streets, to Korneman Bros., Muscatine, $25,341. Noted June 9.

Ia., Nevada—Story Co., to Moore & Eldridge, Clemons, improving Secondary Dists. 37, 39, 47 and 50, 203,250 cu.yd. ½ mi. haul at $0.065 and $0.075 per cu.yd. 1,850 cu.yd. stripping at $0.20 and $0.25, 8,000 cu.yd. gravel complete $1.60 and $1.90.

Ia., Sioux City—Concrete paving 600 sq.yd. alley, to W. A. Klinger, 517 Warnock Bldg., at $2.28 sq.yd.; 5,830 sq.yd. 27th and Morgan Sts., to P. C. Hansen, 1422 Court St., $1.99 and $2.14; 13,820 sq.yd. South Coral, Glenn and South Glass Sts., to Booth & Olson, 318 Grain Exch. Bldg., $2.07 and $2.11; 3,900 sq.yd. 3 alleys, West Horn and Indiana Sts., to Harrington & Jorgensen, 3900-6th Ave., $1.96 to $2.07; and 4,570 sq.yd. 6th and 32nd Sts., to Jensen & Krage, 205 Metropolitan Bldg., $2.12 and $2.48.

Ia., Sioux City—Paving 29,197 sq.yd. Riverside Blvd., Riverside Dr., La Plante and Florence Aves., to Western Asphalt Paving Corp., 2100 East 4th St., at $2.18 per sq.yd. Noted July 7.

Minn., Carlton—Grading, macadam and crushed rock surfacing 1.5 mi. new road from Fond du Lac to Charlton, 30 ft., to C. R. McLean, 515 South 21st Ave. E., Duluth, $37,496.

Minn., Duluth — City Comrs., curbing, sidewalks and concrete paving 17,812 sq. yd. 57th Ave. W., to J. W. Salo Contg. Co., 1215 East 11th St., $53,253. Noted May 5.

Kan., Leavenworth — Leavenworth Co., grading, etc., 7.972 mi. Project 41-F, to A. A. Davis & Co., 1001 Commerce Trust Bldg., Kansas City, Mo., $67,960; also 8.097 mi. Sect. D and 0.962 mi. Sect. E, Project 1, to Lamoreaux Bros., 418 Peters Trust Bldg., Omaha, Neb., $66,511 and $5,202 respectively. Grand total $139,673.

Kan., Manhattan — Riley Co., to A. A. Davis & Co., 1001 Commerce Trust Bldg., Kansas City, Mo., concrete paving Federal Aid Project 327, 2.724 mi. Sect. C $58,900 3.79 mi. Sect. D $108,774 and 0.547 mi. Sect. E $14,908, also 4 bridges on same project Sect. D, to V. E. Almgren, Manhattan, $21,763. Grand total $204,345. Noted June 9.

Kan., Marion—Marion Co., grading and bridging, etc., Federal Aid Project 217-A, to R. K. Walters, $34,803.

Kan., Osborne—Osborne Co., grading, etc. 10.482 mi. Federal Aid Project 371-A, also 6 bridges on same project, to Hall-Hardman Constr. Co., Alton, $47,169 and $16,170 respectively. Noted June 9.

Neb., Gordon — Warrenite-bitulithic approximately 22,500 yd. paving Federal Aid Project 223-B Dist. 1, to Allied Contractors, Inc., 1803 Douglass St., Omaha, $57,187. Noted June 9.

Neb., Lindsay—P. Schad, city clk., grading, curbing, guttering 2½ or 3 in. brick on concrete, 6 or 7 in. concrete or vibrolithic concrete, asphaltic, concrete or bitulithic paving 12,200 sq.yd. Paving Dist. 1, to Booth & Olson, 318 Grain Exch. Bldg., Sioux City, Ia., $35,500.

N. D., Fargo—Concrete paving approximately 47,900 sq.yd. various streets in Paving Dist. 188-27, to S. Birch & Sons, 211 Front St., $161,187. Noted June 16.

Tex., Beaumont—Grading, curbing, guttering, 1 in. asphalt on 5 in. concrete paving 6 blocks Royal St., to Uvalde Rock Asphalt Co., Beaumont, $40,778.

Tex., Harlingen—Asphalt and hard paving 40,000 sq.yd. various streets, to F. P. McElwrath, Wichita Falls, approximately $60,000.

N. M., Clovis—Concrete and asphalt paving 84,750 yd. various business and residential streets, to New Mexico Constr. Co., Albuquerque, $248,000. Noted May 5.

Wash., Port Angeles—Guttering, grading and 33,152 lin.ft. sidewalk on Lincoln and 8th Sts., et al, to Gaul & Nylander, Shelton, $33,000.

Calif., Hawthorne—S. V. Fraser, city clk., grading and asphaltic concrete paving, etc. Wilbur Ave., to G. H. Oswald, 366 East 58th St., Los Angeles, $67,606. Noted July 7.

Calif., Inglewood—Improving Eucalyptus Ave., to J. L. McLain, 3452 West Slausson Ave., Los Anegeles, $37,045.

Calif., Richmond—A. C. Faris, city clk., to C. H. Brown, 220 South 12th St., improving Dunn and Rhemm Aves., etc., 104-988 sq.ft. 5 in. asphalt on 4 in. broken rock paving at $0.26 per sq.ft., 117,466 sq.ft. 4 in. asphalt on broken rock paving $0.22, etc., total $73,960. Noted June 30.

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Streets and Roads (Continued)

Calif., San Diego—Walks, concrete and asphaltic concrete paving, etc., Texas St., etc., to V. R. Dennis Constr. Co., 3843 Park Blvd., $139,789.

Ontario—Essex Co. (Leamington) grading and rein.-con. paving 2 mi. road from Leamington and Kingsville, 20 ft., to Cadwell Sand & Gravel Co., 228 Sandwich St. W., Windsor. Engrs. est. $45,000.

Ont., Bothwell—Grading, and asphaltic macadam paving 15,000 sq.yd. Main St., to Merlo, Merlo & Ray, Sandwich St., Ford. Engrs. est $50,000.

Ont., Toronto—Will grade and pave with sheet asphalt 16,000 sq.yd. new entrance to exhibition park, Strachan Ave., by day labor. $68,500. R. C. Harris, City Hall, engr.

British Columbia—Dept. Pub. Wks., Victoria, grading and gravel surfacing cut off road from Fraser River to Stave Falls, to General Constr. Co. Ltd., Vancouver Blk., Vancouver, $32,000; and bridge over Stave River, to Fraser River Pile Driving Co., 150 Front St., New Westminister, $23,000.

B. C., Prince Rupert — Minister Pub. Wks., Victoria, gravel surfacing, etc., 4.5 mi. Prince Rupert Highway, 14 ft., to Vancouver Pile Driving & Contg. Co., Dominion Bldg., Vancouver, $124,000. Noted June 16.

B. C., Vancouver — Asphaltic concrete paving 11 blocks street car track allowance and repairing existing side pavements on Broadway W., 16 ft., to General Constr. Co., 736 Granville St., $43,342. C. Brackenridge, City Hall, engr.

B. C., West Vancouver—Asphaltic concrete and asphaltic macadam paving 15,000 sq.yd. various streets, to Ellis-Cotton Co. Ltd., False Creek Yards, $45,000.

Buildings—Commercial

Proposed Work

Mass., Boston—FIRE STATION—Fire Dept. plans central fire station, Bulfinch and Cambridge Sts. $350,000. Engineer and architect not selected.

Mass., Boston — HOSPITAL — Coolidge, Shepley, Bulfinch & Abbott, archts., Ames Bldg., soon lets contract 11 story and basement, 45 x 150 ft., brick and steel, concrete foundation, Fruit St., for Massachusetts General Tospital, $1,000,000. Noted May 5.

R. I., Providence—GARAGE—J. Conn., c/o T. J. H. Pierce, Inc., archts., 30 Allens Ave., having plans prepared rein.-con., Chestnut and Broad Sts.

Conn., Bridgeport—GARAGE and REPAIR SHOP—Schnee & Schnee, 1115 Main St., had plans prepared by E. B. Caldwell, Jr., 886 Main St., 4 story, rein.-con., Middle St. $300,000.

Conn., Bridgeport — GARAGE and SHOWROOM — Packard-Bridgeport Motors, Inc., 170 Cannon St., plans 1 story, 100 x 225 ft., steel, tapestry brick and concrete, Fairfield Ave. $175,000. Engineer and architect not selected.

Conn., New Haven—HOTEL—Central Hotel Co., W. Lee, pres., 246 Meadow St., plans 12 story, brick and steel, Meadow and Congress Sts. To exceed $1,000,000. Engineer and architect not selected.

Conn., Stamford — APARTMENT — Owner, c/o G. F. Smith, 433 Main St., had plans prepared by W. Schmitz, 175 Greenwich Ave., 3 story, 70 x 80 ft., brick and steel, Prospect St. $175,000.

Conn., Stratford — TEMPLE — Masonic Temple Assn., Main St., having plans prepared by C. W. Walker, 1115 Main St., Bridgeport, 3 story and basement, brick, stone and steel, Main St. $150,000.

N. Y., New York—APARTMENT HOTEL —One Park Avenue Corp., 1 Park Ave., having plans prepared by Farrar & Watmough, 1 Park Ave., 15 story, 80 x 89 ft., brick and steel, plain foundation, 116-122 East 39th St. $500,000.

N. Y., New York—CLUB—Explorers Club, 47 West 76th St., having preliminary plans prepared by C. E. Birge, 29 West 34th St. 10 story and basement, 50 x 100 ft., brick, steel and stone, Cathedral Parkway. To exceed $500,000.

N. Y., Scarsdale—HOTEL—Equity Scarsdale Corp., 285 Madison Ave., New York City, having plans prepared by Jardine, Hill & Murdock, 347 Madison Ave., New York City, 4 story, brick, steel and stone, plain foundation, Crane Rd. and East Parkway, here $2,000,000.

N. J., Camden—HOSPITAL and NURSES' HOME — City plans addition. $500,000. Edwards & Green, 548 Federal St., archts.

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N. J., East Orange — APARTMENT — V. Altiere, c/o R. Bottelli, archt., 45 Branford Pl., Newark, having plans prepared, 4 story, 75 x 160 ft., brick and steel, plain foundation, Washington St. $150,000.

N. J., East Orange — APARTMENT — Feldman & Pivnick, Inc., c/o R. Bottelli, archt., 45 Branford Pl., Newark, having plans prepared, 4 story and basement, 60 x 140 ft., brick and steel, plain foundation, 240 North Grove St., here. $150,000.

N. J., Jersey City—BANK—C. H. Ziegler, archt., 75 Montgomery St., soon lets contract, general contract 1 story and basement, 35 x 100 ft., brick and steel, plain foundation, Jackson Ave., for Union Trust & Hudson Natl. Bank, 75 Montgomery St. $150,000. Noted May 5.

N. J., Newark—APARTMENT—M. Shapiro, c/o R. Bottelli, 45 Branford Pl., archt., having plans prepared 5 story, 100 x 120 ft., brick and steel, plain foundation, Elizabeth and Porter Aves. $150,000.

N. J., Newark—APARTMENT—A. Marcus, 261 Lehigh Ave., having plans prepared 4 story, 75 x 125 ft., brick and steel, plain foundation, 17-21 Elmwood Pl. $150,000. Private plans.

N. J., Perth Amboy—APARTMENT—D. Lerner, c/o N. Weletoff, archt., 3010 Hudson Blvd., Jersey City, having plans prepared 5 story, 75 x 100 ft., brick and steel, plain foundation, 88 Clifford Ave., here. $150,000.

Pa., Media—APARTMENT—H. Dreyman having plans prepared by J. C. Norton, Ardmore, 4 story and basement, 30 x 150 ft., brick and steel, plain foundation. $150,000.

Pa., Phila.—THEATRE—Lee and J. J. Shubert, 225 West 44th St., New York City, having plans prepared by H. J. Krupp, 2 West 47th St., New York City, 1 story, 105 x 142 ft., brick, stone and steel, plain foundation, Walnut and Quince Sts. $400,000. Noted June 16.

Pa., Phila. — APARTMENT — Rehfuss & North, archts., 1709 Sansom St., soon lets contract 6 story and basement, 46 x 172 ft., rein.-con., brick, steel and terra cotta, plain foundation, 54 North Chelton St., for T. B. J. Branagan, 2411 North Broad St. $250,000.

Pa., Phila. — GARAGE — E. A. Roth, archt., Drexel Bldg., soon lets contract 2 story and basement, 40 x 180 ft., rein.-con. and brick, plain foundation, 27-31 South 4th St., for A. Winegard, c/o architect.

Pa., Phila. — COMMERCIAL — Belber Realty Co., c/o L. Freedman, 251 South 15th St., plans 6 story and basement, 40 x 120 ft., rein.-con., brick and steel, plain foundation, 2016-18 Chestnut St. Engineer and architect not selected.

Va., Richmond — EXCHANGE — Chesapeake & Potomac Telephone Co., 709 East Grace St., plans expending $282,700, for system additions and improvements, incl. exchange building.

O., Akron—HOSPITAL—Good & Wagner, archts. and engrs., Mohawk Bldg., takes bids in fall, 8 story, 46 x 180 ft., brick, steel and stone surgical building addition, East Market St., for Trustees City Hospital. $800,000.

Ind. Indianapolis—APARTMENT,—T. D. Smith, 1209 Merchants Bank Bldg., takes bids about Aug. 1, 8 story nad basement, rein.-con. and brick, 16th and Pennsy Sts. $225,000. W. E. Russ, Meridian Life Bldg., archt.

Ill., East St. Louis—HOTEL and APARTMENT, etc.—C. E. Richardson et al., International Life Bldg., St. Louis, Mo., postponed indefinately construction 2 rein.-con., brick and terra cotta buildings one for hotel and apartment and other for stores and offices, 10th and State Sts. Noted Jan. 21, 1926.

Ia., Des Moines—HOSPITAL—Polk Co. having preliminary sketches made by Proudfoot, Rawson & Souers, Hubbell Bldg., hospital. $150,000.

Ia., Keokuk—HOSPITAL—Methodist Protestant Hospital Assn., M. C. Jackson, local surt., having plans prepard by M. J. Geise, Y.M.C.A. Bldg., Keokuk, 4 story and basement, 98 x 150 ft., rein-con. and brick hospital. $400,000.

Minn., Minneapolis—HOSPITAL—Estate Building Co., c/o W. Wolfson, 315 Girard Ave. S., having plans prepared by C. J. Bard, 838 Builders' Exch. Bldg., 12 story and basement, with 8 or 10 story tower, rein.-con., brick and terra cotta, 10th St. and 3rd Ave. S. $1,500,000.

Mo., Columbia—HOTEL and THEATRE —Tiger, Inc., c/o W. E. Smith, soon takes bids 9 story and basement, 82 x 142 ft., rein.-con., brick and stone, South 8th St., between Bway. and Cherry St. $500,000. A. H. Gentry, March Bldg., Kansas City, archt. archt.

Tex., Houston—WAREHOUSE—Texas Terminals, Inc., c/o J. R. Cheek, having plans prepared for 10 story, 250 x 500 ft., and 7 story, 50 x 250 ft., Main St. Viaduct. $3,600,000. Moores & Dunford, 110 East 42nd St., New York City, N. Y., engrs.

Tex., Houston—BANK and OFFICE—San Jacinto Trust Co. c/o G. Howard, pres., Humble Trust Bldg., soon takes bids 4 story (ultimately 23 story), 60 x 127 ft., rein.-con., stone and steel, Main and Lamar Sts. $200,000. J. W. Northrop, Jr., 615 Kirby Bldg., archt. H. M. Sanford, 2702 Eperson Bldg Engr. Noted July 7.

Tex., La Feria—HOTEL—P. G. Silber & Co., archts., 332 Bedell Bldg., San Antonio, soon take bids 1 story (ultimately 4 story) hotel, incl. theatre, dance and convention hall and swimming pool, near here, for F. Rabb. $200,000. Noted June 2.

Okla., Tulsa — HOTEL — J. C. Crosbie, Central Natl. Bank Bldg., having preliminary plans prepared 12 story and basement, 50 x 150 ft., rein.-con. and steel, plain foundation, 4th and Boston Sts. $400,000. Engineer and architect not selected.

Okla., Tulsa — STORE — D. Hunt, Sr., Kennedy Bldg., had plans prepared 11 story, 75 x 140 ft., rein.-con. and steel top addition, 4th St. $700,000. Engineer and architect not selected.

Wash., Vancouver—HOTEL—Tourtellotte & Hummel, archts., Failing Bldg., Portland, Ore., soon lets contract 5 story and basement, 75 x 100 ft., rein.-con. and terra cotta, plain foundation, 5th and Washington Sts., here, for Vancouver Community Hotel Co. $150,000.

Calif., Glendale—BANK and OFFICE—Dodd & Richards, archts., Brack-Shops Bldg., Los Angeles, preparing revised plans 6 story and basement, 50 x 150 ft., Brand Blvd. and Bway., here, for Pacific South-West Trust & Savings Bank. $250,000 or more. Former bids rejected. Noted Mar. 10.

Calif., Glendale — MASONIC — Glendale Masonic Building Assn. had plans prepared by A. G. Lindley, 410 Amer. Bank Bldg., Los Angeles, 8 story and basement, 64 x 125 ft., rein.-con., Brand Blvd. between Colorado and Harvard Sts. $200,000.

Calif., Los Angeles—OFFICE—Guardian Holding Co., Commercial Exch. Bldg., had preliminary plans prepared by K. Mcdonald, Jr., Spring Arcade Bldg., 13 story and basement, terra cotta and pressed brick, 218-24 South Bway. $750,000.

Calif., Mariposa—RECREATION CENTER—E. G. Lewis, c/o Roth & Parker, archts., 6363 Hollywood Blvd., Los Angeles, having preliminary plans prepared, community center, incl. two 50 x 100 ft. rein.-con. swimming pools, bath house, lockers, dance pavilion, women's clubrooms, etc., here. $200,000.

Calif., Pasadena—THEATRE and OFFICE—F. B. Cole, Los Angeles, having plans prepared by B. M. Priteca & B. Sonnickson, associated archt., 913 Pantages Theatre Bldg., 5 story, 110 x 170 ft. theatre, and, 90 x 116 ft. office section, rein.-con., Hudson St. and Colorado Ave. $500,000. Composition roofing, tile and marble work, etc.

Calif., San Francisco — STORE — I. Magnin Co., Geary St. at Grant Ave., having plans prepared by Bliss & Fairweather, Balboa Bldg., 8 story and basement, rein.-con., Geary St. and Grant Ave. $500,000.

Calif., San Jose — THEATRE and APARTMENT etc.—F. W. Holman, c/o W. F. Gunnison, archt., Shreve Bldg., San Francisco, having preliminary plans prepared 8 buildings, incl. theatre, apartment, garage, etc. all steel, concrete and brick veneer, Alameda and Race Sts. $500,000.

Calif., Santa Monica—HOTEL—H. J. Bordo, 1431 Ocean Ave., plans 13 story, rein.-con. hotel, 1431 Ocean Ave. To exceed $150,000. Engineer and architect not selected.

Que., Montreal—WARHHOUSE—Woodhouse & Co., 79 St. Catherine St. W., having plans prepared by Hutchison & Miller, 86 North Davis St. W., 87 ft. high, 128 x 144 ft., rein.-con. and brick, St. Urbain St. $255,000.

Ont., Toronto—APARTMENT HOTEL—Garden Apartments, c/o N. A. Armstrong & Co. Ltd., archts., 7 King St. E., having plans prepared 12 story and basement, 100 x 204 ft. rein.-con. brick, steel, stone, and tile, incl. stores, cafeteria, ball room, etc., plain foundation, Carlton and Sherbourne Sts. $1,500,000.

Ont., Toronto—APARTMENT HOTEL—Ramsay, Stewart & Co., Northern Ontario Bldg., soon takes bids "Queens Park Plaza," 15 story, 100 x 120 ft., rein.-con. brick and steel, plain foundation, Bloor St. and Avenue Rd. $2,000,000. H. G. Holman, Northern Ontario Bldg., archt. Noted Dec. 30.

Bids Desired

N. H., Laconia—ARMORY—Aug. 2, by Miliary Dept., State House, Concord, 2 story 85 x 144 ft., brick, steel and rein.-con.

Buildings—Commercial (Continued)

Union Ave. $150,000. W. M. Butterfield, 801 Beech St., Manchester, archt.

Mass., Boston—OFFICE—R. M. Dobbins, 209 Washington St., taking bids altering and constructing 4 story and basement, brick and stone addition, plain foundation, 360 Commonwealth Ave. $150,000. J. W. Beal Sons Co., 185 Devonshire St., archts.

Mass., Cambridge (br. Boston)—APARTMENT—G. E. Giles, Savings Bank Bldg., Central Sq., taking bids 3 story and basement, brick and stone, plain foundation, Bway. near Norfolk St. $150,000. D. T. Cormier, 15 Herbert St., Somerville, archt.

Mass., Chicopee—THEATRE, STORE and OFFICE—See "Contracts Awarded."

Minn., Breckenridge—COURT HOUSE—Aug. 8, by Wilkin Co., C. A. Steffes, aud., 2 story and basement, 72 x 108 ft., rein.-con., brick and stone, court house. $180,000. Buechner & Orth, 500 Shubert Bldg., St. Paul, archts.

Mass., Chicopee—THEATRE and OFFICE—See "Contracts Awarded."

Mass., Dorchester (Boston P. O.)—APARTMENT—See "Contracts Awarded."

Mass., Dorchester (sta. Boston)—HOSPITAL—Boston Home for Incurables, 2049 Dorchester Ave., taking bids 2 story and basement, brick, plain foundation, Dorchester Ave. corner Codham St. $250,000. Kendall, Taylor & Co., 142 Berkley St., Boston, archts. Noted Oct. 7.

Mass., Lexington—STORE and OFFICE—R. M. Aldrich, 60 State St., Boston, taking bids 3 story and basement, 60 x 120 ft., brick and stone, plain foundation, Massachusetts Ave. and Waltham St. $150,000. H. M. Aldrich, 21 School St., Boston, archts. Noted May 5.

Mass., Lynn—APARTMENT—See "Contracts Awarded."

Mass., Quincy (br. Boston) — APARTMENT—R. Guida, c/o R. M. Stowell, archt., 184 Boylston St., Boston, taking bids 3 story and basement, 9,000 sq.ft. floor space, brick, plain foundation, Fenno St. To exceed $150,000.

Mass., Roxbury, (Boston P. O.) — APARTMENTS—See "Contracts Awarded."

Conn., Bristol — APARTMENT — See "Contracts Awarded."

Conn., Hartford — TEMPLE — Labor Temple Assn., Inc., C. Hellyar, chn., taking bids 1 and 3 story, 44 x 100 ft., and 62 x 85 ft., brick and steel, Park St. $150,000. F. C. Walz, 407 Trumbull St., archt. Noted May 5.

Conn., Stamford—APARTMENT—Owner, c/o W. S. Schmitz, archt., 175 Greenwich Ave., taking bids 3 story, 80 x 108 ft., brick, steel and cast stone, Glenbrook Rd. $150,000.

N. Y., New York—HOSPITAL—Aug. 1, at office General Medical Superintendent, Bellevue and Allied Hospitals, 415 East 26th St., alterations and additions to Fordham Hospital, Southern Blvd. and Crotona Ave.

N. Y Oneonta—APARTMENT and STORE—Aug. 1, by M. A. Ross, c/o S. G. Puccio, engr., 13 Grand St., 3 story, brick and hollow tile, plain foundation, Main and Fairview Sts.

N. J., Elizabeth—J. F. Jackson, archt., 137 East 45th St., New York City, taking new bids 3 story, brick and steel, plain foundation, Madison Ave., for Y. M. C. A., 1164 East Jersey St. $250,000. Former bids rejected. Poggi & Bragdon, 275 Morris Ave., associated archts. Noted July 14.

N. J., Perth Amboy—PASSENGER STATION—Aug. 3, by New York Central R.R. Co., 466 Lexington Ave., New York City, F. B. Freeman, ch. engr., general contract 45 x 120 ft. east bound and 12 x 97 ft. west bound passenger stations, here.

N. J., Scotch Plains—HOSPITAL—Aug. 1, by Bd. Freeholders Union Co., Court House, Elizabeth, general contract 2 story and basement, 143 x 245 ft. infirmary, 1 story and basement, 40 x 90 ft. laundry and 2 story and basement, 56 x 80 ft. power house, brick and steel, plain foundation, County Hospital grounds, here. $200,000. Oakley & Son, 1259 Clinton Pl., Elizabeth, archts. Noted July 7.

Pa., Phila.—THEATRE—July 30, by Hodgens & Hill, archts., 150 South 15th St., 1 story, balcony and basement, 101 x 139 ft., rein.-con., brick and steel, plain foundation, 2806-14 North 5th St., for Fineman & Siltzer, c/o architects. $200,000.

Ind., Elkhart—LODGE—Aug. 1, by Moose Lodge, V. Roland, chn., taking bids 2 story and basement, brick and steel, clubhouse, $160,000. H. Miller, 531 Monger Bldg., archt.

Ill., Moline—HOSPITAL—Aug. 3 (extended date), by Hospital Bd., W. E. Taylor, pres., 4 story and basement, 43 x 80 ft., rein.-con., brick and stone addition, 7th St., for City. W. H. Schulze, 610 Peoples Bank Bldg., archt. Noted July 7.

Wis., Stevens Point—HOSPITAL—Aug. 25, by St. Marys Convent, Marshfield, and E. Brietmaier & Sons Co., archts., 1 Natl. Bank Bldg., Milwaukee, 4 story and basement, 60 bed, brick, steel and stone addition, plain foundation. $200,000. Noted Apr. 7.

Mo., Jefferson City—PRISON—See "Contracts Awarded."

Mo., St. Louis—MORGUE—Aug. 16, by Bd. Pub. Serv., 208 City Hall, 2 story and basement, 72 x 113 ft., rein.-con., brick and terra cotta, Clark Ave. $150,000. L. R. Bowen & H. Updike, engrs., and L. R. Bowen & A. Osborn, archts., all 301 City Hall. Noted Mar. 24.

Calif., Sacramento — CAPITOL — State Dept. Pub. Wks., taking bids completing state capitol buildings. $250,000. Weeks & Day, Fniancial Center Bldg., San Francisco, archts. Noted July 14.

Ont., Toronto — APARTMENT — See "Contracts Awarded."

Ont., Toronto—HOSPITAL—Aug. 4, by I. H. Harris, chn. and R. O. Darling, acting secy. Toronto East General Hospital, 2780 Danforth Ave., 3 story and basement, rein.-con., brick and steel, plain foundation, Coxwell Ave. $250,000. J. J. Woolnough, City Hall, archt. Noted July 14.

Ont., Ottawa—HOSPITAL—Aug. 2, by Noffke, Morin & Sylvester, archts., Central Chambers, hospital, Water St., for Ottawa General Hospital. $400,000.

Contracts Awarded

Me., Calais—THEATRE—J. Unobskey & Son, c/o Blackall, Clapp & Whitemore, archts., 31 West St., Boston, 1 story and basement, brick and steel, plain foundation, to R. Walker, Calais. Archts. est. $150,000.

Me., Houlton—COURTHOUSE—Aroostock Co., W. Clark, clk., 2 story and basement, rein.-con., brick and stone, plain foundation, to N. W. Downing, Presque Isle. Archts. est. $150,000. Noted May 12.

Mass., Boston—MERCANTILE—R. M. Bradley & Co., 84 State St., reconstructing, etc., 5 story and basement, 75 x 150 ft., brick and steel, plain foundation, 103-105 State St., to F. B. Curry, 75 East Dedham St. Archts. est. $150,000.

Mass., Boston—STORE and OFFICE—A. F. Goodwin, Hamilton, altering and constructing, 6 story and basement, brick and stone addition, plain foundation, 380 Boylston St., to Joslin & Landry, 107 Massachusetts Ave. Archts. est. $150,000 or more.

Mass., Cambridge (Boston, P.O.)—BANK—Cambridge Trust Co., Harvard Sq., altering and constructing 1 story and basement addition, to E. A. Abbott Co., 3 Park St., Boston. Archts. est. $150,000. Noted June 30.

Mass., Chicopee—THEATRE, STORE and OFFICE—Wernick Bros., 108 Main St., will build 2 story and basement, 65 x 150 ft., brick and steel, plain foundation, Bway. $200,000. Work will be done by separate contracts. G. P. B. Alderman & Co., 316 High St., Holyoke, archts. Noted Apr. 7.

Mass., Dorchester (Boston P. O.)—APARTMENT—J. Sorkin, 63 Moreland St., Roxbury, will build (5 unit) 3 story and basement, brick and stone, plain foundation, Savin Hill Ave. and Francis Park, here. $155,000. Work will be done by separate contracts. Private plans.

Mass., Lynn—APARTMENT — Nason Constr. Co., Orchard Pl., will build 4 story and basement, brick and stone, plain foundation, Lincoln St. $150,000. Work will be done by separate contracts. Private plans.

Mass., Northampton—WARD—Commonwealth of Massachusetts Dept. Mental Diseases, State House, Boston, superstructure for 3 story and basement ward building at State Hospital, here, to D. A. Sullivan & Son, 78 Main St., Northampton, $111,105. heating and ventilating, to R. H. Baker Co., 238 Main St., Cambridge, $21,332. Noted June 9.

Mass., Roxbury (Boston P. O.)—APARTMENTS—Almont Realty Trust, J. Levine, trustee, 1451 Blue Hill Ave., Mattapan, will build two 3 story and basement units, brick and stone, plain foundation, 39-45 Cheney St., here. $160,000. Work will be done by separate contracts. S. E. Moffie, 51 Cornhill, Boston, archt.

R. I., Cranston (mail Providence)—DORMITORY—State, Pub. Welfare Dept., State House, Providence, 2 story and basement, brick and steel dormitory for women at State Hospital for Insane, here, to A. F. Smiley Constr. Co., 210 Oak Hill Bldg., Pawtucket. $200,000. Noted July 14.

Conn., Bristol — APARTMENT — S. Josolowitz, 50 Grove St., will build 3 story, 68 x 140 ft., brick, steel and stone, Main St., by day labor. $150,000. Private plans. Noted May 19.

N. Y., Buffalo—PASSENGER STATION—New York Central R.R. Co., 466 Lexington Ave., New York City, F. B. Freeman, ch. engr., passenger station, Curtis St. and Polonia Park, here, to Walsh Constr. Co., 403 Herald St., Syracuse. Archts. est. $12,000,000. Noted June 23.

N. Y., Laurelton (mail Jamaica)—EXCHANGE—New York Telephone Co., 15 Dey St., New York City, 2 story and basement, 75 x 100 ft., rein.-con., concrete foundation, here, to White Constr. Co., 95 Madison Ave., New York City. Archts. est. $200,000.

N. Y., Long Island City—WAREHOUSE—Bloomingdale Bros., Inc., 59th St. and Lexington Ave., New York City, general contract 7 story, 190 x 143 ft., rein.-con., concrete pile foundation, here, to Turner Constr. Co., 420 Lexington Ave., New York City, Archts. est. $1,500,000. Noted June 9.

N. Y., New York—PROFESSIONAL—Philsin Realty Corp., 247 Park Ave., 16 story, 75 x 125 ft., brick and steel, 1014 6th Ave. and 57 West 57th St., to Dwight P. Robinson & Co., Inc., 125 East 46th St. Archts. est. $1,500,000.

N. Y., New York—APARTMENT—G. & F. Impvt. Corp., 1281 Boscobel Ave., will build 6 story and basement, 80 x 123 ft., brick and steel, plain foundation, Jerome Ave. and 166th St. $250,000. Work will be done by separate contracts. C. S. Clark, 443 East Tremont Ave., archt.

N. Y., New York—APARTMENT—I. Polstein, 285 Madison Ave., will build 15 story and basement, 16,000 sq.ft. floor space, brick, steel and stone, plain foundation, West End Ave. and 83rd St. To exceed $750,000. Work will be done by separate contracts. G. F. Pelham, 570-7th Ave., archt.

N. J., New Brunswick—BANK, OFFICE and STORE—H. G. Bach, 63 Schureman St., and M. H. Boylan, 143 Albany St., associated archts., general contract 4 story, 40 x 150 brick and steel, plain foundation, George and Bayard Sts., to T. H. Flynn, 390 George St., for Citizens Nat. Bank, 362 George St. $150,000. Noted June 30.

Pa., Phila.,—WAREHOUSE—U. S. Gypsum Co., 300 West Adams Ave., Chicago, Ill. (1st unit), 1 story, 60 x 200 ft., rein.-con. brick and steel, wood pile foundation, 58th St. and Schuylkill River, to Metzger, Fisher & White, Otis Bldg.

Pa., Phila. — APARTMENT — J. R. K. Scott, Land Title Bldg., 3 story and basement, 125 x 175 ft., brick and steel, plain foundation, Eagle Hill Rd. and Old Lancaster Pike, to A. L. Frezt, Heed Bldg.

Pa., Phila.—STORAGE—Malce Storage Co., 237 Church Lane, 7 story and basement, 75 x 120 ft., rein.-con. and brick, plain foundation, here, to George Kessler Constr. Co., 1733 North Mervine St. Archts. est. $300,000.

Pa., Phila.—ADMINISTRATION—Dept. City Transit, W. E. Ehler, dir., altering and constructing superstructure 2 story, 40 x 209 ft., Broad and Grange Sts., Broad St. Subway Constr. 170, to Nelson-Pedley Co., Corn Exch. Bldg. $180,075. Noted July 7.

Pa., Pittsburgh—BANK—Monongahela Natl. Bank, 6th and Wood Sts., 5 story and basement, triangular shaped, brick, steel and stone, Wood St., Liberty and 6th Ave., to Schultz Schreiner & Clyde, May Bldg. Archts. est. $500,000. Noted June 16.

Pa., Reading—Pennsylvania R.R. Co., Broad St. Sta., Phila., 3 story and basement, 95 x 171 ft., rein.-con., brick and steel Y.M.C.A. building, 6th and Olney Sts., to C. H. Schlegel, Reading. Noted Apr. 28.

Wis., Milwaukee — WAREHOUSE — Tewels Seed Co., 152 Hanover St., general contract 7 story and basement, 75 x 100 ft., rein.-con., plain and wood pile foundation, Hanover St., to S. M. Siesel Co., 160 Ogden Ave. Noted Sept. 30.

Minn., Minneapolis — OFFICE, STORE and GARAGE—La Salle Realty Co., S. T. McKnight, pres., 1236 McKnight Bldg., pres., general contract 3 story and basement, rein.-con., granite and stone, 5th St. and 2nd Ave. S., to C. F. Haglin & Sons, 920 Natl. Bldg. Archts. total est. $250,000. Noted May 26.

Mo., Jefferson City — PRISON — State Penal Bd., T. F. Enloe, chn., will build 4 story, 56 x 183 ft., rein.-con. prison with chrome steel watch tower on penitentiary grounds, by convict labor. $500,000. Kennerly & Stiegemeyer, 1111 Title Guaranty Bldg., St. Louis, archts. Noted June 16.

Mo., St. Louis—POLICE HEADQUARTERS—Metropolitan Police Dept., c/o A. C. Orrick, pres., 208 South 12th St. Blvd., superstructure 5 story and basement, 138 x 218 ft., rein.-con., brick and stone, 12th St. and Clark Ave., to L. B. Kenton Constr. Co., Wainwright Bldg., $353,100. Noted June 16.

Tex., Temple—HOTEL—Owner, c/o Love Constr. Co., (contractor) Temple, will build 9 story and basement, 80 x 110 ft. hotel, 4th and Central Sts. $250,000.

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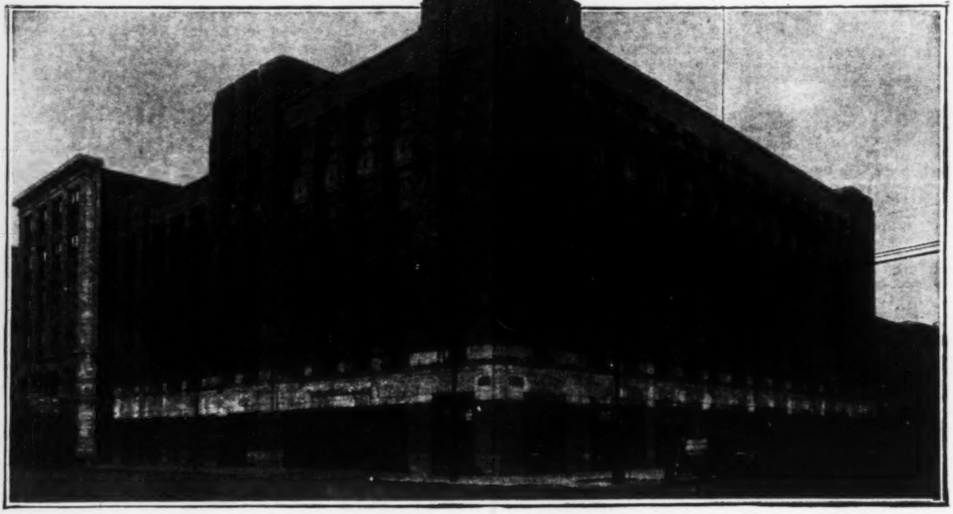

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Buildings—Commercial (Continued)

Wash., Seattle—APARTMENT — Exeter Co., Skinner Bldg., 14 story and basement, 120 x 120 ft., rein.-con., brick and terra cotta, 8th and Seneca Sts., to H. F. Allan, Green Bldg. Archts. est. $1,000,000. Noted Mar. 24.

Calif., Los Angeles—APARTMENT—T. H. Miller, 707 Financial Center Bldg., 8 story, 98 x 170 ft., rein.-con., 1525 North Van Ness Ave., to States Constr. Co., 707 Financial Center Bldg., $400,000.

Calif., Los Angeles—HOSPITAL—Pacific Hospital Assn., 1329 South Grand Ave., 6 story and basement, 122 x 150 ft., rein.-con., Alvarado St. between Temple St. and Bellvue Ave., to Bavin & Burch Co., 173 East Jefferson St. Archts. est. to exceed $150,000.

Calif., Los Angeles—HOTEL—Embassy Holding Corp., 13 story and basement, 50 x 145 ft., rein.-con., 960 West 6th St., to A. Bard & Co., Pacific Natl. Bank Bldg., $500,000.

Calif., Palm Springs — HOTEL — Palm Springs Hotel Co., 2 story with 60 ft. observation tower, brick or concrete, Indian Ave., to Orndorff Constr. Co., 247 North Western Ave., Los Angeles, $550,000.

Calif., San Francisco—HOTEL—J. Bessette, c/o P. Righetti, archt., 12 Geary St., will build 5 story and basement, steel and concrete, Valencia and 15th Sts., by day labor, under supervision architect.

Ont., Toronto — APARTMENT — J. T. Ransome & Co., Metropolitan Bldg., will build 3 story and basement, brick, tile, cut stone and steel, plain foundation, Yonge St. and Farnham Ave., by day labor. $500,000. Private plans.

Buildings—Industrial

Proposed Work

N. H., Manchester—FACTORY—Golden Rule Shoe Co., Lynn, Mass., plans factory, here. To exceed $50,000. Engineer and architect not selected.

N. J., Camden—SILK PLANT—Furness Corp., W. H. Furness, pres., National Park, c/o West Jersey Guarantee & Title Co., 304 Market St., plans artificial silk plant, near here. $10,000,000. Engineer and architect not selected.

N. J., Hillside (mail Elizabeth)—FACTORY—Breen Iron Wks., 276 Badger Ave., Newark, having plans prepared 1 story, 60 x 200 ft., brick and steel, plain foundation, here. $40,000. Private plans.

N. J., Perth Amboy—BEVERAGE and ICE PLANT — G. M. Ricci, archt., 224 Smith St., soon lets contract 3 story, 65 x 80 ft., brick and steel, plain foundation for Owner, c/o architect. $60,000.

N. J., Perth Amboy—FACTORY—Garcia Grande Cigar Co., c/o B. Goldberger, archt., 117 Smith St., having plans prepared 1 story, 50 x 100 ft., brick and steel, plain foundation, Cortlandt St. $40,000.

Md., Baltimore—NEWSPAPER PLANT—Palmer, Willis & Lamdin, archts., 513 North Charles St., soon lets contract remodeling 4 story brick and tile plant 9 and 11 West Baltimore St. and 6 West Redwood St., for Baltimore Sun, Charles and Baltimore Sts.

O., Cleveland—FACTORY—H. M. Morse & Co., archts., Finance Bldg., soon lets contract 4 story, 66 x 121 ft., and 80 x 100 ft., brick, steel and concrete buildings, Foster Ave., for Marble & Shattuck Chair Co., T. W. Foote, mgr.-treas., 10200 Foster Ave. $175,000.

O., Cleveland—FACTORY—Widlar Co., C. W. Brand, pres., 722 Bolivar Rd., had plans prepared by H. E. Shimmin, Bulkley Bldg., 1 story, 80 x 156 ft., brick and steel, Berea Rd. $60,000.

O., Cleveland—FREIGHT WAREHOUSE—Pennsylvania R. R., T. J. Skillman, ch. engr., Broad St. Station, Phila., Pa., soon lets contract 1 story 148 x 282 ft., and 2 story, 39 x 148 ft. buildings. East 26th St. and Hamilton Ave., here. $150,000. Private plans.

O., Columbus—FACTORY—Dean & Barry Co., 296 North Water St., having plans prepared by C. Hibbs, Worthington, 4 story and basement, 50 x 100 ft., brick and concrete, North Water St. $61,000.

Tex., Houston—PUBLISHING PLANT—Houston Press Publishing Co., soon lets contract 5 story, 150 x 220 ft. plant, Chartres St. $300,000. Howell & Thomas, 3866 Carnegie St., Cleveland, O., archts. Swank & Fisher, 403 Euclid Ave., Cleveland, O., engrs. Noted July 6.

Tex., Shamrock—ICE PLANT—Central Power & Light Co., c/o Frost Bldg., San Antonio, purchased site and plans 50 ton ice plant, brick and concrete. $50,000. Private plans.

Okla., Boise City—ICE PLANT—City having preliminary plans prepared new 10 ton ice plant and 200 hp. Diesel engine and generator. C. Margo, city clk. Engineer not announced.

Calif., Los Angeles—FACTORY—W. E. Chadwick, archts., 417 Union League Bldg., preparing preliminary plans 2 story, 100 x 190 ft., rein.-con., Maple Ave. near Jefferson St. $75,000. Owner's name withheld.

Calif., Venice — LAUNDRY — Fellows Laundry of Venice plans 2 story, 100 x 225 ft., rein.-con. addition, 2334 Washington Blvd. $100,000. Engineer and architect not selected.

Ont., Oshawa—PAINT SHOP—General Motors Co. of Canada soon takes bids, 3 story, 60 x 300 ft., paint shop, rein.-con. brick and steel. $200,000. Hutton & Sauter, 6 James St. S., Hamilton, archts.

Ont., Toronto—DAIRY PLANT—S. Caulfield & Son, 381 Roncesvalles Ave., having plans prepared by J. Hunt Stanford & Son, 57 Queen St. W., 2 or 3 story and basement, rein.-con., brick, tile and steel, plain foundation, Howard Park Ave. $150,000.

Bids Desired

Mass., Cambridge (Boston P. O.)—FACTORY—See "Contracts Awarded."

Mass., Marlboro — CIDER MILL and FRUIT CANNING FACTORY—J. E. Rice, Main St., taking bids 1 story, rein.-con. and brick, plain foundation, Northboro Rd. $40,000. J. F. Bigelow, 64 Highland St., archt.

N. J., Newark — FACTORY, etc. — A. Peter, archt., 207 Market St., taking bids 1 story, 40 x 130 ft., brick and steel, factory and office, plain foundation, 320-4 Jefferson St., for J. Morin & Co., Inc., 320 Jefferson St. $40,000.

Pa., Phila.—FACTORY—Aug. 2, by Ballinger Co., archts., 12th and Chestnut Sts., 5 story and basement, 90 x 131 ft., rein.-con. and brick, plain foundation, 417-28 North 8th St., for Brown & Bailey, 410 Franklin St.

O., Crooksville—POTTERY—Aug. 1, by Directors Crooksville China Co., 1 story, 30 x 100 ft. brick addition, incl. experimental laboratory. $40,000.

Ind., Anderson—RAILROAD SHOPS, etc.—July 31, by Cleveland, Cincinnati, Chicago & St. Louis Ry. Co., 230 East 9th St., Cincinnati, O. H. Baldwin, ch. engr., 112 x 205 ft. shop building, 16 stall round house, two 40 x 60 ft. office buildings and 110 ft. turntable, here. Noted May 19 under "Railways."

Neb., Louisville—CEMENT PLANT—See "Contracts Awarded."

Ont., Toronto—SUB-STATION—Aug. 4, by P. W. Ellis, chn. Toronto Electric Commissioners, 12 Adelaide St. E., for concrete, brick and steel, 40 ft. high, John St. Private plans.

Contracts Awarded

Mass., Cambridge (Boston P. O.)—FACTORY—Owner c/o C. Neilson, 27 Western Ave., will build 4 story, 50 x 50 x 58 ft. brick, plain foundation, Dickinson St., $40,000. Work will be done by separate contracts. Private plans. Noted Mar. 24.

N. J., Union City — SILK FACTORY — Schwarzenbach Huber, Inc., 511 23rd St., general contract 3 story and basement, 70 x 90 ft., brick, steel and rein.-con., plain foundation, to Wegton-Abbott Corp., 552 West 23rd St., New York City; reinforcing steel, to J. Ryerson, 30 Church St., New York City. Archts. est. $75,000. Noted June 23.

Pa., Phila.—MANUFACTURING—Hall Bros. & Wood, 54th and Lancaster Sts., 3 story and basement, 113 x 117 ft., brick and steel, plain foundation, to J. N. Gill Constr. Co., 112 North Broad St. Archts. est. $80,000.

W. Va., Charleston—POWER HOUSE—Carbon & Carbide Chemicals Corp., South Charleston, power house, incl. concrete stack, intake and pump house, tanks, etc., to Stone & Webster, 4 Milk St., Boston, Mass. Archts. est. $500,000.

O., Galion—FACTORY—Galion Metallic Grave Vault Co., 1 story, 150 x 600 ft., brick and steel, to W. J. Schirmer Co., 1720 Euclid Ave., Cleveland. Archts. est. $100,000.

O., Jackson—REPAIR GARAGE—Wick Bros., 1 story and basement, 50 x 86 ft., brick and concrete, to O. B. Hankie, Jackson, approximately $40,000.

Mich., Pontiac—FACTORY —Yellow Truck & Coach Mfg. Co., General Motors Bldg., Detroit, 1 story, 160 x 600 ft. assembly plant, 1 story, 60 x 600 ft. drykilns, 3 story, 50 x 341 ft. warehouse and body shop, also detached heating plant, all rein.-con., brick and steel, plain foundations, South Blvd., to J. A. Utley, 729 Penobscot Bldg., Detroit. Archts. est. $8,000,000.

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Buildings—Industrial (Continued)

Ia., Waterloo — TRACTOR PLANT — John Deere Tractor Co., 1 story, 120 x 300 ft., concrete, brick and steel, Miles and Commercial Sts., to J. Olesen & Sons Constr. Co., 1522 Lafayette St., Waterloo; steel, to Rochester Bridge Co., Rochester, Ind. Archts. est. $60,000. Noted June 9.

Neb., Louisville—CEMENT PLANT—Ash Grove Cement Co., Grand Ave. Temple, Kansas City, Mo., will build cement plant, incl. water and sewerage system, and residential district, here, by day labor. $2,000,000.

Mo., Kansas City — MILL — Southard Feed & Milling Co., New England Bldg., general contract 5 story and basement, 56 x 56 ft., rein.-con., 7101 East 17th St., to Industrial Eng. Co., 520 Kansas City Life Bldg.

Calif., Los Angeles—FACTORY—B. F. Goodrich Rubber Co., South Main St., Akron, O., 5 story, 250 x 1,200 ft., brick and rein.-con. main factory, in addition to power house, engine buildings, garages, etc., Mines Ave., here, to Foundation Co., 120 Liberty St., New York City, approximately $5,000,000.

Buildings—Educational, Religious

Proposed Work

Mass., Everett (br. Boston)—SCHOOL—Our Lady of Grace Church, T. J. Walsh, pastor, 56 Nichols St., soon takes bids 2 story and basement, brick and stone, plain foundation, 190 Nichols St. Archts. est. $150,000. M. Sullivan, 80 Boylston St., Boston, archt. Noted Dec. 30.

Conn., West Hartford (br. Hartford)—SEMINARY—St. Thomas Seminary, M. F. McAuliffe, pastor, had plans prepared by L. A. Walsh, 51 Leavenworth St., Waterbury, 3 story and basement, 60 x 480 ft., and two 40 x 160 ft. wings, rein.-con., brick, steel, granite and limestone, Bloomfield Rd., incl. laboratory, dormitories, chapel and central heating plant. $1,000,000. Noted Jan. 20.

N. Y., Lockport—CHURCH—First Methodist Church, H. E. Brees, chn. building com., 22 Main St., had plans prepared by Foote & Carpenter, Temple Bldg., Rochester, 2 story and basement, brick and steel, plain foundation, East Ave. and Washburn St. $175,000.

N. J., Jersey City—NURSES' HOME—City having plans prepared 3 story, brick and steel, plain foundation, Laurel Hill. $150,000. F. J. Radigan, 30 Journal Sq., engr. Steam heating, etc.

N. J., Jersey City—SCHOOL—Bd. Educ., State Bldg., Trenton, soon takes bids general contract, 2 story, steel and brick addition, plain foundation, Culver Ave. and Hudson Blvd., here $550,000. Guilbert & Betell · 24 Branford Pl., Newark, archt. Noted Apr. 14.

Va., Richmond—ORPHANAGE—Sisters of Charity of St. Josephs Academy & Orphan Asylum, having plans prepared by Carneal & Johnston, Electric Bldg., Richmond, orphanage, Brook Rd. $450,000.

Miss., Corinth — SCHOOLS — Corinth Separate School Dist. Bd., W. T. Young, secy., having plans prepared by J. P. Roberts, 1st Natl. Bank Bldg., Mobile, Ala., two 1 story school buildings, one 145 x 190 ft., both brick and concrete. $150,000 bonds voted for same. Noted Apr. 7.

Ky., Ashland—SCHOOL—Bd. Educ. having plans prepared by Warner & McCornack, Bulkley Bldg., Cleveland, O., 2 story, concrete brick and steel school. $150,000.

Ky., Lexington — RECITATION — University of Kentucky having plans prepared by F. C. Warner & W. R. McCornack, Bulkley Bldg., Cleveland, O., 3 story and basement, concrete, brick and steel recitation building. $250,000.

Calif., Los Angeles — UNIVERSITY — University of California having plans prepared by Allison & Allison, Hibernian Bldg., part 2 and 3 story, steel and rein.-con., Westwood Campus. $1,200,000. Noted July 14.

Bids Desired

Me., Orono — AGRICULTURAL — University of Maine, F. S. Young, taking bids 2 story and basement, brick addition, plain foundation. $165,000. Crowell & Lancaster, Exchange Bldg., Bangor, archts.

Mass., Fall River — SCHOOL — City Schoolhouse Dept., City Hall, taking bids 2 story and basement, brick and stone, plain foundation, Dwelly, Slade and Lewis Sts. $150,000. J. I. Higgins, 44 Borden Blk., archt. Noted Dec. 2.

Mass., Hyde Park (br. Boston)—HIGH SCHOOL—Aug. 4, by Schoolhouse Dept., Boston, 3 story and basement irregular shaped brick and limestone, plain foundation, Greenwood St., here. $1,200,000. McLaughlin & Burr, 88 Tremont St., Boston, archts. Noted May 26.

Mass., Newton (br. Boston)—SCHOOL—City, c/o E. O. Childs, mayor, taking bids 2 story and basement, irregular size, brick, plain foundation, Waverly Ave. and Ward St., Chestnut Hill Sect. $150,000 or more. J R. Ritchie & associates, 250 Stuart St., Boston, archts. Noted June 2.

Mass., Rockland—HIGH SCHOOL—Town, c/o P. Mulvihill, secy. building comn., Senior High School, taking bids 3 story and basement, brick and stone, plain foundation, Memorial Park. $350,000. W. Beal & Sons Co., 185 Devonshire St., Boston, archts. Noted July 14.

Mass., Williamstown — DORMITORY—Aug. 5, by Cram & Ferguson, archts., 248 Boylston St., Boston, 3 story and basement, brick, plain foundation, for Williams College, Inc., H. A. Garfield, pres.

R. I., Providence—PAROCHIAL SCHOOL—St. Patricks Roman Catholic Church, M. F. Reddy, pastor, taking bids 2 story, 135 x 145 ft., brick and stone, plain foundation, Smith and Coverlet Sts. $175,000. J. F. Hagen, Grosvenor Bldg., archt.

R. I., Providence—SCHOOL—Aug. 1 by City, Pub. Building Dept., 2 story and basement, 70 x 80 ft., brick, steel and concrete, Bridgeman St. $150,000. T. J. H. Pierce, City Hall, archt.

R. I., Warren—HIGH SCHOOL—Aug. 1, by Town. G. H. DeWolf, chn., 2 story and basement, brick and steel, South Main St. $150,000. E. M. Corbett, 70 Bedford St., Fall River, archt. Noted June 9.

Conn., Wallingford—INFIRMARY—See "Contracts Awarded."

N. Y., New York—SCHOOL—Aug. 9, by W. H. Gompert, Supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, general contract P. S. 90, Sheridan and Sherman Aves., East 166th and McClellan Sts., here, for Bd. Educ., 500 Park Ave.,

N. J., Montclair—DORMITORY—Aug. 9, by State Bd. Educ., Trenton, 2 story and basement, brick and steel, plain foundation, at Glassboro State Normal School, here. $150,000. Gilbert & Betelle, 20 Branford Pl., Newark, archts. Noted Apr. 14.

N. J., Perth Amboy—SCHOOL—G. M. Ricci, archt., 224 Smith St., taking bids 2 story and basement 85 x 200 ft., brick and steel, plain foundation, Cortland St., for Our Lady of Hungary, 687 Cortland St. $150,000. Noted June 30.

N. J., Totowa (mail Paterson)—DORMITORIES—Aug. 12, by Bd. Institutions & Agencies, State House, Trenton, four 1 and 2 story dormitories at training school for Feeble Minded Females. here. $400,000. C. N. Leathem, Jr., State Bldg., Trenton, engr.

O., Bellevue—HIGH SCHOOL—Aug. 1, by Bd. Educ., for Central High School, brick, steel and concrete. $300,000. H. C. Millott, Sandusky, archt.

Ind., Indianapolis—INSTITUTION—Aug. 3, by Indiana Blind School, 75th St. and College Ave., administration building, 3 dormitories, industrial building and commissary, rein.-con., brick and steel; also water tower, 75th St. and College Ave. $400,000. Harrison & Turnock, 500 Bd. of Trade Bldg., archts. Noted Nov. 11.

Mich., Detroit—SCHOOL—Aug. 3, by Bd. Educ., c/o C. A. Gadd, bus. mgr., 1354 Bway. Ave., 3 story and basement, 114 x 140 ft., rein.-con., brick and steel, plain foundation, Wyoming and West Point Aves. $350,000. Smith, Hinchman & Grylls, 800 Marquette Bldg., archts. Noted May 19.

Mich., Flint—HIGH SCHOOL—Aug. 4, by H. L. Hills, bus. mgr. Bd. Educ., 908 F. P. Smith Bldg., 3 story, brick, steel and rein.-con., Chevrolet Ave. $400,000. Malcolmson & Higginbotham, 904 F. P. Smith Bldg., archts.

Contracts Awarded

Mass., Worcester—PARISH HOUSE—St. Mark's Church, 3 story and basement, brick, plain foundation, Freeland and Main Sts., to Smith & Chevillier, 400 Lake St. Archts est. $150,000. Noted Feb. 17.

R. I., Providence — CHURCH — Swedish Evangelical Gloria Dei Church, K. Johannson, pastor, 14 Hayes St., 1 story and basement, brick and stone, plain foundation, to C. B. Maguire Co., Grosvenor Bldg. Archts. est. $150,000 or more. Noted June 30.

R. I., Providence — DORMITORY and CLASS ROOM — House Good Shepherd, Sister Mary Frances, 3 and 4 story, 100 x 145 ft., brick and steel, Eaton St., to E. Turgeon, 36 Exchange St. Archts. est. $200,000. Noted June 16.

Conn., Hartford—SCHOOL—City, H. U. Tuttle, chn., 3 story, brick and steel, incl. gymnasium, Vine St., to Curtis & Dean, 721 Main St., Hartford, $275,247. Noted June 7.

Conn., Wallingford — INFIRMARY — Choate School will build 1 story, 45 x 125 ft., brick, stone and steel infirmary. $150,000. Work will be done by separate contracts. Cram & Ferguson, 248 Boylston St., Boston, Mass., archts. Noted July 14.

N. Y., New York—SCHOOL—Bd. Educ., 500 Park Ave., general contract P. S. 152, Nagle and Hillside Aves., to Hayson Constr. Co., 44 Court St., Brooklyn, $574,000; heating, to H. Starkman & Bros., 1482-2nd Ave., $80,940. Noted June 30.

Pa., Phila.—ART MUSEUM — Comrs. Fairmount Park, City Hall, completing McFadden Art Museum wing, Parkway, to George A. Fuller Co., Morris Bldg. Archts. est. $625,000. Noted June 9.

Pa., Woodlawn—LIBRARY—B. F. Jones Memorial Library, J & L Steel Corp., Pittsburgh, general contract 1 story and basement, steel and stone, plain foundation, to A. and S. Wilson Co., 541 3rd Ave., Pittsburgh. Archts. est. $200,000. Noted Nov. 25.

Del., Wilmington—SCHOOL—Christ Our King Church, 28th and Monroe Sts., general contract 2 story and basement, 62 x 135 ft., steel and stone, 28th and Monroe Sts., to Joyce & Kerrigan, Pennsylvania Ave. and Franklin St., $151,850.

O., Cincinnati — SCHOOL — Bd. Educ., Denton Bldg., 3 story and basement, brick and rein.-con., and plain foundation, Montgomery St., to M. Penker & Sons, 123 Valencia St., $138,272. Noted Apr. 7.

Minn., Collegeville—AUDITORIUM and MUSIC HALL—O'Meara & Hills, archts., 1705 Arcade Bldg., St. Louis, Mo., masonry and carpentry contract 3 story and basement, rein.-con. and brick, here, to P. J. Pappenfus, 12 Weber Bldg., St. Cloud, for St. Johns College. Archts. est. $300,000. Noted May 19.

Mo., Kansas City—SCHOOL—Sisters of Notre Dame De Sion, general contract 3 story and basement, 77 x 189 ft., brick and rein.-con., 38th St. and Gillhan Rd., to Swenson Constr. Co., Shubert Theatre Bldg., Kansas City. Archts. est. $300,000.

Federal Government Work

Proposed Work

Ill., Great Lakes—Heating Plant—Spec. 5404—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans heating plant at Naval Training Station, here.

Calif., San Diego—Boiler—Spec. 5345—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans installing boiler at Naval Operating Base Hospital, here. L. E. Gregory, ch. of bureau.

P. I., Cavite—Water Main—Spec. 5397—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans water main at naval station, here.

Bids Desired

N. Y., St. George—Buoys—Aug. 3, by Superintendent Lighthouses, Staten Island, 7 bell buoys, 36 can and non riveted buoys; 188 small steel welded buoys, also 136 c.i. sinkers, 44 cast iron balls, 400 to 6,590 lb. each, with forged moroing eye cast in.

Pa., Pittsburgh — Bear Trap Leaves — Aug. 15, by U. S. Engineer Office, 2 sets bear trap leaves for Lock 5, Ohio River, here; adv. E. N.-R. July 28.

D. C., Wash.—Laundry Machinery—Aug. 11, by Dept. Interior, E. B. Finney, 1st asst. secy., laundry machinery at Freedmen's Hospital, 6th and Bryants Sts., N. W.

N. C., Goldsboro—Remodeling—Aug. 22, by Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here; adv. E. N.-R. July 28.

S. C., Charleston—Rewinding Motors—Spec. 5543—Aug. 3, by Bureau Yards & Docks, Navy Dept., Wash., D. C., rewinding dry dock pump motors at Navy Yard, here. Noted July 21.

Ala., Birmingham—Elevator—Aug. 15, by Supervising Architect, Wash., D. C., elevator in Post Office, here.

Miss., Vicksburg—Levee—See "Contracts Awarded."

Minn., Fergus Falls—Remodeling—Aug. 18 by Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here; adv. E. N.-R. July 28.

Mo., Jefferson Barracks (br. St. Louis)—Concrete Sidewalks—Aug. 9, by U. S. Vet-

Federal Government Work (Continued)

erans Bureau, 791 Arlington Bldg., Wash., D. C., concrete sidewalks at U. S. Veterans Hospital 92, here.

New Mexico—Road—Aug. 2, by Bureau Pub. Rds., Custom House, Denver, Colo., J. W. Johnson, dist. engr., grading 6.61 mi. Sections Cimarron-Taos Natl. Forest Rd., Taos Co.

Contracts Awarded

N. Y., New York—Laundry and Tunnel—U. S. Veterans Bureau, Wash., D. C., laundry addition and connecting tunnel at Veterans Hospital 81, here, to Beech Constr. Co., 122 Lexington St., Brooklyn, $6,137 and $7,826 respectively. Noted June 23.

Pa., Pittsburgh—Lock Gate—U. S. Engineer Office, 1 upper and 1 lower lock gate for Lock 15, on Monongahela River, to Heyl & Patterson, Inc., 51 Water St., $15,454. Noted June 2.

D. C., Wash.—Administration—Constructing Quartermaster, constructing east and west wings and connecting corridors to administration building. Walter Reed Hospital, to Fleisher Eng. & Constr. Co., Chicago, Ill. Archts. est. $1,077,605 (200 days). Noted July 16.

D. C., Wash.—Test Borings—Treas. Dept., at office Supervising Archt., Wash., D. C., test borings on site of building for Dept. Commerce between 14th, 15th, B and E Sts., to Philip J. Healey, Inc., 25 Church St., New York City, N. Y., $2,035. Noted July 7.

Va., Norfolk—Refrigerating Equipment, etc.—Spec. 5470—Bureau Yards & Docks, Navy Dept., Wash., D. C., refrigerating equipment and cold storage plant at operating base, here, to M. E. Stern, 500 Market St., $5,855.

W. Va., Huntington—Boat—U. S. Engineer Office, 1 steel manouver boat, for Kamawha River, to Zier Boiler & Sheet Iron Co., New Albany, Ind. $11,983. Noted May 19.

Ga., Fort Benning—Fuel Oil Tank—Constructing Quartermaster, constructing addition to fuel oil tank, to J. W. Cooper. Fidelity Bldg., Buffalo, N.Y., $3,540.

Miss., Vicksburg — Levee — Mississippi River Comn., U. S. Engineer Office, Vicksburg, will build 300,000 cu.yd. new levee and dikes at Pandleton; 325,000 cu.yd. enlargement at Sunny Side and Lakeport; 400,000 cu.yd. enlargement Salem-Henderson, and 450,000 cu.yd. enlargement at Duvall-Oakland, by day labor.

Michigan—Dredging—U. S. Engineer Office, Detroit, approximately 258,000 cu.yd. dredging channel Saginaw Bay, to Great Lakes Dredge & Dock Co., Williamson Bldg., Cleveland, O. $113,613. Noted May 28.

Ill., Chicago—Dredging—U. S. Engineer Office, dredging Rock Section Calumet River, to Great Lakes Dredge & Dock Co., Williamson Bldg., Cleveland, O., $38,870. Noted June 9.

Colorado—Road—J. W. Johnson, dist. engr. Bureau Pub. Rds., Customhouse, Denver, grading, etc. 6.46 mi. Sect. 2, Ward-Raymond Natl. Forest Rd. Project, Boulder Co. to Dooling Bros., Bank Blk., Denver, $66,687. Noted June 23.

Unclassified

Proposed Work

Aviation Field—Attleboro, Mass.—City plans aviation field. $25,000 or more. C. J. Merritt, chn. com. Private plans.

Athletic Field Improvements—Everett (br. Boston), **Mass.**—City, C. C. Nichols, comr., 43 Corey St., plans athletic field, improvements, bleachers, grading, Chelsea St. $25,000. Engineer not selected.

Subway—Springfield, Mo.—C. A. Dickerson, city clk., soon takes bids main structure National Avenue Subway, 470 cu.yd. each earth and rock excav., 1,570 cu.yd. A and 53 cu.yd. B concrete, 26 cu.yd. A concrete stairs, 84,600 lb. reinforcing, 161,000 lb. structural steel, 853 ft. 12- to 24-in. vitr. clay pipe, 440 ft. waterproofing, 1,170 ft. gas pipe railing, etc. Russell & Axon, and F. D. Hughes, Box 396, City Hall, engrs.

Sub-division Improvements—Beaumont, Tex.—Stern Realty Co. making plans improving land on Highland Ave. and Port Arthur Road, incl. paving $25,000, sewers $30,000, waterworks distributing system $15,000. Private plans.

Pipe Line and Distributing Systems—Texas—Dixie Gas & Utility Co., Marshall, purchased system Marshall Gas Co., Marshall, and making fields near Marshall to Warren, $5,000,000, also natural gas system at Orange, Lufkin and Nacogdoches, $40,000 each. Private plans.

Oil Pipe Line—Texas—Ohio Oil Co. and Transcontinental Oil Co., San Angelo, making preliminary surveys and plans, etc. 10 in. oil pipe line from Yates Oil Fields near San Angelo, to coast, probably near Port Arthur, $7,000,000. Private plans.

Bids Desired

Heating System—Cambridge (br. Boston), **Mass.**—Radcliff College taking bids heating system in college buildings. $25,000 or more. Frenck & Hubbard, 210 South St., Boston, engrs.

Rail Track—Chelsea (br. Boston), **Mass.**—July 29, by Eastern Massachusetts Street Ry. Co., 38 Chauncey St., Boston, 2,000 ft. 7 in. Tee rail track, on Everett Ave., here. Private plans.

Mechanical Equipment—Brooklyn, N. Y.—Aug. 9, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., mechanical equipment, incl. plumbing, heating, ventilating, electrical work, lighting fixtures, etc. in P. S. 104 addition, 92nd St. and 5th Ave., for Bd. Educ., 500 Park Ave., New York City.

Coal Trestle, etc.—Orangeburg, N. Y.—Aug. 10, by Dept. Mental Hygiene, Capitol, Albany, constructing coal trestle and railroad track at Rockland State Hospital, here; adv. E. N.-R. July 28.

Park Improvements—Ridgewood (br. Brooklyn), **N. Y.**—Aug. 2, by Park Bd. at office Dept. Parks, Arsenal Bldg., Central Park, New York City, park improvements, at Anawanda Park, here. W. R. Herrick, pres.

Refrigerating Work—Wingdale, N. Y.—Aug. 24, by Commsisioner Dept. Mental Hygiene, Capital, Albany, refrigerating work for kitchen and dining room Building G, at Harlem Valley State Hospital, here; adv. E. N.-R. July 28.

Underground Conduits—Detroit, Mich.—Aug. 1, by J. S. Foley, secy. Pub. Lighting Comn., 174 East Atwater St., underground conduits for power and lighting transmission cables in connection with municipal power plant, for Pub. Lighting Comn. $50,000. Smith, Hinchman & Grylls, 800 Marquette Bldg., engrs.

Culverts—Atlantic, Ia.—Aug. 2, at office Auditor Cass Co., 8 box culverts, etc. G. F. Canon, Atlantic, co. engr.

Grain Elevator—Omaha, Neb.—Missouri Pacific R. R. Co., E. A. Hadley, ch. engr., Ry. Exch. Bldg., St. Louis, Mo., taking bids 1,000,000 bu. rein.-con. and steel addition, here. $500,000. Former bids rejected.

Transmission Line—Missouri—See "Contracts Awarded."

Dredge Boat—St. Louis, Mo.—See "Contracts Awardad."

Bids Received

Subway—Phila., Pa.—Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., July 19, approximately 3,020 ft. subway in South Broad St., Contr. 109, from Heymen & Goodman, 880 8th Ave., New York City, $7,629,880. Noted June 16.

Contracts Awarded

Tunnel—Newton (Ind. br. Boston), **Mass.**—City, Building Dept., City Hall, concrete tunnel connecting high school, to C. S. Cunningham & Sons Constr. Co., 80 Boylston St., Boston, $36,859. Noted July 21.

Bowling Alleys—New Bedford, Mass.—J. B. Ashley, Jr., 366 Union St., bowling alleys, concrete buildings, Purchase St., to J. Buchan, 741 Kempton St. Archts. est. $35,000.

Operating Equipment—New York—A. Goldman, comr. Plant & Structures, Municipal Bldg., New York City, operating equipment at Slips 1 and 2, foot Whitehall St., Manhattan Boro, and Slips 1, 3 and 4, St. George Ferry Terminal, Richmond Boro, to J. Edward Ogden Co., Inc., 147 Cedar St., New York City, $143,800. Noted June 22.

Comfort Stations—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., general contract comfort station in St. Nicholas Park, to Carbone Constr. Co., 489-5th Ave., $22,850; and in Central Park, to Kandel Constr. Co., 103 Park Ave., $21,985.

Grandstand—Villanova, Pa.—Villanova College, 40 x 340 ft., rein.-con. grandstand, plain foundation, to C. R. Camp, 10 South 18th St., Phila., $39,818.

Transmission Line — Missouri — Missouri Power & Light Co., Mexico, will build approximately 20 mi. 33,000 volt transmission line from Vandalia to Wellsville, also reinsulate approximately 22 mi. from 16,000 volt to 33,000 volt transmission line between Mexico and Wellsville, by day labor. Private plans.

Dredge Boat—St. Louis, Mo.—Sternberg Dredging Co., 1706 Arcade Bldg., will build dredge boat 48 x 130 ft., by day labor; machinery and equipment for same, to Monighan Mchy. Co., 931 North Kilpatrick Ave., Chicago, Ill. Total $250,000. Private plans.

Pipe Line—Texas—Prairie Oil & Gas Co., Amarillo, 150 mi. 15 in. main pipe line from Amarillo to Lubbock, to Connor & Sons Constr. Co., 407 Security Bldg., Kansas City, Mo., $1,800,000.

Gas Pipe Line—Texas and Louisiana—Dixie Pipe Line Co., W. L. Moody, Jr., Galveston, 140 mi. 22 in. gas pipe line from North West, La. to Livingston, Tex. thence to Houston, Port Arthur and Orange, Tex., 150,000,000 cu.ft. carrying capacity, line to Houston, Port Arthur and Orange, 16 in. with 100,000,000 cu.ft. daily capacity, to Moody Seagraves Co., Orange, $10,000,000. Noted July 21.

Materials

Bids Desired

Steel, etc.—Elmira, N. Y.—Aug. 8, by Superintendent Reformatory, structural steel and steel window sash for Shop Building 3, at New York State Reformatory, here; adv. E. N.-R. July 28.

Frogs, Switch Points, etc.—Phila., Pa.—Aug. 4, by C. E. Walsh, purch. agt. Pennsylvania R. R. Co., 15 North 32nd St., West Phila., frogs, switches and switch points, Contr. 94—1927; guard rails, Contr. 95—1927; and paint, Contr. 96—1927.

Structural Steel, Gauge Rods, etc.—Phila., Pa.—Aug. 2, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., structural steel for bridges, Contr. 90—1927; gauge rods, crossings, turn outs, Contr. 91—1927; joint bars, Contr. 92—1927; and fence posts, Contr. 93—1927.

Cement—Alabama—Aug. 17, by State Hy. Comn., Montgomery, **(F. A. P. means Federal Aid Project)**, approximately 4,966 bbl. cement or 33,110 bbls. Puzzolam cement, for F. A. P. 151, Cullman Co. to be delivered f.o.b. cars Cullman, Hanceville and Garden City; 55,240 bbl. cement or 36.826 bbl. Puzzolam cement, for F. A. P. 149, Jefferson Co., delivered f.o.b. cars Warrior, Seloca, Kimberly and Morris; approximately 12,923 bbl. cement or 8,615 bbl. Puzzolam cement for F. A. P. 194, Montgomery Co., delivered f.o.b. cars Montgomery and tunters Stations; approximately 22,841 bbl. cement or 15,228 bbl. Puzzolam cement for F. A. P. 148, Montgomery and Autauga Counties, delivered f.o.b. cars Hunters Station, McQueen Station and Prattville; 36,568 bbl. cement or 24,379 bbl. Puzzolam cement for F. A. P. 146-B, Mobile Co., delivered f.o.b. cars Theodore, St. Elmo and Grand Bay; 35,826 bbl. cement or 23,884 bbl. Puzzolam cement, for F. A. P. 101 (reopened), Butler Co., delivered f.o.b. cars Fort Deposit, Searcy and Greenville; also 8,102 bbl. cement for F. A. P. 147, Jefferson Co., delivered f.o.b. cars Birmingham and at siding on Acton Spur.

Bridge Lumber—Iowa—Aug. 5, at office State Hy. Comm., Ames, 37 carloads bridge lumber delivered at various points in state.

Pipe—Seminole, Okla.—Mayor and City Council in market 100 tons 6 in. Class "B" c.i. pipe.

Ties—Montreal, Que.—Aug. 1, by G. P. MacLaren, genl. Ties & Times Agt. Canadian Natl. R.R. Co., railway ties.

Bids Received

Cement, Sand, Rock, etc.—Los Angeles, Calif.—M. B. Beatty, clk. Los Angeles Co., from Riverside Portland Cement Co., 742 South Spring St., Southwestern Portland Cement Co., 356 South Spring St., and California Portland Cement Co., Pacific Mutual Bldg., 2,600,000 bbls. cement in bulk, f.o.b. cars at mills (Crestmoore or Colton) $4,602,000, in sacks $5,772,000, in bulk in Districts yard at Azusa $5,343,000, and in sacks at Azusa, $6,513,000, etc.; from Union Rock Co., 7th and Los Angeles Sts., sand, etc., 1,620,000 tons sand, 1,330,000 tons gravel and crushed rock, etc., f.o.b. cars Largo or Rivas on P. E. Ry. and Kincaid on Atchison, Topeka & Santa Fe R.R., freight to be added as per schedule accompanying bid, $4,550,000; from Builders Crushed Rock Products Co., P. O. Box 568 Azusa, sand at $0.50 per ton, and rock $1 each class. Noted June 18 and 23.

See proposal advertising on page 120

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Bridge—Oakland, Calif.

Bids were opened by Alameda Co. (lowest three) for constructing bridge over Arroyo De La Laguna on County Road No. 5428, near Hacienda, Pleasanton Road Dist., Pleasanton Township, from (A) Baldwin Bros., Berkeley Builders' Exchange, Berkeley (awarded contract); (B) Walter M. Willett; (C) McDonald & Maztiora. The unit bids are as follows:

	A	B	C
550 cu.yd. excav. and backfill below elev. 275.0	$6.00	$5.50	$9.00
570 cu.yd. excav. and backfill above elev. 275.0	1.75	2.50	5.00
880 cu.yd. excav. for roadway	1.00	1.00	.75
5,650 sq.ft. 4-in. gravel roadway surf	.055	.075	.06
480 cu.yd. Class "A" concrete	14.50	23.00	22.00
440 cu.yd. Class "B" concrete	22.50	22.00	21.00
110,000 lb. reinforcing steel	.054	.05	.05
319,000 lb. structural steel	.072	.063	.06
Removal of bridge (lump sum)	100.00	1,000.00	200.00
100 lin.ft. steel guard fence	1.00	120.00	2.00
100 lin.ft. 12-in. iron drainage pipes	1.50	160.00	3.00
Cutting thru concrete (lump sum)	500.00	250.00	300.00
Totals	$52,706	$53,326	$54,289

Engineering News-Record, Issue of July 28, 1927.

Approaches to Viaduct, Cincinnati, Ohio

Bids were opened by Commissioners of Hamilton County, Feb. 25, for grading, curbing and paving 4,600 sq.yd. approaches to viaduct over Pennsylvania R.R. on I. C. H. 8, from (A) Foley Construction Co., 3209 Boudinot Ave., (awarded contract); (B) Brewer & Brewer; (C) J. L. Radabaugh, Montgomery; (D) W. P. Flynn. The unit bids are as follows:

	A	B	C	D
38,000 cu.yd. embankment	$0.80	$0.80	$0.90	$1.30
80 cu.yd. crushed stone, spread and rolled	4.00	4.00	4.00	5.00
20 cu.yd. screenings, spread and rolled	4.00	4.00	4.00	5.00
2,500 lin.ft. protection fence	.75	.80	.80	1.00
4,600 sq.yd. concrete pavement (1-1½-3) 10 in	3.00	2.90	2.90	5.00
1,200 lin.ft. concrete curb	.30	.40	.40	2.00
30 cu.yd. concrete (walls 1-2-4 mix)	15.00	15.00	15.00	20.00
4,600 sq.ft. cement sidewalks	.30	.30	.30	.30
Totals	$49,205	$50,100	$52,250	$79,780

Engineering News-Record, Issue of July 28, 1927.

Road—New Hampshire

Bids were opened by State Highway Department, Concord, Apr. 15, (lowest three) for road in Shelburne, Project No. 229-B, from (A) W. H. Hinman, Medway, Mass. (awarded contract); (B) A. G. Bianchi, Longmeadow, Mass.; (C) Williams & Sorrenti, Boston. The unit bids are as follows:

	A	B	C
13,173 cu.yd. earth excavation	$1.00	$0.90	$1.00
1,304 cu.yd. ledge excavation	2.50	5.00	4.00
3,887 cu.yd. gravel base course	1.45	1.35	1.50
2,529 cu.yd. gravel sur. course	1.45	1.50	2.00
16 cu.yd. class "B" concrete	25.00	25.00	20.00
55 cu.yd. class "C" concrete	20.00	20.00	20.00
1,842 lb. reinforcing steel	0.10	0.10	.05
186 lin.ft. laying 12-in. c.m. pipe	1.00	1.00	.70
10 lin.ft. laying 14-in. c.m. pipe	1.00	1.20	.70
14 lin.ft. laying 20-in. c.m. pipe	1.00	2.00	.70
364 lin.ft. laying 15-in. r.c. pipe	1.25	1.50	.90
32 lin.ft. laying 18-in. r.c. pipe	2.00	2.50	.90
512 lin.ft. wood guard railing	0.75	.70	.70
2,788 lin.ft. wire cable railing wp	.85	.80	.75
Totals	$30,903	$32,541	$33,742

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Road—Kansas

Bids were opened by State Highway Comn., Topeka, May 20 (lowest four and highest), for constructing 1.067 mi. Lecompton Road, State Highway No. 92, F. A. P. No. 268, Sect. I, Leavenworth Co., from (A) C. L. Dolman, Topeka (awarded contract); (B) M. R. Ammerman, Wichita; (C) Wyland, Lattin & Yard, Osborne; (D) A. L. Cook, Ottawa; (E) A. A. Davis & Co., Kansas City, Mo. The unit bids are as follows:

	A	B	C	D	E
38,417 cu.yd. earth excav.	$0.34	$0.42	$0.40	$0.38	$0.40
3,453 cu.yd. rock excav.	1.45	1.50	2.00	2.00	2.00
348.1 cu.yd. class "A" concrete	19.00	18.50	19.00	21.50	24.00
1.2 cu.yd. class "E" concrete	35.00	35.00	35.00	40.00	40.00
2.5 sq.yd. plain rip rap	1.25	4.00	4.00	4.00	2.50
39,069.1 lb. reinf. steel in place	.05	.05½	.05	.05	.06
1,710 lin.ft. guard fence, cable, R. C. posts	.75	.80	.75	.80	1.00
12.95 sta. hedge to be removed	10.00	10.00	10.00	10.00	12.00
Totals	$28,093	$31,453	$32,304	$32,498	$34,891

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Levee and Sea Wall—Beardstown, Ill.

Bids were opened by State Division of Waterways, 950 Transportation Bldg., Chicago, May 25, for constructing levee and seawall, from (A) McWilliams Dredging Co., 1537 McCormick Bldg., Chicago, (awarded contract earth levees); (B) J. A. Heyworth, Inc., 606 South Michigan Ave., Chicago (awarded contract concrete river front wall and other work); (C) B. Layton, Muscatine, La.; (D) Byrne Bros. Construction Co., Inc., 624 S. Michigan Ave., Chicago; (E) States Corporation, 38 S. Dearborn St., Chicago; (F) Kochlitzky & Prosser, Cape Girardeau, Mo. The unit bids are as follows:

	A	B	C	D	E	F
Clearing for embankment (lump sum)	$4,000.00	....	....	$9,280.00	$15,000.00	$5,000.00
450,000 cu.yd. embankment	.26½	....	....	.25	.24	.32
Cofferdams, pumping, bailing, etc. (lump sum)	....	$22,500.00	$37,500.00	56,169.30	87,900.00	10,000.00
11,000 cu.yd. excav. for concrete walls	....	1.00	2.00	.67	2.00	1.00
10,000 cu.yd. concrete	....	10.00	10.25	10.32	12.90	21.00
25,000 lb. metal reinforcement	....	.20	.05	.05½	.05½	.06
30,000 lin.ft. foundation piles	....	.75	.75	.85	.95	1.00
120 M. 1,000 ft. b.m. timber sheet piling	100.00	....	....	110.65	125.00	100.00
22,000 cu.yd. backfill	....	.60	.50	.28	1.00	.80
1,000 sq.yd. stone paving	3.00	....	....	3.00	2.00	3.00
1,000 lin.ft. vitrified pipe, 6 in. dia	.50	....	....	1.00	.50	.20
Totals	$138,750	$174,200	$196,750	$338,832	$431,275	$444,300

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UNIT PRICES *Continued on page 48a*

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Transmission line, Virginia Electric & Power Co., Virginia and North Carolina, plans improving system, $6,652,339.

Pipe line, Texas, Humble Pipe Line Co., Houston and Amarillo, making plans, $3,000,000.

Irrigation system, Eagle Pass, Texas, Maverick Co., making plans and soon takes bids, $2,000,000.

Waterworks, Santa Barbara, Calif., making surveys, $1,800,000.

Roads, Council Bluffs, Ia., Pottawayomic Co., voted $1,600,000 bonds.

School, Philadelphia, Pa., Archdiosese of Philadelphia, having plans prepared, $1,500,000.

Y.M.C.A. building, Philadelphia, Pa., having plans prepared, $1,500,000.

Sewers, Toronto, Ont., making plans, $1,000,000.

High school, Rock Island, Ill., Bd. Educ. having plans prepared, $1,000,000.

Bids Desired

Transit extension, Boston, Mass., Transit Dept., bids open Aug. 17, Sect. 2 Rapid Transit System; Aug. 31, Sect. 3, $4,500,000.

Theater, San Francisco, Calif., H. A. Minton, bids open about Aug. 20, $1,500,000.

Candy factory, St. Louis, Mo., Nat'l Candy Co., takes bids about Aug. 25, $1,000,000.

Bids Received

Bridge, Harrisburg, Pa., Dept. Property & Supplies, from James McGraw Co., Philadelphia, $1,824,851.

Contracts Awarded

Gas pipe line, Texas, Prairie Oil & Gas Co., Amarillo, to Nat'l Supply Co., Pittsburgh, Pa., approx. $3,000,000.

Hotel, San Francisco, Calif., Huckins Hotel System to Lindgren & Swinerton, $2,000,000.

Waterworks, Corpus Christi, Texas, to Smith Bros., $1,585,000.

Office and garage, Toronto, Ont., G. A. Stimson & Co. to Carswell Constr. Co., Ltd. Archts. est., $1,500,000.

Loft, B. F. Cohen, Philadelphia, Pa., to Taylor Meyers, Pittsburgh, Pa., $1,250,000.

Apartment, Richmond, Va., Monroe Terrace Interests, to Wise Granite and Construction Co. and A. J. Saville, Inc., $1,100,000.

Club, Chicago, Ill., Granger and Bollenbacher, archts., to E. L. Scheidehelm Co. Archts. est., $1,000,000.

News of the Week

Waterworks

Proposed Work

Conn., Putnam—Plans waterworks improvements, incl. new standpipe on Richmond Hill and standpipe enlargements, Bates Hill. $135,000 appropriated.

N. Y., Chautaqua—Making plans filtration and pumping plants. $40,000. Pease, Greeley & Hansen, 6 North Michigan Ave., Chicago, Ill., engrs.

Ga., Tallapoosa—J. W. Hildebrane, city clk., plans extending mains in various streets. K. F. Thomas, McGlawn Bowen Bldg., Atlanta, engr.

Mich., Berkley—Voted $25,000 bonds, waterworks improvements, incl. elevated tank, motor driven pump, etc. R. A. Murdoch Co., 602 Transportation Bldg., Detroit, engrs. Noted May 26.

Ill., Washburn—Takes bids about Aug. 16, 28,550 ft. 4- to 8-in. c.i. mains, 43 fire hydrants, thirty 4 in., sixteen 6 in. and two 8 in. valves, etc. in various streets. $42,689. Kinsey Eng. Co., Arcade Bldg., Pekin, engrs.

Kan., Bonner Springs—Voted $20,000 bonds, extending waterworks. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs.

Ark., Sheridan—Soon takes bids complete waterworks distribution system, sewers etc. in various streets. $75,000.

Tex., Barreda—Lasby & Crawford, San Benito, plans 1 story waterworks plant. $40,000. Engineer not announced.

Tex., Glen Rose—Making plans and soon takes bids water filtration plant and mains, etc. in various streets. $30,000. H. B. McAllister, Glen Rose, engr.

Tex., Pampa—Voted $70,000 bonds, extending waterworks. Engineer not announced.

Tex., San Benito—Central Power & Light Co., c/o F. C. Udden, dist. mgr., Frost Bldg., San Antonio, making plans brick and concrete filtration plant, 1 m.g.d. $50,000. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, Ill., consult. engrs. Noted June 9.

Tex., San Antonio—B. W. Mills c/o F. H. Booth, Frost Bldg., San Antonio, making plans new waterworks, in Palm Heights, here. $45,000.

Okla., Knowles — Made preliminary plans new waterworks, incl. deep well pump, motors, etc. $20,000. G. Hester, mayor.

Wash., Chehalis—Voted $80,000 bonds, 5 m.g. reservoir. B. Bantz, city engr.

Wash., Hoquiam—Making preliminary plans and surveys, industrial water resources, etc. C. E. Dorisy, Three Tree Point, and H. L. Gray, Henry Bldg., both Seattle, consult engrs.

Calif., Redwood City—E. M. Kneese, clk. San Mateo Co., withdrew call for bids to have been opened July 11, domestic water supply system for Ravenswood Water Dist. Will readvertise.

Calif., Riverside—Making plans additional water supply in Fairmount Park. $15,000 or more. E. R. Bowen, Central Bldg., Los Angeles, engr.

Calif., Santa Barbara—Making surveys Mona Dam and additional tunnel through mountains as auxiliaries to water system. $1,800,000. V. E. Trace, city water supt.

> *THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.*
>
> ***Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.***

Ont., Carleton Place—Making plans extending approximately 1 mi. 6 in. c.i. mains with specials, valves, hydrants, etc. in various streets. $15,000. E. A. Wilson, Carleton Place, engr.

Ont., Gananoque—Making plans extending 8,330 lin. ft. 6. in. and up c. i. mains, in various streets. $26,000. H. Rogers, Gananoque, engr.

Ont., Sandwich—Making plans extending approximately 1.5 mi. 6 in. c.i. mains, etc. in Dominion St. $20,429. C. R. McCall, Gas Bldg., Windsor, engr.

Ont., Swastika—Teck Twp. Council making plans waterworks and sewerage systems. $50,000. H. Sutcliffe, New Liskeard, engr.

Ont., Thorold—Thorold Twp. making plans 2 to 3 mi. 6. in c. i. mains, valves, etc., in various streets. $30,000. W. Chipman, Mail Bldg., Toronto, engr.

Ont., Willowdale—North York Twp. making plans 1 mi. 6 and 8 in. c. i. mains, valves, hydrants, etc. in Dufferin St., Beachmount and Hill Aves. $15,000. G. Baker, Willowdale, engr. Noted Feb. 17.

Bids Desired

Pa., Harrisburg—Aug. 15, by Dept. Pub. Wks., Bureau of Water, S. F. Haasler, supt., 36 in. force mains in various streets, adv. E. N.-R. Aug. 4.

Mich., Detroit—Aug. 10, by Bd. Water Comrs., 176 East Jeffierson Ave., superstructure weir and control chambers, 17,000 lb. structural steel, 700 cu.ft. cast stone work, 1,300 sq.ft. tile roof, 45,000 common and 20,000 face brick, etc. G. H. Fenkell, 176 East Jefferson Ave., engr.

Ill., Chicago—Aug. 9, by City, Room 207, City Hall, water service pipes and drains in various streets and avenues. M. J. Faherty, pres. Bd. Local Impvts.

Nev., Reno—Aug. 15, by E. H. Beemer, clk. Washoe Co., water pipe line between town of Wadsworth and Darby Canal, excavating and backfill trench 5,500 ft. long, 20 in. wide and 30 in. deep; approximately 1,000 cu.yd. excavation, 5,700 ft. 8 in. pipe, average haul 1 mi.; 5,700 ft. 8 in., 14 gage Armco welded iron pipe with field joints welded with 3 tees, 2 gate valves, 2 outlets, 1 in. globe valves and connections to existing lines at terminals. King & Malone, Cladinos Bldg., engrs.

Contracts Awarded

Mass., Springfield—Bd. Water Comrs. Contr. 10, Coble Mountain Diversion Tunnel to Coleman Bros. Inc., 245 State St., Boston, $362,800. Noted June 23 under "Unclassified."

La., Roseland—Town Council, Town Hall, general contract waterworks, to A. B. Hayden, Christian Pass, Miss., $12,086; pipe, to Dixie Mill Supply Co., 901 Tchoupitoulas St., New Orleans, $6,993; valves and hydrants, to Columbian Iron Wks., 811 Boyce St., Chattanooga, Tenn., $1,422; pumps, to Walter Castanedo, Inc., Canal Commercial Bldg., New Orleans, $3,466; tank on tower, to Chicago Bridge & Iron Wks., Hawly Bldg., Atlanta, Ga., $6,200; wells, to Blakemore Drilling & Eng. Co., New Orleans, $5,380. Grand total $35,547. Noted July 7.

O., Crooksville—Village, C. L. Dean, clk., waterworks plant, to E. F. Payne Co., New Lexington, $61,282. Noted July 14.

Ind., Bloomington — Filtration plant, piping and pumping equipment, etc; to C. A. Pike, Bloomington, $103,697. Noted June 16.

Mich., Royal Oak (Ind. br. Detroit)—Dept. Water Supply, 1½ m.g. elevated water tank, steel, for booster tank in connection with supply from Detroit Dept. Water Supply, on Lafayette Ave. to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill., $92,500.

See proposal advertising on page 159

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

"The World's Playground" has used Leadite with complete satisfaction for over 20 years

ATLANTIC CITY, New Jersey, is proud of its well-paved streets. In laying new or additional cast iron mains, the engineers always use Leadite. They know from the experience of nearly one-quarter of a century that Leadite joints are absolutely secure and that the occasion will not arise where paved streets have to be dug up to repair the line.

In addition to the mains under the paved streets, Leadite was used for jointing the 24" main that runs under the famous boardwalk.

Other lines run through salt marshes, over bridges and under numerous railroad tracks.

The sizes of these mains run from 4" to 48".

Mr. L. Van Gilder is Engineer and Superintendent of the Atlantic City water department.

Added to the security and permanence of Leadite joints there is a saving of 75%.

For its economy—permanence—security—and the speed with which jointing can be finished—Water Works men specify and use Leadite.

Laying 24" c. i. water mains, with Leadite Joints, in Atlantic City under paved street.

Specify and use

LEADITE

—it saves at least 75%

Be sure it is

LEADITE

and accept no imitations~~~

The pioneer self-caulking material for c. i. pipe. Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

Mich., Saginaw—Pumping and purification structures for waterworks, to F. R. Patterson Costr. Co., 2631 Woodwood Ave., Detroit, $1,293, and carbon dioxide equipment, to Flinn & Dreffin Co., 431 South Dearborn St., Chicago, Ill., $9,625. Noted June 16.

Ill., Galesburg—Sinking well to Potsdam Formation, approximately 2,500 ft., to W. H. Cater, Contg. Co., 2643 West Monroe St., Chicago, at $4,000 per ft. Engrs. est. $40,000. Noted Nov. 11.

Ia., Newton—Waterworks improvements, incl. 26,000 16 in. pipe, etc., to Charles Robeck Co., 408 Securities Bldg., Omaha, Neb., $106,900. Noted June 23.

Ia., Ottumwa—City Water Dept., 400,000 gal. elevated steel tank, to Pittsburgh-Des Moines Steel Co., Tuttle and South West 10th St., Des Moines, $30,140. Noted June 23.

Kan., Chetopa—For 300 hp. Diesel engine and 94 hp. generator, etc., to McIntosh & Seymour Co., Dwight Bldg., Kansas City, Mo., $23,475 and $2,300 respectively. Noted June 9.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, manufacturing and driving piles for coagulant house foundation, etc. at Howards Bend Water Works Station on Missouri River, to McCormack-Combs Constr. Co., Columbia Bldg., $20,790. Noted June 30.

Tex., Alice—Waterworks improvements, incl. drilling well, motor driven rotary pumping equipment, 500 g.p.m., to Layne & Bowler Co., Chelsea Ave., Memphis, Tenn., approximately $16,000.

Tex., Corpus Christi—Improving water supply, to Smith Bros., Corpus Christi, $1,585,000.

Tex., Harlingen—Waterworks improvements, pump house, to R. A. Ewing, Harlingen, $25,687; water mains, to Nat. Cast Iron Pipe Co., Santa Fe Bldg., Dallas, $9,500; fire hydrants and connections, to San Antonio Machine Supply Co., 325 North Center St., San Antonio, $4,000. Grand total $39,187 Noted May 12.

Okla., Carter—Waterworks, to Sherman Iron Wks., 18 East Main St., Oklahoma City, $29,377. Engrs. est. $31,000. Noted July 7.

Calif., Huntington Park—For c.i. mains, etc. in Pacific Blvd., to G. Mitchell, 619 West Belgrave Ave., $33,418.

Calif., Oakland—East Bay Municipal Utility Dist., Lafayette Dam to G. Pollock Co., Forum Bldg., Sacramento, $1,370,685. Noted July 28.

Calif., San Bernardino—For 10,000 ft. 4 in. Class "250" Delavaud c. i. pipe, 12 ft. lengths, to U. S. Cast Iron Pipe Co., Wright-Callendar Bldg., Los Angeles, $4,450; also 10,000 ft. 6 in. and 2,500 ft. 8 in. pipe, 16 ft. lengths, to Amer. Cast Iron Pipe Co., Rives-Strong Bldg., Los Angeles, $6,746 and $2,418 respectively. Grand total $13,614.

Calif., Vista—Vista Irrigation Dist., 51,000 ft. excavating and backfilling trench for 4- to 12-in. concrete and steel pipe, to Crump Irrigation & Supply Co., Encinitas, $7,287; laying 12,100 ft. 8- to 12-in. concrete pipe, and 40,000 ft. 4- to 6-in. welded steel pipe, to Escondido Cement Products, Escondido, $5,051 and $2,700 respectively. Grand total $15,038.

Sewers

Proposed Work

Mass., Chicopee—Plans improving sewers in 17 various streets. $100,000. M. I. Shea, mayor.

Mass., Lakeview—Commonwealth of Massachusetts, Boston, rejected bids July 11, sewerage system disposal plant, etc. at Lakeville Sanatorium, here. Probably readvertise. Noted July 21.

W. Va., Huntington—Plans storm and sanitary sewers in Walnut Hills, $73,000. A. B. Maupin, city clk.

Ga., Albany—C. G. Wright, city mgr., City Hall, plans sewers in alley between 1st and 2nd Sts.; also lighting system on Highland Ave., Washington, 3rd, Monroe and Pine Sts. Address City Engineer.

Ga., Baxley—G. Holton, city clk. making plans sewers in various streets. $310,000. Bonds voted for same. Engineer selected soon.

Miss., Union — Voted $40,000 bonds, sewers in various streets.

Mich., Pleasant Ridge—Made plans 2,769 ft. 12- to 24-in. vitr. clay sewers, etc. in Warner Ave. $25,000. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Ill., Monmouth—Making plans sewerage system. Kinsey Eng. Co., Arcade Bldg., Pekin, engrs.

Kan., Kansas City—Rejected bids June 28, sewers in Argentine Dist. $30,000. R. W. Swope, City Hall, engr. Noted June 23.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids Sect. B Western Mill Creek Public Relief Sewer, rein.-con. pipe with laterals and connections. $742,000. W. W. Horner, 300 City Hall, engr. Noted June 16.

Ark., Sheriden—See "Waterworks."

Tex., Glen Rose—Making plans and soon takes bids sewerage system. $40,000. H. B. McAllister, Glen Rose, engr.

Tex., Pampa—Voted $160,000 bonds, extending sewers in various streets. Engineer not announced.

Tex., Point Isabel—James & Dickenson, Brownsville, making plans 2 m.g. rein.-con. sewerage system. $100,000.

Tex San Antonio—B. W. Mills, c/o F. H. Booth, engr., Frost Bank Bldg., making plans 6- to 8-in. sewers and 2 in. laterals in Palm Heights addition, here. $30,000.

Tex., Tioga—Voted $30,000 bonds, sewerage system, incl. disposal plant, mains, etc.

Wash., Aberdeen — See "Streets and Roads."

Calif., Los Angeles—Made plans 38,923 ft. 6 and 8 in. vitr. clay sewer in Holmby and Santa Monica Blvd. Sewer Dist. E. W. Tuttle, City Hall Annex, engr.

Ont., Carleton Place—Making plans approximately 1.5 mi. 8 in. and up vitr. tile sewer in various streets. $25,000. E. A. Wilson, Carleton Place, engr.

Ont., Forest Hill—Making plans 1.5 mi. 8 in. and up vitr. tile sewers in Deverall and Monclair Aves., Lonsdale, Dunloe, Burton and Spadina Rds. $30 000. James Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Gananoque—Making plans 8,100 ft. 8 in. and up vitr. tile sewers in various streets. $25,000. H. Rogers, Gananoque, engr.

Ont., Swastika—See "Waterworks."

Ont., Thorold—Making plans 2 to 3 mi. vitr. clay sewers in various streets. $30,000-$40,000. W. Chipman, Mail Bldg., Toronto, engr.

Ont., Toronto—Making plans activated sludge sewage disposal plant at Leaside in connection with North Toronto Sewage Scheme. $1,000,000. Gore, Nasmith & Storre, Confederation Life Bldg., Toronto, and Metcalfe & Eddy, 14 Beacon St., Boston, Mass., engrs.

Ont., Walkerville—Town Council plans approximately 2 mi. 8 in. etc. vitr. tile or concrete relief storm sewer in Walker Rd. $150,000. H. W. Patterson, Walkerville, engr.

Bids Desired

R. I., East Providence (br. Providence)—Com. on Sewage Disposal, Town Hall, taking new bids sewerage disposal plant. $25,000 or more. Former bids rejected. Private plans. Noted July 6.

N. Y., Port Washington—Aug. 16, by Sewer Comrs. Port Washington Sewer Dist., 13,000 ft. 12 or 8 in. vitr. clay or concrete sewer, etc. B. F. Allen, 277 Main St., engr., adv. E.N.-R. Aug. 4.

Md., Baltimore—Aug. 10, by Bd. Awards, 2,460 ft. 12 ft. 1 in. x 18 ft. 8 in. brick and concrete each drain; 4,068 ft. 18- to 21-in. vitr, pipe, 4,060 ft. 4- to 8-in. underdrain, 315 vertical ft. standard manholes, etc., in Sewer Dists. 3 and 48, Contr. 209. M. J. Ruark, 311 Courtland St., engr.

Ala., Birmingham—Sept. 1, by City Comn., brick, c.i. and terra cotta sewers in 10 blocks 85th, 86th, 87th, 6th to 10th Ave. of West Garden survey, $26,700; also 3 blocks 77th St. and 4th Ave. S., $1,600. A. J. Hawkins, engr.

La., New Orleans—Sept. 29, by Sewerage & Water Rd. at office A. G. Moffat, secy., 526 Carondelet St., electric machinery; adv. E. N.-R. Aug. 4.

Ind., Indianapolis—Taking bids sewers in West Michigan St. $130,807. P. Brown, City Hall, engr.

O., Canton—Sept. 1, by Bd. Control storm sewer in Weitz Ave. to drain 5th, 6th, 7th, 8th, 9th, 10th and 11th Sts. $90,000. W. E. Sarver, City Hall, engr.

Mich., Denton—Aug. 8, by G. A. Dingeman, Wayne Co., Drain Comr., County Bldg., Detroit, 12- to 18-in. crock sewers etc., in South Branch Denton Drain; also 9,405 ft., 10- to 18-in. crock sewers in Denton. G. A. Dingeman, Detroit, engr.

Mich., Halfway—Aug. 17, by A. J. Wendt, village clk., 29,690 ft., 12- to 33-in. sewers, etc., in Dist. 2. H. R. O'Mara, village engr. adv. E.N.-R. Aug. 4.

Ill., Chicago—Aug. 9, by City, Room 207, City Hall, tile pipe sewers, with brick manholes and catch basins in portions East 84th and West 92nd Pl., East 85th St., Longwood Dr., Easton, South Keating, South Claremont, Hunt, Howland, Rogers, Harding, North Crawford, North Springfield and North Avers and North Hamlin Aves. M. J. Faherty, pres. Bd. Local Impvts.

Ill., Chicago—Aug. 25, by Clerk Sanitary District of Chicago 910 South Michigan Ave., North Side Sewage Treatment Works Div. R. Discharge Sewer, T. J. Crowe, pres.; adv. E. N.-R. Aug. 4.

Minn., South St. Paul—Aug. 15, by City J. R. Stevenson, recdr., approximately 6,000 lin.ft. 7 in. to 4 ft. trunk sewer in Wentworth Ave., and approximately 4,100 lin.ft. 27 in. to 4 ft. 8 in.; sewers in Central Ave. also 1,400 lin.ft. 16 to 27-in. storm sewer in Birch Ave., $35,000.

Minn., Winona—Aug. 15, by G. W. Hofmann, city recdr., 12 to 30-in. storm sewers, 77 manholes, 274 inlets and catchbasins in various streets; also one concrete headwall, $87,651. E. E. Chadwick, city engr.

Ark., Jonesboro.—Aug. 11, by Cobb & Lee, engrs., American Trust Bldg., 10,260 ft. 12- to 21-in. round sewers, etc. in Jonesboro Storm Sewer and Drainage Dist. 30 of Craighead Co. for city.

Calif., Los Angeles—Aug. 9, by South Bay Cities Sanitary Dist., Main Trunk Sewer Extension 2 from Francisco to Pacific Aves. A. K. Warren, Law Bldg., Los Angeles, engr.

Calif., Los Angeles—Aug. 10, by A. S. Soule, secy. County Sanitation Dist. 2, Law Bldg., equipping activated sludge sewage treatment plant, incl. 2 horizontal centrifugal pumps and motors, 2 complete sludge removal mechanisms, incl. drive mechanism, gears, motors, floor sweeps, etc. 1 sludge pressure pump, etc. A. K. Warren, Law Bldg., Los Angeles, engr.

Calif., San Mateo—E. W. Foster, city clk., taking bids 6,330 ft. 6- to 24-in. sewer, etc., in various streets. $25,000 available. O. F. Weissgerber, city mgr.

Ont., Toronto—Sept. 27, by T. Foster, chn. Bd. Control, equipment and appurtenances for North Toronto Sewage Treatment

Ont. Toronto—See "Contracts Awarded."

B. C., Vancouver — "See Contracts Awarded."

Contracts Awarded

N. Y., Mamaroneck—Bd. Village Trustees, Halstead and Ward Aves., constructing Sewer Contr. 8, to A. DiMarco, Plainville, Conn., Contr. 9, to Ferrari & Iannnarelli, Mamaroneck, and Contr. 10, to D. F. MacNamee Contg. Co., New Rochelle. Noted June 16.

N. J., Teaneck (mail West Englewood)—Twp. Com., Municipal Bldg., sewers in various streets Contr. "W," to J. Cestone, 65 Glenridge Ave., Montclair, $35,711. Noted June 23.

Md. Baltimore—Bd. Awards, 4,429 lin.ft. 27- to 42-in. rein.-con. drains, etc. in Sewer Dist. 48, Storm Water Contr. 108, to Adams & Marino, Old Town Natl. Bank Bldg., $47.944.

Miss., Jackson—For 20 mi. sewers in various streets, to F. D. Harvey, 688 South Bellevue St., Memphis, Tenn., $73,160; and pipe, to Choctaw Machine Co., Jackson.

La., Winnfield—For 67,359 ft. 8- to 18-in. sewers, etc. in Dist. 1, to J. B. McCrary Eng. Corp., 1408 Citizens & Savings Bldg., Atlanta, Ga., $98,714.

O., Garfield Heights (br. Cleveland)—Village, concrete sewers in various streets, here, to Carroccio & Gaudio, 14,109 Benwood Ave., Cleveland, $191,231.

O., Parma (br Cleveland)—Village, constructing sewers in Westminister Group, to Gantose Constr. Co., Brookpark Rd., Cleveland, $88,008.

Ind., Anderson—Bd. Pub. Wks., vitr. clay sewer in Shadeland Dist., to Northern Indiana Constr. Co., South Bend, $76,175. Noted June 30.

Mich., Detroit—Dept. Pub. Wks., to Iadipaolo & Co., 516 Transportation Bldg., vitr. sewers in Lateral 4871 $4,949, and Lateral 4873 $2.031; to S. Farino, 593 South Bayside Ave., Lateral 4872 $5,637;

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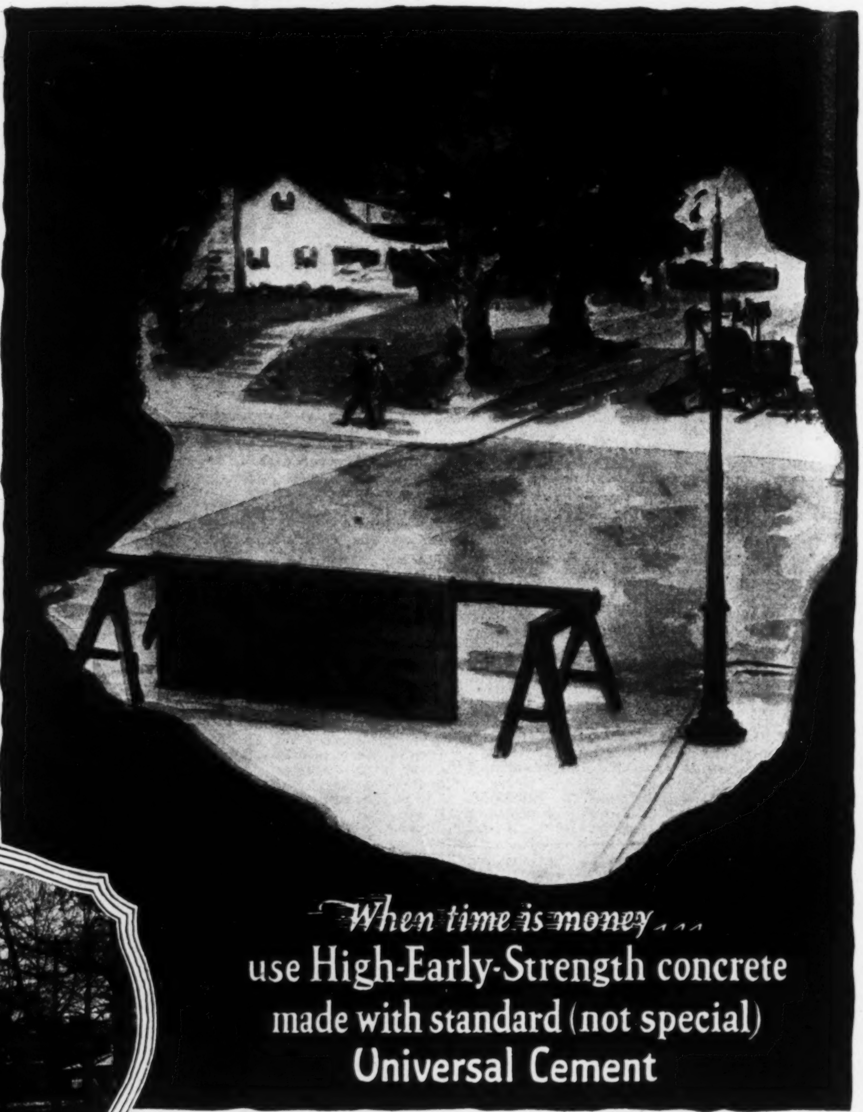
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Sewers (Continued)

to Louwers & Somerville, 1224 Michigan Theatre Bldg., Lateral 4874 $15,380; to J. Leo, 1762 Puritan Ave., Lateral 4876 $5,493; to Dept. Pub. Wks., City Hall, Lateral 4869, $3,033; to G. Vella, 516 Transportation Bldg., Lateral 4870 $4,487, Lateral 4875 $35,100, and Lateral 4877 $34,900. Grand total $111,009.

Mich., Wyandotte—For 35,000 ft. 12 in. to 5 ft. vitr. crock, concrete and brick sewers in assessment Dist. 74, to A. Arcari, 13535 Woodward Ave., Detroit, $115,100.

Neb., Beemer—J. B. Severa, city clk., City Hall, cement tile sanitary sewerage system, to H. J. Peterson Co., 303 Baum Bldg., Omaha, $22,312. Engrs. est. $26,500. Noted June 30.

Tex., Amarillo—For 7 mi. sewers in various streets, to Green Constr. Co., 519½ West Main St., Oklahoma City, Okla., $361,007. Noted July 6.

Tex., Amarillo—For 7 mi. 16- to 30-in. sewers in various streets, to Green Constr. Co., 519 West Main St., Oklahoma City, Okla., $361,007. Noted June 30.

Tex., Ft. Worth—Universal syphon sewers in Van Zandt Addition, to McKenzie Constr. Co., Bedell Bldg., San Antonio, $54,494. Noted July 28.

Tex., Perryton—Sewerage system, to C. L. Burt, Hutchinson, Kan., $57,134.

Wash., Camas—City Comrs., 3 mi. 6- to 18-in. cement outfall sewer in South Camas Dist., to empty into Columbia River, etc., to C. A. Knapp, Camas, $41,723. Engrs. est. $53,122. Noted July 7.

Wash., Sunnyside—Complete sewerage system and sewage disposal plant, to W. J. Longston, Granger, $83,329. Engrs. est. $85,000. Noted June 2.

Calif., Glendale—For 3,126 ft. 10 in. and 44,932 ft. 8 in. sewer, etc. in Louise St. and Fairview Ave., Dist. 11, to M. J. Simonovich, 727 Alpine St., Los Angeles, $111,920.

Calif., Los Angeles—Sewers, etc. in Colorado Blvd. between Dahlia Dr. and Maywood Ave., to Radich & Grancich, 2810 Dobinson St., $91,818.

Calif., Los Angeles—Bd. Pub. Wks., outfall sewerage system for Metropolitan Sewer Dist., to J. Artukovich, 684 East 50th St., $58,024.

Calif., Los Angeles—Los Angeles Co. Sanitation Dist., sewer in Old River School Rd. to Ross Constr. Co., 105 West 4th St., $413,213. Noted June 30.

Calif., Los Angeles—Sanitary sewer, etc. in Fairfax Ave. between Pico Blvd. and Airdrome St., to Chutuk, Kordich & Vukojevich, Wilcox Bldg., $38,012; also concrete storm drain, etc. in Wilshire Blvd., to H. A. Teget, 224 Harvard Pl., Ontario, $34,805. Noted May 19.

Calif., Santa Ana—For 11,931 ft. 8 in., 2,500 ft. 16 in. and 21,912 ft. 6 in. sewers, etc. in Southwest Sewer Dist. 130, to S. C. Kruly, 326 North Hill St., Los Angeles, $87,825. Noted Ma[illegible] 26.

Ont., Ottawa—For 8 x 4 in., reinforced box sewer in Byng Dr., Iona and Edna Sts., etc., to Grant Bros., Bank Natl. Bldg., Rideau St., $67,000; also 6 ft. reinforced lock joint pipe, to J. Haley, Ottawa, $11.50 per ft.

Ont., Port Hope—For 1 mi. 8 in., etc., vitr. clay sewers in various streets, to A. Cope & Sons, Ltd., 29 Albert St., Hamilton. Engrs. est. $25,000.

Ont., St. Catherines—For 3,075 ft. 18- to 24-in. tile sewer in various streets, to F. F. Fry Ltd., 43 Scott St., Toronto. Engrs. est. $25,000. Noted Mar. 17.

Ont., Toronto—Approximately ½ mi. brick and concrete sewer in tunnel from Avenue Rd. to Rosewell Ave. via Avenue Rd., Glengrove and Rosewell Aves., in connection with North Toronto Sewerage Scheme, Sects. B and C., to W. E. Taylor, 22 Falcon St., $71,239.

Ont., Toronto—York Twp., vitr. tile sewers in Pendeen Ave., East Dr. Bexley and Whitmore Crescents, to J. H. McKnight Constr. Co., 88 St. Davids Ave., $22,865; Florence Crescent to Michell Constr. Co., 55 Greensides Ave., $2,197; Eglinton and Perrin Aves., to W. E. Taylor, 22 Falcon St., $2,410. Grand total $27,472. Engrs. est. $30,000. Noted May 5.

Ont., Toronto—Twp. York will build vitr. tile sewers in Silverthorn and Ewart Aves., Riverside Dr. and Masson Rd., by day labor. $55,000. F. B. Goedike, 40 Jarvis St., engr.

Ont., Toronto—Vitr. sewers in Lane 1st west of McDonnell Ave., to W. G. Worden, 41 Huntley St. $1,856. Lake St., to Grant Contg. Co. Ltd., 50 Front St. E. $15,500, and Fleet St., to Natl. Contg. Co. Ltd., 52 Imperial St., $20,000; also 1 mi. brick and concrete sewer in tunnel from Eglinton to Glencairn Aves. via Avenue Rd., Pears Park, Rosewell and St. Clements Aves., Sect. A and B, in connection with North Toronto Sewerage Scheme, to W. R. Worthington Constr. Co., 287 Belsize Dr., $165,900. Grand total $203,256.

Ont., Toronto—For 8,000 lin. ft. 12 in. and up vitr. tile or concrete sewer in Queens Quay, storm sewer Sects. D and E, Contr. 1, also Sects E and F, and sanitary sewer Sects. G and H, Contr. 2, to W. R. Worthington Constr. Co., 287 Belsize Dr. Engrs. est. $55,000.

B. C., Vancouver—Vancouver & Dist. Joint Sewage & Drainage Bd., will construct 12 blocks 2 ft. 6 in. to 5 ft. trunk sewer in Hastings Townsite, by day labor. Engrs. est. $250,000. E. A. Cleveland, 500 Beatty St., engr.

Waste Disposal

Proposed Work

N. J., Hackensack—Hackensack Impvt. Comn., Municipal Bldg., plans 100 ton incinerator disposal plant, incl. chimney, machinery, etc. $90,000. Private plans.

Bridges

Proposed Work

Mass., Brighton (Boston P.O.)—Dept. Pub. Wks., Boston, plans reconstructing concrete bridge and grading to cross Boston & Albany R.R. tracks, at Market St., here. $25,000 or more. Private plans.

Mass., Framingham—Bd. Pub. Wks., City Hall, plans concrete bridge Mt. Wayte Ave. $25,000 or more. H. F. Twombly, chn.

North Carolina—State Hy. Comn., Raleigh, plans new 1,250 ft. bridge with bascule type draw span across Pamlico River in Washington; and new bridge across Tar River at Greenville.

Miss., Yazoo City—Yazoo Co. takes bids about Sept. 1, 18 span 324 ft. creosoted timber bridge at Broad Lake, and 16 span 304 ft. concrete bridge at Tokeba Bayou, 116,170 ft. creosoted and 4,592 ft. untreated lumber, 5,150 ft. creosoted piling, etc. $40,000. H. C. Deltzer and C. Simmons, State Hy. Dept., Jackson, engrs. Noted July 21.

Michigan—E. R. Benkert, resident engineer, Port Huron, takes bids about Aug. 11, two 75 ft. spans concrete girder bridge on S.R. 1 of 77-22-21, St. Clair Co., for State Hy. Dept., Lansing.

Wis., Superior—Making plans one 50 ft. and seven 60 ft. span steel viaduct on concrete piers. $150,000. E. B. Banks, city engr.

Kan., Emporia—See "Streets and Roads."

Mo., Kansas City—City and Kansas—City Terminal Ry. Co., J. V. Hanna, ch. engr., Union Station, making plans rein.-con. and steel viaduct over railroad tracks at Walnut St. $350,000. Lauck & Lauck, 1004 Orear Leslie Bldg., Kansas City, archts.

Mo., Kansas City—Kansas City Pub. Serv. Co., 15th and Grand Sts., soon takes bids steel street-car bridge over railroad tracks at 8th St., $150,000.

Tex., Beaumont—Southern Pacific Ry. Co., R. W. Barnes, ch. engr., Houston, making plans 400 ft. timber steel and concrete viaduct over railway yards, from Neches St. to Trinity, Laurel and Magnolia Aves., here. $250,000. Private plans.

Tex., Brownsville—Brownsville & Metamoras Municipal Bridge Co. plans rein.-con. and steel suspension bridge across Rio Grande River. $200,000. V. L. Conrad, Brownsville, engr.

Tex., New Braunfels—City and Comal Co. making preliminary plans 170 ft. rein.-con. bridge and underpass across Comal Creek, on Highway 46, Seguin St. $100,000. Engineer selected soon.

Tex., Stinnett—Hutchinson Co. (Plemons) making plans 190 ft. concrete and steel bridge over Canadian River, near here. $60,000. E. McBridge, Plemons, engr.

Wash., Seattle—Plans bridge, $25,000, also widening West Spokane St. W. C. Morse, city engr.

Calif., Long Beach—Made plans concrete bridge over flood control channel on West State St. $210,000. R. D. Van Alstine, city engr. Los Angeles Co. (Los Angeles) appropriates toward cost.

Bids Desired

Massachusetts—See "Streets and Roads."

Massachusetts—Aug. 11, by Metropolitan Dist. Comn., removing old bridge and new rein.-con. and stone bridge over Charles River at Wales and Walnut Sts. in Newton and Wellesley. J. R. Rablin, 1 Ashburton Place, Boston, engr.

New York and New Jersey—Oct. 3, by J. E. Ramsey, ch. executive Officer, of Port Authority, 75 West St., New York City, fabricating and erecting steel work of Hudson River Bridge between Fort Washington and Fort Lee. adv. E.N.-R. Aug. 4.

N. J., Newark—Aug. 29, by State Hy. Dept., Trenton, bridges, etc. on Route 1, Extension, Sect. 14-A, Essex Co., here. A. L. Grover, secy.; E. N.-R. Aug. 4.

Pa., Phila.—Aug. 12, by C. E. Walsh, purch. agt. for Pennsylvania R.R. Co., 15 North 32nd St., West Phila., steel superstructure, Contr. 98; slag ballast, Contr. 99; and crossings, Contr. 100.

Alabama—See "Streets and Roads."

Miss., Yazoo City—Aug. 16, by Bd. Supervs. Yazoo Co., bridges on Federal Aid Projects 48, 179-D and E. H. C. Dietzer, Jackson, state highway engr.

Tennessee—Sept. 16, by State Hy. Comn., Nashville, constructing bridge on State Highway 2, Loudon Co.; State Highway 1, Benton and Humphreys Counties; and State Highway 15, Hardin Co. C. N. Bass, comr.; adv. E. N.-R. Aug. 4.

Ind., Water Valley (mail Shelby)—Aug. 24, by Bd. Comrs. Lake Co. (Crown Point), and Newton Co. (Kentland), removing 3 south spans and constructing Span 3, by the side of Span 4 over Kankakee River, removing Span 1 or 2 to George Ade bridge in Sect. 15 in Iroquois Twp., and using old steel in place of Mathers Bridge in Sect. 12, same twp., etc. W. E. Whitaker, aud. former and C. H. Adamson, aud. latter counties.

Michigan—Aug. 12, by R. R. Havens, 8291 Greenwood Ave., Jackson, constructing S. R. Bridge 33-6-31, Contr. 1 and 2, Ingham Co., for State Hy. Dept., Lansing.

Mich., Mason—Aug. 12, by Ingham Co., Two 50 ft. spans, 5 ft. sidewalk, State Route Bridge 1, of 33-6-31, R. R. Havens, Jackson, res. engr.

Mich., Port Huron.—Aug. 11, by St. Clair Co., two 75 ft. spans, 22 ft. R. W. rein.-con. G. span, bridge 1 of 77-22-21 Contr. 1, E. R. Benkert, Port Huron, res. engr.

Kan., Stockton—Aug. 19, by Rooks Co., two 50 ft. steel truss, one 40 deck girder span bridge, Project 55-A, Road K-18.

Okla., Agua (mail Calvin)—Aug. 11, by W. L. Bartlett, clk. Hughes Co., 1 span 52 ft. steel truss bridge on piers, stone masonry abutments, 87.71 tons truss steel, 2,160 ft. wooden piling, etc. Hughes Co., here. $36,210. R. Grace, Holdenville, engr.

Calif., Los Angeles—Aug. 22, by Bd. Pub. Wks., 2,026 ft. concrete bridge 71 ft. over Los Angeles River, Atchison, Topeka and Santa Fe. and Union Pacific R.R. tracks. at 1st St. $2,000,000. M. Butler, Brunswing Bldg., engr.

Bids Received

Pa., Harrisburg—B. E. Taylor, secy. Dept. Property & Supplies, Capitol, Soldiers and Sailors Memorial Bridge, State St., Contr. 2, 36,000 cu.yd. concrete, 1,810,000 lb. reinforcing and 1,940,000 lb. structural steel, from James McGraw Co., Phila., $1,624,651. Noted June 30.

Contracts Awarded

Massachusetts—Commonwealth of Massachusetts, Dept. Pub. Wks., Boston, 2 rein.-con. bridges on highway in West Stockbridge, to S. W. Menagiralle, Stockbridge, $42,306; and 50 ft. rein.-con. bridge on highway, at Granby, to Kelleher Corp., Turners Falls, $6,632. W. F. Williams comr.

Mass., Fall River—City, F. B. Manning supt. streets, concrete bridge, on Weaver St., to J. F. Mooney, Granite Block. Engrs. est. $25,000.

Conn., Hartford—City Bd. Park Comrs., 340 ft. steel and concrete foot bridge, 11 ft., on North Front St. and Riverside Park, foundations to A. W. Byrne & Son, 79 Livermore St.; and superstructure, to Porcupine Co., Fairfield. Engrs. est. $60,000.

New York—A. Goldman, comr, Plant & Structures, Municipal Bldg., New York City, Greenpoint Ave., temporary bridge and approaches over Newtown Creek, between Brooklyn and Queens Boros, to H. Johnson, Astoria Ave. and East 46th St., Elmhurst, $94,500. Noted June 9.

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Bridges (Continued)

W. Va., Charleston—Kanawha Co., 1 span, 200 ft. steel and concrete bridge across Cabin Creek, to E. R. Mills, Covington, Ky., $36,048. Noted June 30.

W. Va., South Charleston (br. Charleston)—Carbon & Carbide Chemicals Corp., 2 span 400 ft. rein.-con. and steel bridge, to Vicennes Bridge Co., Vincennes, Ind. Engrs. est. $50,000. Noted June 23.

Miss., Belzoni—See "Streets and Roads."

La., Shreveport—Police Jury Caddo Parish, Slattery Bldg., 110 ft. steel span bridge with 400 ft. trestle approaches over Soda Lake near here, to A. M. Wilkes, Box 480, Alexandria, $30,189; and 29,000 cu. yd. fill, to J. J. McKeithen. Noted June 9.

O., Akron—Summit Co., rein.-con. bridge over Ohio Canal, at West South St., to Portage Constr. & Finance Co., 218 Twin Oaks, $32,000. Engrs. est. $30,000.

O., Bolivar—Stark Co. (Canton) and Tuscarawas Co. (New Philadelphia), concrete and rein.-steel bridge over Tuscarawas River, north of here, to Roberts Supply Co., 419-21 Opera Blk., Lima, $77,700.

O., Dayton—F. A. Kilmer, clk., Montgomery Co., Court House, substructure for Bridge 187, 225 ft. steel truss span, 20 ft. roadway over Stillwater River, on Dog Leg Pike, Butler Twp., to Schwingel & Robinson, Columbus, approximately $20,000. Noted June 2.

O., Springfield—For 118 ft. etc. span rein.-con. bridge, on Plum St., to W. J. Hinds Constr. Co., 517 East Madison Ave., $55,154. Engrs. est. $50,000. Noted Feb. 10.

Ind., Plymouth—Comrs. Marshall Co., bridge, on Jefferson St., to Campbell & Hash. Sandborn, $41,994.

Michigan—H. C. Fleming, resident engr., Grand Rapids, constructing FX 1, Bridge of 41-11-4 (1), Kent Co., to Peninsular Constr. Co., 322 Ottawa St. N.W., Grand Rapids, for State Hy. Dept., Lansing. $40,770. Noted July 7.

Michigan—R. W. Roberts, resident engr., Saginaw, constructing F Bridge 1, 29-16-25, Gratiot Co., Contr. 1, to Amer. Bridge Co., 1328 Buhl Bldg., Detroit, $6,498; and Contr. 2, to B. C. Lord, Clayton, $22,736. Noted June 30.

Michigan—State Hy. Dept., Lansing, constructing R. B. 110202, one 30 ft., 35 ft. and 50 ft. spans, Contr. 1, to McClintic Marshall Co., 1242 Book Bldg., Detroit, $4,072, and Contr. 2, to W. Marshall & Son, Grand Rapids, $38,521; also R.B. 110204, C.I., 354 ft. long, to Willits Bros., Saginaw, $78,009, both 30 ft. roadway, Berrien Co. Grand total $120,603.

Wis., Baraboo—State Hy. Comn., Madison, constructing Broadway St. Bridge, 8,350 lb. structural and 261,160 lb. reinforcing steel, etc., here, to A. Larson, Eau Claire, $62,952.

Wis., Oconto—Rein.-con. and steel bridge, on Brazeau Ave., to Schuster Constr. Co., Denmark, $39,242. Engrs. est. $39,000.

Kan., Winfield — See "Streets and Roads."

N. D., Watson City—State Hy. Comn., Bismarck, two 168 ft. through truss and one 50 ft. plate girder approach spans, over Missouri River, near here, to Minneapolis Bridge Co., 701 Metropolitan Life Bldg., Minneapolis, Minn. Approximately $115,000.

Wyoming—State Hy. Comn., Cheyenne (**F.A.P. means Federal Aid Project**), constructing 5 timber bridges on Gillette-Arvada Rd., F.A.P. 181-B, to T. D. Cain, Riverton, $32,134; and steel bridge over Big Horn River at South Thermopolis, F.A.P. 90 (reopened), to C. O'Neil, Platteville, Colo., $54,546.

Mont., Great Falls—State Hy. Comn., Helena, 216 ft. steel main and two 80 ft. concrete approach span bridge over Sun River, Cascade Co., to McGuire & Blakeslee, Great Falls, $57,795. Noted Mar. 10.

Tex., Brownsville — See "Streets and Roads."

Tex., Brownsville—Gateway Bridge Co., c/o R. B. Creager, pres., 6 span, 240 ft. steel and rein.-con. toll bridge across Rio Grande River, to C. J. Flenn, Brownsville, approximately $460,000.

Tex., Houston—Harris Co. 385 ft., 100 ft. and 80 ft. concrete slab bridges, across Hunting, Carpenter, Greens, Bayou, to C. K. Horton, 2202 Clay Ave., Houston, $71,543. Engrs. est. $62,000.

Tex., Lyford—Missouri Pacific Ry. Co., E. A., Hadley, ch. engr., Railway Exch. Bldg., St. Louis, Mo., 1 mi. timber piling bridge, 20 ft. near here, to Z. Richards, McAllister, Okla., approximately $110,000.

Tex., Quanah—See "Streets and Roads."

Arizona—State Hy. Comn., Phoenix, constructing Grand Canyon Bridge near Lee's Ferry, to Kansas City Structural Steel Co., 21st St. and Metropolitan Ave., Kansas City, Mo., $323,290 incl. engineering and contingencies.

Ont., Port Colborne—Dept. Pub. Wks., Ottawa, bridge over Welland Canal, here, to Hamilton Bridge Works Co., Ltd., Bay St. N., Hamilton, $368,250.

Ont., Welland—Dept. Pub. Wks., Ottawa, 2 bridges over Welland Canal, here, to Canadian Bridge Co., Walkerville, $739,591.

B. C., Wardner—Minister Pub. Wks., Victoria, substructure for bridge over Kootenay River, to Hodgson, King & Marble, 626 Pender St. W., Vancouver, $30,000. Noted July 7.

Dams

Proposed Work

Nev., Lovelock—See "Excavation, Drainage, Irrigation, Levee, River and Harbor."

Bids Desired

Tex., Columbus—See "Contracts Awarded."

B. C. Vancouver — "See Contracts Awarded."

Contracts Awarded

Tex., Columbus—Central Power & Light Co., c/o S. N. Udden, Frost Bldg., San Antonio, will build series rein.-con. dams to connect Colorado River, confining flood waters, which afterwards will be used for irrigating and generating electric power, near here, by day labor. $650,000. Private plans.

B. C., Vancouver—Greater Vancouver Water Dist. Bd., will construct 430 ft. concrete dam, 30 ft. high, in Seymour Creek Valley, by day labor. $150,000. E. A. Cleveland, Bekins Bldg., engr.

Railways

Bids Desired

British Columbia—See "Contracts Awarded."

Contracts Awarded

Texas—Southern Pacific Ry. Co., G. W. Boschke, ch. engr., 65 Market St., San Francisco, Calif., 27 mi. railway from Harlingen to Brownsville, here, to W. J. Harris Contg., Co., West Bldg., Houston. Noted Mar. 3.

Texas—Southern Pacific Ry. Co., G. W. Boschke, ch. engr., 65 Market St., San Francisco, Calif., 27 mi. railway from Harlingen to Brownsville, here, to W. J. Harris Contg. Co., West Bldg., Houston. Noted Mar. 3.

British Columbia — Canadian Natl. Ry. C. S. Gzowski, ch. engr., Montreal, Que., will extend 3,000 yd. new rails at Port Mann, by day labor. $30,000.

Argentine—Sept. 15 by Government State Railway, Administration Office, Buenos Aires, 450 mi. railway extensions. Address Argentine Embassy, 1806 Corcoran St., Washington, D. C., U. S. A.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Ark., Piggott—Sub. D. D. 21, St. Francis Drainage Dist. of Clay and Green Counties making preliminary plans levee and drainage ditches, etc. here. $45,000.

Tex., Eagle Pass.—Maverick Co., Water Impvt. Dist. 1, T. S. Wyche, secy., making plans and soon takes bids irrigating 70,000 acres land, and plans gravity system $2,000,000 or more. Noted July 28.

Tex., El Paso—El Paso Co. voted $100,000 bonds, levees, high water protection, etc. F. Wilson, El Paso, engr.

Tex., Fowlerton — La Salle - McMullen Counties Water Control & Impvt. Dist. 1, voted $35,000 bonds, preliminary surveys irrigation purposes. Address Secretary.

Tex., Galveston—Galveston Co., c/o J. M. Murch, aud., election soon $75,000 bonds, constructing canal. Address C. C. Washington, Galveston, co. engr.

Tex., McAllen—See "Unclassified."

Tex., Point Isabel—James & Dickenson, Brownsville, plans earth work and piling, here. $40,000. Private plans.

Nev., Lovelock—Lovelock Irrigation Dist. rejected bids earth fill dam and control works. Will readvertise. Noted June 30.

Calif., Patterson—West Stanislaus Irrigation Dist. voted $854,265 bonds, irrigation works, incl. pumps, motors, 7 buildings for pumps, transmission lines, concrete lined main laterals, canal, etc. W. F. Woolley, Paterson, engr.

Bids Desired

N. Y., Brooklyn—Aug. 10, by M. Cosgrove, comr. Docks, Pier "A," foot Battery Pl., North River, New York City, dredging in Jamaica Bay, Contr. 1904, channel from Mill to Paerdegat Basins and dredging at and filling in Canarsie pier, Brooklyn Boro.

N. Y., Dunkirk—Aug. 16, by H. J. Henderson, city clk. constructing inclosed channel and accessories for diversion of Hyde Channel here. Adv. E. N.-R. Aug. 4.

N. Y., New York—Aug. 11, by M. Cosgrove, comr. Docks, Pier "A," foot Battery Pl., constructing pier shed and bulkhead shed for Pier New 46, North River, Contr. 1885.

Louisiana—Aug. 16, by State Hy. Comn., Baton Rouge, constructing 5.582 mi. embankment on Hammond-New Orleans Highway, State Project 156-B, Unit 1, St. Charles Parish. N. W. Bowden, highway engr.

Ill., Lockport.—Aug. 11, by Clerk Sanitary District of Chicago, 910 South Michigan Ave., Main Chanel Wall, near here. Contract 3, 4,200 ft. concrete wall, etc. T. J. Crowe, pres.; adv. E.N.-R. Aug. 4.

Ark., Osceola—Aug. 9. by Bd. Comrs., Sub-Dist. 3 of Grassy Lake and Tyronza D.D. 9, Mississippi Co., clearing approximately 18 mi. drainage channels of Ditch 1. Morgan Eng. Co., Goodwyn Institute, Memphis, Tenn., engrs.

Okla., Tecumseh—Aug. 8, by C. E. Pettigrew, Pottawatomie Co. clk. improving Deer Creek D. D. 4, and bridges over ditch, 220.280 cu.yd. excav., 11.800 ft. wood piling and 29,460 ft. timber. $35,000. F. D. Brown, Shawnee, engr.

Que., Ruisseau LeBlanc—Aug. 11, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., constructing breakwater, here, Bonaventure Co.

Contracts Awarded

Minn., Hallock—Auditor Kittson Co., excavating 411,240 cu.yd. main ditch, to Union Drainage Co., Crookston, Minn., for Kittson Co. (Hallock) and Marshall Co. (Warren), at $0.085 per cu.yd. Noted July 7.

Arkansas—Comrs. Cache River D.D. at office H. Sloan, atty., Jonesboro, outlet to main ditch, incl. 2½ mi. main ditch, 400,000 cu.yd. excav. in Craighead, Jackson and Lawrence Counties, to Sternberg Dredging Co., 1706 Arcade Bldg., St. Louis, Mo.

Ark., Osceola—Bd. Comrs. Sub-Dist. 3 of Grassy Lake & Tyronza D.D.9, Mississippi Co., repairing and rebuilding approximately spoil bank levee along west side ditches, 125,000 cu.yd. excav., to Vollmer & Sons, Luxora, at $0.1393 per cu.yd. Engrs. est. $17,000. Noted June 30.

Tex., Houston — San Jacinto Trust Co., c/o G. Howard, Humble Bldg., excavation and piling work for 4 story (ultimately 23 story), 60 x 127 ft., rein.-con., stone and steel office building Main and Lamar Sts., to D. Hall, Cotton Exch., Houston, $71,500. Noted July 7 under "Buildings-Commercial."

Calif., Los Angeles—Los Angeles Co., 14,000 ft. rein.-con. Puddingstone channel, rectangular section, to J. C. Gist, 148 North El Dorado St., Arcadia, $194,400; also 3 earth fill type dams for same project, to H. W. Rohl, 727 West 7th St., $410,600.

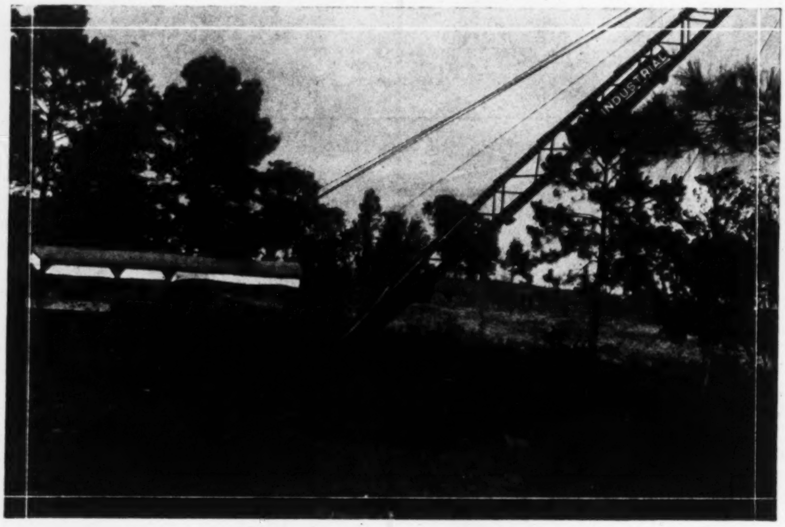
Ont., Port Arthur—Dept. Pub. Wks., Parliament Bldg., Ottawa, dredging in harbor, here, to Canadian Dredging Co., Port Arthur, $58,000. Engrs. est. $60,000.

Ont., Sault Ste. Marie—S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, dredging, here, to A. B. Roderick, A. and J. McLean and Soo Dredging Constr. Co., Ltd., Sault Ste. Marie. $136,000. Noted May 12.

Streets and Roads

Bids Desired

Maine—Aug. 16 by State Hy. Dept., Augusta, grading and bituminous macadam paving etc., 2.71 mi. Federal Aid Project, 106-A Poland; and graveling, etc. 0.85 mi. Federal Aid Project 98-C in Gouldsboro and 2.94 mi. Federal Aid Project 105-A, Anson, P. D. Sargent, ch. engr.



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Federal Reserve Building

San Francisco, Calif.
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Streets and Roads (Continued)

New Hampshire—Aug. 5, by State Hy. Dept., Concord, 3 in. 6 in. gravel paving 12,650 ft. Central Rd. in Strafford and Bennington. $30,000. O. M. Janes, Northwood Narrows, engr.

Massachusetts—Aug. 9, by Dept. Pub. Wks., Boston, bituminous macadam paving 1,700 ft. highway in Rutland; gravel with bituminous surface, treatment 4,846 ft. in New Braintree; and 2 rein.-con. bridges and approaches on highway in Bolton and Lancaster, W. F. Williams, comr.

Mass., Medford (br. Boston)—Aug. 5, at Mayor's Office, 10 High St. warrenite bitulithic paving 2,200 sq.yd. Boston Ave. and 1,800 sq.yd. Water St. City Engineer, 50 Swan St.

N. Y., Long Island City—Aug. 8, M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and granite block paving 45th (Honeywell) St., and sheet asphalt on concrete paving 129th St.; and grading, etc. Simonson Pl., Jamaica and Stanley Aves., Virginia, Honeywell, 41st and 61st Sts.

N. Y., St. George—Aug. 10, by J. A. Lynch, pres. Richmond Boro, Boro Hall, constructing concrete sidewalk on Morrison Ave. and grading and bituminous macadam paving Courtland St. and Neal Dow Ave.

New Jersey—Aug. 22, by State Hy. Comn,. Trenton, grading, sewers, and 8 in. rein.-con. paving, etc. 55,623 sq.yd. Route 1, Sect. 7-A, Mercer Co. and 42,810 sq.yd. Route 18 (north) Sect. 5, Bergen Co. A. L. Grover, ch. clk.; adv. E. N.-R. Aug. 4.

N. J., Somerville—Aug. 17, by Bd. Freeholders Somerset Co., Court House, grading, curbing and 8 in. rein.-con. paving 12,900 sq.ft. Sect. 3, New Jersey Turnpike, here. O. Smith, Jr., co. engr. adv. E. N.-R. Aug. 4.

Pennsylvania—Aug. 12, by State Hy. Comn., Harrisburg, one course rein.-con. paving, etc. 97,188 ft. 21 projects in 18 counties. J. L. Stuart, secy. highways.

Pa., Altoona—Aug. 16, by Supers. Blair Co., Logan Twp., improving Ivyside Dr., Penn and Park Aves. 2,250 cu.yd. grading, 1,000 sq.yd. concrete sidewalks, 4,800 ft. curb and gutter and 5,650 sq.yd. asphalt paving. A. Richards, City Hall, engr.

Delaware—Aug. 24, by State Hy. Dept., Dover, grading and concrete paving 5,900 cu.yd. Contr. 87, 1,650 cu.yd. Contr. 93, 6,200 cu.yd. Contr. 92 and 400 cu.yd. Broadkill Bridge Approaches, Contr. 53; adv, E. N. R. Aug. 4.

Maryland—Aug. 9, by State Hy. Comn., Baltimore, concrete paving 1 mi. Contr. F-100 Frederick Co.; 2 mi. Contr. M-81, Montgomery Co.; 0.5 mi. Contr. P-78, Prince George Co.; 2.7 mi. Contr. S M-38, St. Marys Co.; and 1 mi. Contr AA.-51, Anne Arundel Co. J. N. Mackall, chn.

Maryland—Aug. 16, by State Hy. Dept., Baltimore, paving, etc. Contr. P-76, Prince Georges County, Cont. H-56, Harford Co., Contr. AA-31, Anne Arundel Co. and Contr. Ch-45, Charles Co. J. N. Mackall, chn. adv. E. N.-R. Aug. 4.

Md., Baltimore—Aug. 10, by Bd. Awards, paving various streets as listed in Contracts 422 and 423, S. Purcell, City Hall, hy. engr.

Virginia—Aug. 11, by State Hy. Comn., Richmond, grading 8 mi. Project SI39C and S162DC; grading and bridging 3 mi. S494A; and bituminous macadam paving 3 mi. S505. C. S. Mullen, ch. engr.; adv. E. N.-R. July 28.

W. Va., Charleston—Aug. 9, by Kanawha Co Court, concrete paving 0.83 mi. Ruth-Rabel Mt. Rod. Project 197, Charleston-Hamlin Route, Washington Dist. R. N. Moulton, clk.

W. Va., Wheeling—Aug. 10, by Ohio County Court, grading, etc. 1.7 mi. Glenns Run and Cherry Hill Rds. $35,000 and Chaplin St. extension $45,000. A. S. Bell, Wheeling, co. engr.

Florida—Aug. 16, at office State Rd. Dept., Tallahassee, **(P. means Project and R. Road)** grading, etc. 17.75 mi. P.518 and 13.19 mi. P.535, both R.5-A, Lafayette Co.; 6.23 mi. P.624, R.50 Hamilton Co.; 14.91 mi. P.706-BR.28, Putnam Co.; 7.98 mi. P.708 R.11, 9.65 mi. P.722, R.11, and 8.83 mi. P.722, R.43, all Jefferson Co.; 11.76 mi. P.723, R.66, Leon Co.; and 12.23 mi. P.763, R.50, Suwannee Co. J. L. Cresap, state engr.

Alabama—Aug. 15, by State Hy. Comn., Montgomery, **(F. A. P. means Federal Aid Project and S. P., State Project)**, concrete, bituminous concrete and rock asphalt on concrete paving, etc. roadway in Attalia Twp., S. P. 231, Etowah Co.; Kentucky rock on Puzzolan concrete paving, etc. 11,860 sq.yd. roadway in Luverne Twp., S. P. 223, Crenshaw Co.; bitulithic paving, etc., 9,370 sq.yd. roadway in Talladega Twp., S. P. 230, Talladega Co.; concrete paving, etc. 10,413 sq.yd. roadway in Guin Twp., F. A. P. 173-A Marion Co., 3,600 sq.yd. roadway in Hartford Twp., S. P. 229, Geneva Co., 4,792 sq.yd. highway in Dadeville, S. P. 232, Tallapoosa Co., and 6,700 sq.yd. roadway in Brundidge Twp., S. P. 210, Pike Co.; also gravel surfacing 24,000 cu.yd. roadway between Uniontown and Newbern, F. A. P. 141-B, W. Finnell, highways dir., Hale and Perry Counties.

Alabama—Aug. 19, by State Hy. Comn., Montgomery **(F. A. P. means Federal Aid Project and S. P. State Project)** grading, etc. approximately 13.24 mi. highway between Demopolis and Moscow, F. A. P. 188-B, Marengo Co.; grading and paving, etc. 3.885 mi. highway between Montgomery and bridge over Alabama River, at Reeses Ferry. F. A. P. 194 Montgomery Co., 10.77 mi. highway between Lowndes Co. and Greenville Twp., Butler Co.. F. A. P. 101, Butler Co. (reopened), 6.865 mi. highway F. A. P. 148, Autauga and Montgomery Counties, 16.606 mi. roadway between Birmingham and Warrior, F. A. P. 149 and 2.42 mi. highway, F. A. P. 147 Jefferson Co.; also 10.582 mi. highway between Theodore and Grand Bay, F. A. P. 146-B, Mobile; paving 14.93 mi. highway near Garden City, F. A. P. 151, Cullman Co., W. Finnell, highways dir.

Alabama—Aug. 23, by State Hy. Comn., Montgomery **(F. A. P. means Federal Aid Project and S. P. State Project)** grading, etc. approximately 8 mi. road between Pell City and Cooks Springs, F. A. P. 164-B, St. Clair Co. 3 mi. highway north and south of Cullman Twp., F. A. P. 151 Cullman Co. Revision, 8.46 mi. road between Decatur and Courtland, F. A. P. 187 Morgan and Lawrence Counties, 16.22 mi. road between Center and Georgia state line, S. P. 118 Cherokee Co., and 11 mi. road between Waverly and Camp Hill, F. A. P. 160-A, Tallapoosa Co.; clearing, etc. road between Guin and Hamilton, Marion Co., F. A. P. 173-B Marion Co., 5.33 mi. highway between Collinsville and Etowah Co. line, F. A. P. 192 Dekalb Co.; 11.435 mi. road between Athens and Madison Co. line, F. A. P. 171-A Limestone Co., and 5.75 mi. highway between Sulligent and Mississippi line, S. P. 155, Lamar Co.; surfacing 23.34 mi. S. P. 62, Cleburne Co.; also constructing bridges on roadway between Guin and Hamilton, F. A. P. 173-B-C, Marion Co. W. Finnell, highways dir.

Alabama—Aug. 25, by State Hy. Comn., Montgomery **(F. A. P. means Federal Aid Project and S. P. State Project)** grading, etc. approximately 18.81 mi. roadway between Union Springs and Barbour Co. line, F. A. P. 191 Bullock Co., 6.57 mi. highway between Mobile Co. line and Fruitdale, S. P. 79-B Washington Co., 12.14 mi. road S. P. 136-A, and 18.45 mi. roadway between Andalusia and Opp, S. P. 129-B, Covington Co., 15.91 mi. highway between Foley and Loxley, F. A. P. 193 Baldwin Co., 18.15 mi. highway between Uniontown and Demopolis, F. A. P. 188-A, Perry, Marengo and Hale Counties, and 9.72 mi. highway between Ozark and Enterprise, S. P. 130-A, Dale Co.; surfacing approximately 14.06 mi. road between Seale and Girard, F. A. P. 178, Russell Co., and 22.4 mi. road between Greenville and Luverne, F. A. P. 172, Butler and Crenshaw Counties. W. Finnell, highways dir.

Ala., Birmingham—Aug. 22, by City Comn., 2 in. asphalt on 6 in. concrete paving 2 blocks Pearson and Steiner Aves. 20 ft. $3,750, 3 blocks Cliff Rd. 28 ft. $11,150, and 7 in. concrete paving, etc. 4 blocks 13th Ave. S. and 33rd St. S. 25 ft. $15,200. A. J. Hawkins, city engr.

Ala., Birmingham—Sept. 1, by City Comn., grading, curbing, walks and 2 in. asphalt on 5 in. concrete paving 5 blocks 17th Pl. $32,650, 6 blocks Ave. G, Ensley $25,000, and 5 blocks Ave. H, Ensley $21,000, all 30 ft. wide, and 7 blocks 5th Ave. W., 26 ft. $29,650; also curbing, guttering, walks and 2 in. asphalt on 6 in. concrete paving 4 blocks, 4th Ave. S, 50 ft. $30,000, and 1 block 6th Ave., 40 ft. $7,000. A. J. Hawkins, engr.

Miss., Greenville—Aug. 8, by Bd. Supervs. Washington Co., concrete paving 50,594 sq.yd. Federal Aid Project 59. H. C. Dietzer, Jackson, highway engr.

Miss., Kosciusko — Aug. 12, by Bd. Supervs. Attala Co., gravel on rock surfacing 9.744 mi. Federal Aid Project 37-A; also 343 tons sand clay f.o.b. cars Kosciusko. H. C. Dietzer, Jackson, state highway engr.

Miss., Oxford—Aug. 18, by Bd. Supervs. Lafayette Co., grading and sheet asphalt or warrenite bithulithic on concrete paving 11,339 sq.yd. Federal Aid Project 66-A and 97-A. H. C. Dietzer, Jackson, state highway engr.

La., Natchitoches—Aug. 23, by O. F. Himel, city secy.-treas., City Hall, grading, curbing, guttering and rein.-con. paving 30,190 sq.yd. Cypress Ave., St. Dennis, New 2nd and Jefferson Sts. C. D. Evans, 414 Levy Bldg., Shreveport, consult. engr.

Tennessee—Sept. 16, by State Hy. Comn., Nashville, approximately concrete paving 45 mi., grading 95 mi. and constructing 8 concrete bridges. $2,750,000. C. N. Bass, comr.; adv. E. N.-R. Aug. 4.

O., Akron—Aug. 8, by W. F. Peters, dir. Pub. Serv., grading, curbing and vitr. brick paving 8,400 sq.yd. Rhodes Ave. $127,500, 7,300 sq.yd. East South St., $48,300, 4,900 sq.yd. Firestone Blvd. N. $55,700, 4,130 sq.yd. Whittier Ave. $25,000; 2,170 sq.yd. Princeton St. $16,800; also grading, curbing and vitr. brick paving 10,300 sq.yd. and concrete paving 165 cu.yd. Bower and Raymond Sts. $77,400, vitr. brick paving 2,450 sq.yd. and concrete paving 140 cu.yd. Delia Ave. $27,000; and curbing, guttering, walks and cindering 1,300 cu.yd. Neptune Ave. et al. $15,700. E. A. Kemmler, Municipal Bldg., engr.

O., Canton—Aug. 10, by Bd. Control, brick paving, etc. approximately 1 mi. Cherry Ave. N. E. 50 ft.; and improving 25th St. N. W. from Market Ave. N. to west corporation line. $50,000 each. W. E. Sarver, City Hall, engr.

O., Maple Heights (br. Cleveland)—Taking bids paving, etc. 3 streets. To exceed $25,000. C. W. Courtney, 1770 East 11th St., Cleveland, engr.

O., Wauseon—Aug. 9, by G. E. Gehring, city clk., grading and brick or bituminous concrete paving, etc. 13,275 sq.yd. Clinton St. from Jefferson to Depot Sts. $28,700. G. Champe, 2363 Robinwood Ave., Toledo, engr.

Ind., Marion—Aug. 12, by Bd. Comrs. Grant Co., grading and asphalt paving, etc. George Leverich Rd., Van Buren Twp.

Ind., Newport—Aug. 11, by Bd. Comrs. Vermillion Co., M. Lewis, aud., constructing John D. Todd et al highway in Eugene Twp. $70,025.

Ind., Princeton—Aug. 13, by Bd. Comrs. Gibson Co., constructing Erastus Burkett et al Rd., Montgomery Twp. $28,645. A. M. Johnson, aud.

Michigan—Aug. 11, by H. C. Fleming, resident engineer, Grand Rapids, concrete paving 6.151 mi. FO 59-3, Contr. 1, Montcalm Co., 20 ft., for State Hy. Dept., Lansing.

Michigan—Aug. 12, by H. C. Fleming, resident engr., Grand Rapids, concrete paving 2.231 mi. Mo 41-15 Contr. 1, Kent Co., for State Hy. Dept., Lansing.

Michigan—Aug. 16, by A. R. Schaefer, resident engr., Newberry, graveling 5 mi. 048-4, Contr. 1, and 5.09 mi. 048-4C-1, Luce Co., both 18 ft., for State Hy. Dept., Lansing.

Michigan—Aug. 17, by G. D. Tramp, resident engr., Crystall Falls, concrete paving 1.849 mi. FO 36-13 Contr. 1, Iron Co., 20 ft., for State Hy. Dept., Lansing.

Michigan—Aug. 17, by R. W. Roberts, resident engr., 504 Eddy Bldg., Saginaw, constructing F025-4, Contr. 3, Genesse Co., 20 ft., for State Hy. Dept., Lansing.

Michigan—Aug. 23, by G. H. Greene, resident engr., Alpena, constructing 8.856 mi. FO16-13 Contr. 3 mi., Cheboygan Co., for State Hy. Dept., Lansing.

Michigan—Aug. 26, by R. W. Roberts, resident engr., 504 Eddy Bldg., Saginaw, constructing 12.379 mi. FO29-17 Contr. 1, Gratiot Co., for State Hy. Dept., Lansing.

Mich., Hersey—Aug. 10, by H. G. Oakes, res. engr., Cadillac, concrete paving 0.684 mi. MO.67-21, Contr. 1, Osceola Co., 20 ft. for State Hy. Dept., Lansing.

Wisconsin—Aug. 9, by State Hy. Comn., Court House, Rhinelander. graveling, etc. 6,723 cu.yd. Rhinelander-Monico Rd., Federal Aid Project 436-A; and 720 cu.yd. Merrill-Woodruff Rd., Federal Aid Project 431-B, both Oneida Co.; also 5,288 cu.yd. Prentice-Park Falls-Mellon Rd., Federal Aid Project 405-C. F. M. Sergeant, div. engr.

Wis., Oconto—Aug. 9, by city, O. Neeuwsen, clk., concrete or vibrolithic concrete paving Smith, Brazeau and Chicago Sts. $36,000. W. B. Hall, City Hall, engr. Former bids rejected.

Minnesota—Aug. 16, by State Hy. Comn., St. Paul, concrete paving approximately 118,000 sq.yd. State Project 63-22, Divs. B and D, Federal Aid Project 383, north

Streets and Roads (Continued)

and south of New Brighton. Dept. Highways, 1246 University Ave., St. Paul, engrs.

Kan., Independence—Aug. 25, by Clerk Montgomery Co., grading, concrete or brick surfacing 3.733 mi. Federal Aid Project 70-A, 18 ft.; and 4.524 mi. Federal Aid Project 84-A 18 ft. J. E. Courtright, Independence, engr.

Kan., Erie—Aug. 12, by L. R. Stanley, Court House, clk. Neosho Co., grading, chats surfacing, bridging, etc., 8.55 mi. Federal Aid Project 308, Sect. B, C and D on Kansas Project 49, 28 ft. C. P. Donald, Court House, engr.

Kan., Kansas City—Aug. 18, by Clerk Wyandotte Co., grading and concrete surfacing, etc., 52,586 sq.yd. Kansas Project 98. O. K. Williamson, Kansas City, engr.

Kan., Kansas City—Aug. 18, by Clerk Wyandotte Co., concrete paving, etc. 72,586 sq.yd. Federal Aid Project 98. O. K. Williamson, Kansas City, co. engr.

Kan., Marysville—Aug. 9, by Marshall Co., grading 2.024 mi. Project 73-A, U. S. Road 36.

Mo., St. Louis—Aug. 16, by Bd. Pub. Serv., 208 City Hall, vibrolithic concrete paving 4,435 sq.yd. Ecoff Ave. $24,000; rein.-con. paving, etc. 1,825 sq.yd. Harney St. $11,000; concrete paving, etc. 300 sq.yd. Delor St. $10,720; asphaltic concrete paving, etc. 1,075 sq.yd. Hereford St. $7,000, and 1,150 sq.yd. Oxford Lane $7.400; brick on concrete paving 4,005 sq.yd. Macklind Ave. $20,320, and 3,590 sq.yd. Elias St. $30,320; warrenite paving etc. 1,630 sq.yd. Reber Pl., $13,800; recut granite block paving 2,610 sq.yd. 14th St. $17,480; and warrenite bitulithic paving 3,240 sq.yd. Bradley St. $35,000, 4,315 sq.yd. Kingsighway between Forest Park and Manchester Ave. $34,520, and 5,600 sq.yd. Kingshighway between Scott Ave. and Forest Park $44,480. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Aug. 23, by Bd. Pub. Serv., 208 City Hall, constructing 100,000 cu.yd. earth embankment for approaches of Delmar Blvd. Viaduct over Wabash R.R. track, between Hamilton and Rosedale Aves. $80,000. L. R. Bowen, 301 City Hall, engr.

Tex., Abilene—Aug. 15, by State Hy. Engineer, Austin, concrete paving 10.487 mi. Highway 30, Taylor Co., $270.000, W. J. Van London, Abilene, engr. 15.62 mi. Highway 7, Fairfield Co. M. B. Hodges, Fairfield, res. engr. $440,000, 10.75 mi. Highway 43, Palestine Co. $265,000. E. W. Davis, Palestine, co. engr.

Tex., White Deer—Aug. 10, by City, c/o B. McCoy, secy. and J. C. Jackson, mayor, 3 in. brick on 5 in. concrete, or 2½ in. brick on 5 in. concrete or plain concrete and 2 in. bitulithic on 5 in. concrete paving 7,889 sq.yd. various streets. $32,000. J. S. Harrison, Court House, Panhandle, engr.

Okla., Clinton—Aug. 9, by W. A. Shouse, city clk., grading, curbing and concrete paving 8,860 sq.yd. Dist. 24. $28,390. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Cushing—Aug. 8, by F. E. Hough, city clk., grading, curbing and concrete paving 9,880 sq.yd. in Dist. 37. $28,879. G. Estey, Cushing, engr.

Okla., Holdenville—Aug. 8, by J. Kirk, city clk., grading, curbing and concrete paving 7,700 sq. yd. in Dist. 24. $28,227. C. Edge, Holdenville, engr.

Okla., McAlester—Aug. 8, by H. R. McDonald, city clk., grading and concrete paving 9,600 sq.yd. Dist. 36, $29,877. F. Frazier, McAlester, engr.

Ont., Hamilton — See "Contracts Awarded."

Ont., Wiarton—See "Contracts Awarded."

Contracts Awarded

Vt., Brattleboro—State Hy. Dept., Montpelier, rein.-con. paving 1.9 mi. highway, here, to C. Bianchi & Co., Inc., Fitts Bldg., Framingham, Mass., $84,109.

Massachusetts—Dept. Pub. Wks., Boston, rein.-con. paving 11,058 ft. highway in Holyoke, to D. O'Connell & Sons, 480 Hampden St., Holyoke, $73,171; gravel and bituminous macadam paving 3,648 ft. highway in Newbury, to R. S. Watkins, Amesbury $6,860, and 3,250 ft. in Blackstone, to M. L. Sullivan, Millville, $8,744. Grand total $88,775.

Mass., Amesbury — Asphalt repaving Congress St., to V. Guigli & D. Bernardi, Amesbury. Engrs. est. $25,000. Private plans.

Mass., Boston—Sheet asphalt or bitulithic paving Beacon St. Ward 5, to A. De Stefano, 288 Summer St., $30,551. Noted June 30.

Mass., West Roxbury (sta Boston)—Reconstructing Oakland and Ashland Sts. as highway, here, to W. J. Barry, Rosindale, Engrs. est. $25,000.

Conn., Ansonia—Bituminous macadam paving Beaver, Canal and Mott Sts., to D. V. Frione & Co., 105 Ward St., New Haven, $35,700. Engrs. est $40,000.

Conn., Hartford—Concrete and sheet asphalt paving Chapel, Hudson, Vine and Windsor Sts., to E. Balf Co., 14 Haynes St., $126,799. Engrs. est. $148,000. Noted May 19.

Conn., Meriden—City Bd. Educ., grading and construction work at Huntington School, to D. Mongillo, 52 High St., Southington; at Jefferson and Trumbull Schools, to W. J. Montgomery & Co., 72 Canner St., New Haven; and at Lincoln School, to Robison & Powers, 16 West Main St., Meriden. Engrs. est. $30,000. Noted Jan. 20.

New York—A. W. Brandt, comr. Highways, Dept. Pub. Wks., Albany, grading 4.25 mi. Jones Beach Causeway, Nassau Co., to R. A. Perry, Woolworth Bldg., New York City, $272,547. Engrs. est. $373,844. Noted July 14.

N. Y., Brooklyn—Park Bd., Dept. Parks, Arsenal Bldg., Central Park New York City, grading 66th St. from 7th to 8th Aves., here, to J. D. Norton, 20 Sterling Pl., $21,580. Noted July 28.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to A. Paino, 9215 Union Hill, Jamaica, sewer in 114th St., $643,538; to Kew Contg. Co., Mineola, in Middleburg Ave. $8,841, Potter Ave. $17,687, Cypress Ave. 650, in Hicks Pl. $4,332, Queens Blvd., $7,991, Roosevelt Ave. from 58th to 60th Sts. $7,659, Roosevelt Ave. from 69th St. to Myers Ave. $1,834, Roosevelt Ave. from 92nd to Junction Blvd. $20,316, 65th St., etc. $18,006 and Trimble Ave. $4,283; to G. A. Everett, 13030 109th St., Richmond Hill, 45th Ave. $61,292; to Peace Bros., 57 North Lawrence St., Flushing, Roosevelt Blvd. from Rombouts Pl. to 76th St. $7,406, and to J. H. Johnson, 2nd St., Polk Ave., etc., $39,486. Grand total, $843,321. Noted July 7.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., repairing wood block, granite block and Oak Key block paving in railroad area, to Casper Helbrock Co., 633 Wales Ave., $60,752. Noted July 14.

N. J., Trenton—Granite block paving 7,500 sq.yd. New York Ave., to Agobitti Bros., Division St., $62,391; sheet asphalt paving 12,000 sq.yd. Stuyvesant Ave. and 5,250 sq.yd. Plum St., to Union Paving Co., 123 South 21st St., Phila., Pa. $72,794 and $26,761 respectively. Grand total $161,946.

Pennsylvania—State Hy. Comn., Harrisburg **(A. means Application and R. Route)**, rein.-con. paving, etc. 19,130 sq.yd. R. 128, Lancaster Co., to Union Paving Co., 123 South 21st St., Phila. $84,636, 44,770 sq. yd. R. 31, Perry and Juniata Counties, to Lord Constr. Co., Hastings $224,192, 17,452 sq. yd. R. 117, Sect. 6, Fayette Co., to Brooke & McIntyre, Uniontown $99,982, 12,508 sq. yd. R. 140, Dauphin Co., to Continental Contg. Co., Knickerbocker Bldg., Baltimore, Md. $58,581, 22,483 sq.yd. A. 4274, Washington Co., to D. W. Challis & Sons, Sewickley $120,947 and 30,602 sq.yd. A. 4564, Lehigh Co., to Dalton Bros., Paoli $134,983; also grading, etc. 28,671 cu.yd. R. 63, Indiana Co., to Milliron Constr. Co., Milliron Bldg., DuBois $38,169. Grand total $761,490. Noted June 30.

Pa., Phila.—Dept. City Transit, relaying existing granite blocks on concrete paving 2,565 ft. Broad St. between Venango and Butler Sts., and Bellfield and London Aves., 69 ft., to Eastern Asphalt Co., Penna. Bldg., $88,284. Noted July 14.

Pa., Phila.—Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., granite block on concrete paving with mastic filler 2,135 ft. Broad St., 69 ft. Contr. 168, to United Paving Co., Widener Bldg., $67,834.

Maryland—State Rd. Comn., Baltimore, graveling 1.1 mi. road from end P-65 to Piscataway, Contr. P-74, Prince George Co., to Southern Maryland Constr. Co., 14 East Lexington St., Baltimore, $16,748; macadam paving 1 mi. road from Emmorton to Van Bibber, Contr. H-52, Harford Co., to T. B. Gatch, Towson, $18,593; concrete paving 1.1 mi. road between Catch Penny and White Haven, Contr. WI-44, Wicomico Co., to P. D. Phillips & Bros., Salisbury $20,987; 1 mi. road from Contr. F-88 to Rocky Ridge Contr. F-100, Frederick Co., to M. J. Grove Lime Co., Lime Kiln $32,984, and 0.13 mi. road between Rohdesdale and Brookview, Contr. D-2-A, Dorchester Co., to Holt Constr. Co., Federalsburg $3,104; sheet asphalt paving 0.4 mi. road along Gwynne Falls Parkway, Contr. B-70, Baltimore Co., to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., Baltimore, $59,355, concrete shoulders on 0.5 mi. road through Berlin, Contr. W-5-D, Worcester Co., to Hannemann-Burroughs Co., Salisbury $3,379, 5 mi. road between Frostburg and Midland, Contr. 48-A, Alleghany Co., to Kelley Constr. Co., Clarksburg, W. Va., $46,010. Grand total $201,160. Noted July 7.

Md., Baltimore—Concrete paving alleys listed in Contr. 125, to Aiello Constr. Co., 4th and Gough Sts. $16,163, and 17,190 sq yd streets in Contr. 412, to Ward & O'Connell, 3114 Presbury St. $36,946; sheet asphalt paving 12,520 sq.yd. streets in Contr. 413, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $59,535. Grand total $112,644.

Md., Baltimore — Bd. Awards, concrete paving 18,550 sq.yd. streets listed in Contr. 414, to J. Lavezza, 911 Eastern Ave., $43,729; sheet asphalt paving 12,560 sq.yd streets listed in Contr. 415, to P. Flanigan & Sons, Harford R. and B. & O. R.R. tracks, $56,632; grading and concrete paving footways listed in Footway Contr. 103, to A. Apicella, 2907 McElderry St., $26,125. Grand total $126,486. Noted July 7.

W. Va., Summersville—Nicholas Co., and State Hy. Comn., Charleston, grading, etc. 7.65 mi. Twin Churchs-Calvin Rd., to Cavin & Co., Charleston, $100,045.

W. Va., Middlebourne—Tyler Co., grading, etc. 8.5 mi. Projects 1, 2 and 3, to Truck Transportation Co., 2412 Main St., Wheeling, $42,343.

Ga., Cartersville—T. A. Upshaw, city clk., City Hall, 6 in plain concrete paving 2 blocks Leake St., between Irwin and Tennessee Sts., to Pittman Constr. Co., Rhodes Bldg., Atlanta.

Ga., Cedartown—J. C. Walker, city clk., 6 in. concrete paving, etc. 13,000 sq.yd. Callegr St., to Whitley Constr. Co., La Grange, $35,141.

Ga., Rome—S. S. King, city mgr., Warrenite bitulithic on 4 in. concrete paving, etc. Cherokee, Myrtle and East 8th Sts., to Atlantic Bitulithic Co., Munsey Bldg., Wash., D. C., $17,261; and 6 in. concrete paving, etc. Klassing and West 7th Sts., to J. L. Watson, 104 Klassing St., $9,328.

Ga., Swainsboro — Mayor and Council, asphalt on concrete paving, etc. 10,000 sq.yd. various streets, to Powell Paving Co., Wachoria Bank Bldg., Winston-Salem, N. C.

Ga., Valdosta—Curbing, guttering and concrete paving 5,500 sq.yd. Floyd, Jones, Toombs and June Sts., to Dixon Contg. Co., Valdosta.

Florida—State Rd. Dept., Tallahassee, grading, etc., 12.09 mi. road 28 from Keystone Heights of Florahome, Putnam Co., to Franklin Constr. Co., Apalachicola, $76,971.

Ala., Bessemer—For curbing, guttering, walks and 2 in. asphalt on 6 in. concrete paving 10 blocks 4th Ave., here, and various streets in suburb of Jonesboro, to Sullivan, Long & Hagerty, Amer. Trust Bldg., Birmingham, $56,768. Engrs. est. $60,200.

Ala., Birmingham—City Comn., **(e.e. means engrs. est.)** 2 in. asphalt on 6 in concrete paving 5 blocks 77th St. and 5th Ave. N., 40 ft., to Newell Constr. Co., 3828 Ave. A, $35,782 e.e. $53,200, and 3 blocks Cullman Ave., 13th and 31st Sts., 27 ft., to H. N. Bowdry, Alabama Power Co. Bldg., $12,731 e.e. $15,450; 2 in. asphalt on 5 in. concrete paving 4 blocks 1st Ave. S., 27 ft., to Independent Paving Co., Amer. Trust Bldg., $12,625 e.e. $13,500, also 4 blocks 47th St., Ensley and 6 in. concrete paving 2 blocks 13th Ave. S., both 27 ft., to Southern Roads Co., Pioneer Bldg., $21,009 and $5,964 respectively e.e. $27,000 and $7,450 respectively and 1 block McMillan Ave. and Montevallo Rd., 27 ft., to Dunn Constr. Co., Lincoln Life Bldg., $5,646 e.e $6,875; 5 in. concrete paving 200 ft. 46th Pl., Ensley, 18 ft., to C. A. Shepherd, 316 North 74th St., $299 e.e. $300; also 4 ft. cement walks on 3 blocks 29th St., to Concrete Serv. Co., Amer. Trust Bldg., $1,986 e.e $2,500. Grand total $96,042.

Miss., Belzoni—Humphreys Co., grading, bridging and concrete paving 4.724 mi. Federal Aid Project 179-C, to Lawrence Constr. Co., 213 Lamar Life Bldg., Jackson, $33,171. Noted June 30.

Miss., Biloxi—Harrison Co., Gulfport, grading and 2 in. warrenite-bitulithic on concrete paving Pineville Rd., to Southern Paving Co., Volunteer Life Bldg., Chatta-

Streets and Roads (Continued)

nooga, Tenn., $31,693; and Porter Ave., to Baird Eller Constr. Co., Nichol Bldg., Nashville, Tenn., $11,924. Noted June 30.

Miss., Brookhaven—City Council, grading paving West Monticello, West Court and Cherokee Sts., to Dunn Constr. Co., Jackson, $35,441.

Miss., Jackson—Grading and concrete paving Lamar St. from Pearl to Pascagoula Sts., to McGee & Wetmore, Jackson, $58,486.

Ala., Birmingham—Bd. Revenue Jefferson Co., concrete paving ¼ mi. Bessemer-Cedar Hill Cemetery Rd., to Morgan Hill Paving Co., Woodward Bldg., $10,855; engrs. est. $11,500; also 6 in. concrete paving, etc. 5/16 mi. Old Springville Rd., to Southern Roads Co., Pioneer Bldg., $15,015, engrs. est. $16,100, both 18 ft. wide.

Tenn., Dyersburg—Concrete paving various streets, to W. R. Aldrich Constr. Co., Dyersburg, approximately $34,000. Noted Jan. 27.

Ohio—G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, surfacing, etc. roadways in Harrison, Belmont and Carroll Counties, to Trumbull Constr. Co., Warren, $22,562, roadways in Clark Co., to Ohio Rd. Impvt. Co., 28 East Broad St., Columbus, $10,928, roads in Columbiana Co., to Allied Products Co., 9210 Holton St., Cleveland, $6,642, roads in Guernsey Co., to T. D. Van Camp, Columbus, $8,183, roads in Logan Co., to C. B. Weymouth, Bellfontaine, $11,763; and roads in Seneca Co., to L. Dehmer, Tiffin, $8,450. Grand total $68,528. Noted July 14.

Ohio—G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, surfacing, etc. roadways in Harrison, Belmont and Carroll Counties, to Trumbull Constr. Co., Warren, $22,562, roadways in Clark Co., to Ohio Rd. Impvt. Co., 28 East Broad St., Columbus, $10,928, roads in Columbiana Co., to Allied Products Co., 9210 Holton St., Cleveland, $6,642, roads in Guernsey Co., to T. D. Van Camp, Columbus, $8,183; roads in Logan Co., to C. B. Weymouth, Bellfontaine, $11,763; and roads in Seneca Co., to L. Dehmer, Tiffin, $8,450. Grand total $68,528. Noted July 14.

Ohio—G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, grading and bituminous macadam paving 1.581 mi. Sect. "S" Chagrin Falls Greenville Rd., Trumbull Co., to McDermott Constr. Co., Niles, $58,460.

Ohio—G. F. Schlesinger, dir. Hys. & Pub. Wks., grading and concrete paving 3.217 mi. Dennison-National Rd., Tuscarawas Co., to Lewis & Copeland Constr. Co., Lima, $90,462.

O., Akron—Comrs. Summit Co., grading and traffic bound slag paving Sect. "A" Stimson Rd. C. H. 209, to Gray & Quillen, Millersburg, $27,509.

O., Cleveland—Comrs. Cuyahoga Co., granite curbing and 2½ in. vitr. brick paving 34,800 sq.yd. East 185th St., to Gould & Maybach, 16311 Saranec Rd., $180,355.

O., Cleveland—Bd. Comrs. Cuyahoga Co., improving River Rd. 4, to Freshwater Constr. Co., Davis & Farley Bldg., $57,007.

O., Cleveland—Grading and paving with **(a)** brick **(b)** asphalt and **(c)** concrete **(1)** Fernway Dr. **(2)** Harvey Ave. **(3)** East 69th St. **(4)** Carroll Ave. **(5)** Hansom Court **(6)** Diese Ave. **(7)** St. Clair Ave. **(8)** East Blvd. **(9)** East 37th Pl. **(10)** Bellaire Rd. Sect. 1 **(11)** Bellaire Rd. Sect. 2 **(12)** Courtland Ave. **(13)** Elton Ave. **(14)** Lydain Ave. **(15)** Sedalia Ave. **(16)** West 42nd St. **(17)** West 39th St. **(18)** West 46th St. **(19)** West 95th St., to Enterprise Paving & Constr. Co., 8444 Bway. **(b1)** $22,764 **(b2)** $18,036 **(c3)** $7,001; to Baldwin Bros., 4500 Euclid Ave. **(a4)** $11,193 **(a5)** $6,114; to Gould & Maybach, 16311 Saranec Rd. **(b6)** $13,712 **(b7)** $73,904; to Rieley Bros., The Arcade **(b8)** $74,201 **(b9)** $4,472; to Roehl Bros., 7002 Dennison Ave. **(a10)** $158,471 **(a11)** $53,439 **(a12)** $12,083 **(c13)** $10,152 **(a14)** $13,605 **(b15)** $13,932 **(c16)** $2,492 **(a17)** $4,835 **(b18)** $4,835 **(a19)** $11,298. Grand total $518,539.

O., Cincinnati—Grading, guttering and concrete repaving, etc. 45,500 sq.yd. Miami Ave., to Brewer & Brewer, 215 Hazen Bldg., $164,758, engrs. est. $188,102; also surface treating, etc. 40 mi. various roads, to L. P. Cavett Co., Wyoming Ave., Wyoming, $24,975, engrs. est. $25,315.

O., Cincinnati — Grading, guttering and concrete repaving, etc. 45,500 sq.yd. Miami Ave., to Brewer & Brewer, 215 Hazen Bldg., $164,758, engrs. est. $188,102; also surface treating, etc. 40 mi. various roads, to L. P. Cavett Co., Wyoming Ave., Wyoming, $24,975, engrs. est. $25,315.

O., Cleveland—To Highway Constr. Co., Guarantee Title Bldg, asphalt paving George Ave. $7,863, Kingsford Ave. $9,787, East 138th St. $14,186, brick paving East 80th St. $11,362; to Freshwater Constr. Co., Davis & Farley Bldg., asphalt paving Muriel Ave. $11,671, Pensacola Ave. $10,416, and West 50th St. $8,548, to Bentley Bros., Hanna Bldg., Park Lane $5,200; to H. G. Herring, Wayside Rd., brick paving, etc. Kipling Ave. $20,591; also to Cleveland Trinidad Paving Co., Western Reserve Bldg., curbing and vitr. brick paving Miles Ave. $221,567. Grand total $321,191.

O., Columbus—W. H. Duffy, dir. Pub. Serv., grading, curbing, sewers, and 4 in. brick paving 31,800 sq.yd. High St., also grading and concrete paving, etc. 930 sq. yd. Wall St., to R. J. Dienst, 209 South High St. $139,255 and $2,265 respectively; grading, curbing and Mexican asphalt paving 4,750 sq.yd. Amazon Pl., to A. W. Burns Constr. Co., 424 Woodland Ave., $20,499. Grand total $162,019.

O., Columbus—O. Moore, clk. Franklin Co., grading and waterbound macadam paving 1.989 mi. Cooper Rd., Blendon Twp. 16 ft., to J. M. Snouffer, Dublin, $41,523. Noted July 14.

O., Euclid—To Floyd-Stein, Inc., Euclid, bituminous concrete paving, etc. Forest View Ave., $47,363; to V. Q. Galier, Rose Bldg., Cleveland, concrete paving, etc. Pasnow Ave. $19,581, Arbor Ave., $31,391, East 209th St. $15,864, and East 207th St. $17,552. Grand total $131,751.

O., Hudson—Curbing, guttering and asphalt on concrete paving Oviatt, College, Church and Division Sts., to McCourt Constr. Co., 369 South Main St., Akron, $112,096. Engrs. est. $110,000. Noted June 30.

O., Portsmouth—T. Edwards, city clk., widening, grading and asphalt paving, etc. ¾ mi. Sect. "A" Gallia St., 42 ft., to S. Monroe & Sons Co., Portsmouth, $52,514.

Indiana—State Hy. Comn., Indianapolis, 7 and 9 in. concrete paving 76,800 sq.yd. Terra Haute-Chicago Rd., State Rd. 41, Newton Co., to D. A. Y. Constr. Co., Franklin, $130,005.

Ind., Brownstown—Comrs. Jackson Co., concrete paving Atkins Rd. to U. R. Price & Co., Bloomington, $64,134; Vogel Rd. and Walnut St., to Hancock & Kieffer, Brownstown, $40,845 and $20,944 respectively; Ackerman Rd., to C. Mitchell, Freetown, $4,249. Grand total $130,172. Noted May 5.

Ind., Danville—Hendricks Co., to W. P. Rigdon, Danville, tar on waterbound macadam paving 10,674 ft. F. N. Wright Rd., Liberty Twp. $32,770, 13,250 ft. Alvan Stanley Rd. $34,262, and 2,671 ft. O. Hadley Rd., $6,553 both Marion-Clay Twp. line. Grand total $73,585.

Ind., Kokomo—Howard Co., paving Morgan Rd., to W. J. Ness, Frankfort, $47,647.

Ind., Monticello—White Co., improving May and Thomas Rds., to A. Holloway, Yeoman, $14,400 and $12,856 respectively; Martha Miller and C. Stone Rds., to G. A. Kellenburger, c/o county auditor, $9,568 and $11,896 respectively. Grand total $48,720. Noted June 30.

Ind., Plymouth—Marshall Co. concrete paving various roads, to H. Bell, Logansport, $97,390.

Ind., Portland—Jay Co., concrete paving Campbell Rd., to W. Isenbarger, Saratoga, $21,705; Haskell Rd., to G. W. Fenning & Son, c/o county auditor, $35,687; and Imal Rd., to W. Lindlen, Salem, $10,820. Grand total $68,212.

Michigan—R. R. Havens, resident engineer, 829 Greenwood Ave., Jackson, concrete paving 1.405 mi. Mo46-7, Contr. 7, Lenawee Co., to Deckerville Constr. Co., Deckerville, for State Hy. Dept., Lansing, $47,494. Noted July 14.

Michigan—State Hy. Dept., Lansing, G. W. Green, Alpena, constructing 7.547 mi. Mo60-4. Contr. 2, Montmorency Co., to L. M. Perry, Beaverton, $97,232.

Michigan—State Hy. Dept., Lansing, constructing Mo.8-8 Contr. 2, to W. Morgan, Allegan, $3,119; and MO 34-15, Contr. 2, to L. August, Lake Osessa, $23,738, both in Barry and Ionia Counties.

Mich., Detroit—Dept. Pub. Wks., City Hall, to Detroit Asphalt Paving Co., 909 Transportation Bldg., 3½ in. sheet asphalt on 8 in. concrete paving St. Jean Ave. $40,675, Lyford Ave. $28,540, Barham Ave. $47,163, Alma Ave. $5,179, Cedar Grove Ave. $7,950, Seymour Ave. $17,163, Fairport Ave. $11,110, Yacama Ave. $59,689, Medina Ave. $3,173, Wilfred Ave. $39,699, Cadieux Ave. $43,585, Strathmoor Ave. $16,885, Leland St. $10,882, Canfield Ave. $32,383, and Maiden Ave. $42,473; to M. R. Hanna Co., Ryan Rd. and Nevada St., Greiner Ave. $333,822, and Town Line Rd. $81,344; to Cooke Asphalt Paving Co., Penobscot Bldg., Kentucky Ave. $31,083; to Cleveland Trinidad Paving Co., 402 Hammond Bldg., St. Lawrence Ave. $15,422; to Dept. Pub Wks., Constr. Div. City Hall, Lappin Ave. $17,375; to Lennane & McIlvenne, 7777 West Chicago Blvd., $32,487. Grand total $918,082.

Mich., Detroit—Catholic Diocese, Washington Blvd., asphalt bound macadam paving 51,000 sq.yd. drives in Holy Sepulchre Cemetery, to Detroit Asphalt Paving Co., 909 Transportation Bldg., $132,900.

Mich., Ferndale (br. Detroit)—Grading, curbing, guttering and one course 8 in. concrete paving 30,000 sq.yd. various streets, to R. D. Baker, 1631 Elmhurst Ave., Detroit, $96,170.

Ill., Woodriver—W. E. Howden, engr., Court House, Edwardsville, grading, concrete paving, etc. 4.5 mi. Edwardsville-Alton and Woodriver-Bethalto Highways, Woodriver Twp., to W. F. Smith, Rentchler, Ind., for Madison Co., $112,000. Engrs. est. $125,000. Noted July 14.

Wisconsin—State Hy. Comn., Div. Office 8, 1st Natl. Bank Bldg., Superior, graveling, etc. 25,817 cu.yd. Federal Aid Project 372-A and B, Ruck and Barron Counties, to S. J. Groves & Sons, 306 Globe Bldg., Minneapolis, Minn., $118,336. Noted July 14.

Wisconsin — State Hy. Comn., Madison, grading, graveling, etc. 32,908 cu.yd. Soo Company Line-Chaffey Rd., Project 407-C, Douglas Co., to V. Nelson, 2214 West 6th St., Superior, $75,844.

Wisconsin—State Hy. Comn., and H. Mink, highway comr. Grant Co., Lancaster, improving Mt. Ida-Bridgeport Rd., 35,417 cu.yd. grading, etc., to Stevens Bros., 612 Endicott Bldg., St. Paul, Minn., $18,998; and 2,189 cu.yd. sand surfacing, to Dempsey Bros., Fennimore, $9,235.

Wisconsin—State Hy. Comn., Div. Office 3, Green Bay, crushed stone surfacing, etc. 12,840 cu.yd. Fish Creek-Ephraim Rd., Door Co., State Job 3111, to T. F. Carmody, Egg Harbor $55,129; and 5,544 cu.yd. Federal Aid Project 391-B Door Co., to H. Boulanger, Casco, $9,314; also grading, etc. 2.28 mi. Rio Creek-Algoma Rd., Kewaunee Co., State Project 3034, to Schuster Constr. Co. Denmark, $9,404. Grand total $73,847. Noted June 30.

Wis., Amery—State Hy. Comn., 1st Natl. Bank Bldg., Superior, concrete paving, etc. 11,566 sq.yd. various streets, State Job 8298, here, to A. Brown, Holcombe, $36,600.

Wis., Chippewa Falls—Comrs. Chippewa Co., Court House, 6 in. concrete paving, etc. Highway 29, to Wilson Constr. Co., Appleton, $131,134.

Wis., Janesville—Com. Pub. Wks., reip.-con. paving, etc. 35,291 sq.yd. various streets, to Booth & Olson, Sioux City, Ia., $82,287. Noted June 9.

Wis., Milwaukee—Paving National Ave., to White Constr. Co., 68 East Wisconsin Ave., $22,494; and Prospect Ave., to Badger Constr. Co., 97 East Wisconsin Ave., $32,967.

Wis., Westby—City Clerk, vibrolithic paving 17,175 yd. various streets, to Whitewater Bridge Co., Whitewater, $43,655, Noted June 16.

Ia., Atlantic—Cass Co., to G. W. Condon Co., 514 Federal Reserve Bldg., Omaha, Neb., improving Primary Project 478, 171,888 cu.yd. excav. at $0.224 per cu.yd., 100 cu.yd. loose rock surfacing $0.50, 100 cu.yd. solid surfacing $1, 29,560 cu.yd. channel excav. $0.224, 230,300 sta. yd. overhaul $0.02, etc.

Ia., Cedar Rapids—To Ford Paving Co., Cedar Rapids, grading and concrete paving 2,358 sq.yd. 23rd St., $6,465, and 972 sq.yd. Alley between Upland Dr. and Meadowbrook Dr. $2,609, also curbing and guttering etc. 19th St. $2,507; to P. P. Smith, Cedar Rapids, grading and concrete paving 9,370 sq.yd. 13th St. $19,715, 1,790 sq.yd. H Ave. $4,870, also grading and brick pav-

Ia., Cedar Rapids—Linn Co. to M. O. Weaver, Iowa Falls, improving Primary Project 488, 16,765 cu.yd. gravel 8 mi. haul, at $0.45, 228,899 units ½ mi. haul at $0.075 and 1,200 cu.yd. stripping at $0.25.

Ia., Charles City — Floyd Co., to A. Eikwald, Emmetsburg, improving County Road System, 900 ft. 8 in. tile drain at $0.20 per ft., 2,400 ft. 6 in. $0.12, and 4 intakes $15 each.

Ia., Emmetsburg — Palo Alto Co., to Brenton & Bauck, Emmetsburg, improving County Road System, 20,000 sta.yd. overhaul at $0.02 per yd., 15,000 cu.yd. excav. $0.25, 100 cu.yd. L. R. excav. $1, and 50

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cu.yd. S. R. excav. $15, etc.; to C. Olson, Emmetsburg, 13,000 ft. 6 in. tile drain $0.11.

Ia., Le Mars — Plymouth Co., to H. Pickus Constr. Co., Sioux City, improving County Road System, 32,560 cu.yd. gravel in place at $1.15 per cu.yd., 29,000 cu.yd. gravel, stripping $0.18, etc.; also to M. O. Weaver, Iowa Falls, 14,142 cu.yd. excav. $0.24, and 11,770 cu.yd. excav. $0.36, etc.

Ia., Marion — Linn Co., crushed stone surfacing 10,500 cu.yd. County Rd. System, to Falcon & Reinking, Cedar Rapids, at $2.445 per cu.yd., and 4,300 cu.yd. Twp. Rd. System, to Shaler & Albright, Cedar Rapids, $2.73; also graveling 7,300 cu.yd., etc., County Rd. System, to Moore & Eldridge, Clemons, $0.44, etc.

Ia., Primghar—O'Brien Co., to Van & Van, Hull, improving County Road System, 12,670 cu.yd. gravel first mile haul at $0.29 per cu.yd., 12,600 cu.yd. $0.34, 155,100 units gravel ½ mi. haul $0.065, 95,340 units $0.069, 10,920 units $0.07, 3,600 cu. yd. stripping pit $0.13, and 3,600 cu.yd. $0.15.

Ia., Spencer — Clay Co., to Holscher & Wahl, Victor, improving S-155, 9,100 cu.yd. gravel, 1st mile haul at $0.35 per cu.yd., 26,250 units gravel, ½ mile haul $0.07½, 2,400 cu.yd. gravel, extra from below water $0.07.

Ia., Waverly—Bremer Co., to C. E. Walker, Cedar Rapids, improving 6 mi. Primary Rd., 10 from Wapsie east, Primary Project 483, 105,268 cu.yd. excav. at $0.27 per cu.yd., 300 cu.yd. excav. $0.45, 250 cu.yd. loose rock surfacing $1.50, 7,870 sta. yd. overhaul $0.02, etc.

Minn., Duluth—P. G. Phillips, city comr., grading, concrete paving, etc., 10,778 sq.yd. 8th St., to Thornton Bros., 1363 Rayton Ave., St. Paul, $39,769.

Minn., Fergus Falls—W. Lincoln, aud., Otter Tail Co., improving County Job 28-01, State Aid Road 24, approximately 148,338 cu.yd. earth, 11,117 cu.yd. loose, and 2,159 cu.yd. solid rock excav., 179,473 cu.yd. overhaul, etc., to George J. Grant Constr. Co., 903 Exch. Bank Bldg., St. Paul, $53,717. Noted June 30.

Minn., Hastings—R. W. Downs, aud. Dakota Co., improving State Rd. 7, approximately 23,416 sq.yd. concrete paving, 13,535 ft. sloping curbing, etc., to Garrick Bros., 779 Portland Ave., St. Paul, $49,683. Noted June 30.

Minn., Mantorville—Dodge Co. **(S.A.R. means State Aid Road)**, graveling 3.56 mi. S.A.R. 2702-8, 12.33 mi. S.A.R. 2703-9, 3 mi. S.A.R. 2704-10, and 2.22 mi. S.A.R. 2705-3, to Klemme Constr. Co., Owatonna, $35,056.

Minn., Moorhead—Crushed rock concrete paving 11,000 sq.yd. streets in Dists. 19 and 20, to A. F. Johnson Co., 747 Plymouth Bldg., Minneapolis, $32,187 and $43,063 respectively. Noted July 7.

Kan., Abilene—Grading, etc., 14.491 mi. Kansas Project 82, to Wyland Lattin & Yard, Osborne, $61,374; also 5 bridges on same road to A. J. Rhodes, Manhattan, $15,888. Noted July 7.

Kan., Smith Center—Smith Co., grading and 2 bridges on 0.218 mi. Federal Aid Project 364-B, 30 ft., to P. Shivvers, Scandia, $25,230. Noted June 16.

Kan., Wichita — Concrete paving 2,103 sq.yd. Ash St., also 12,178 sq.yd. Elm, Fountain, Hydraulic, Ida, Orchard and Yale Sts., to E. P. Reagor, Augusta, at $1.76 and $1.66 per sq.yd. respectively; asphaltic concrete paving 18,532 sq.yd. Brooks, Douglas, 1st, Mildred, 3rd and Vassar Sts., to H. T. Ritchie, Box 831, Wichita, $2.39 sq.yd.; brick paving 1,653 sq.yd. Mosely St., to Globe Constr. Co., 1069 North Water St., $3.50.

Kan., Winfield—Cowley Co., concrete paving 3.275 mi. Federal Aid Project 231-G, also one 40 ft. deck girder span and two 16 ft. slab spans to M. R. Amerman, Wichita, $98,839 and $7,336, respectively; also bridge 2 to Livingston Constr. Co., $2,627. Grand Total $108,802. Noted June 23.

Nebraska—State Hy. Comn., Lincoln, graveling 16.5 mi. Shelby-Columbus Rd., Federal Aid Project 86, Butler and Polk Counties, to Sokol Bros., Duncan $25,136.

Neb., Valentine—Cherry Co., grading Federal Aid Project 202-G, to Roberts Constr. Co., 1st Natl. Bank Bldg., Lincoln $34,160.

N. D., Minot—Paving approximately 8 blocks 4th Ave., to Hanlon & Okes, 1501 Merchants Natl. Bank Bldg., St. Paul, Minn., $31,000.

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Wyoming—State Hy. Comn., Cheyenne, **(F.A.P. means Federal Aid Project)** grading, etc. 264,800 cu.yd. Cheyenne-Torrington Rd., F.A.P. 167-B, to Coad & Peterson $51,931, 206,100 cu.yd. Rawlins-Red Desert Rd., F.A.P. 191-B, and placing 27,200 tons gravel on Kemmerer-Granger Rd., F.A.P. 188-A, to Monahan & Cunningham Constr. Co., Railroad Bldg., Denver, Colo. $58,285 and $26,930 respectively. Grand total $136,668.

Mont., Hamilton—Concrete paving 15,600 sq.yd. various streets, to J. Sten, Hamilton, $48,495. Noted Apr. 28.

Mo., Albany—C. E. Gibbany, city clk., City Hall, 6 in. rein.-con. paving, etc. 7 blocks Daniel St. between College Ave. and Smith St., 24 ft.; and 2 blocks Polk St. between Wood and South Sts., 40 ft. to M. W. Watson, 501 Mulvane Bldg., Topeka, Kan., approximately $26,000. Noted June 20.

Mo., Kansas City—Asphaltic concrete paving, etc., 7,276 sq.yd. 16th St. to G. G. Roudebuch, 2739 North 11th St., Kansas City, Kan. $33,397.

Mo., Kansas City—Petroleum asphalt paving, etc. Main St. between 12th and 20th Sts., to Midwest Paving Co., Valentine and Bway. Sts., $43,882.

Tex., Brownsville—Cameron Co., grading and bridging Parades Line, Buena Vista, Old Point Vista and 4 other roads, to L. G. Nichols, Harlingen, $65,227. Engrs. est. $70,000.

Tex., Clairmont — Kent Co., grading, bridging, etc. 18.977 mi. Highway 84, to G. F. Davis, Moran, $59,389.

Tex., Fairfield—Freestone Co., rein.-con. paving 6.59 mi. Highway 7, 18 ft. to F. P. McElwrath, Corsicana, $189,777.

Tex., Ft. Worth—Paving 8th Ave., Towsend Dr., Haynes, Ive, White, Pine and West Annie-Cooper Sts., to West Texas Constr. Co., Cotton Exch. Bldg., $95,125, engrs. est. $95,125; also Belle Pl. Stanley and Harley Aves., West 5th St., Washburn, and Ryan Place Dr. to Standard Paving Co., Majestic Bldg., $89,883, engrs. est. $90,000.

Tex., Laredo—Webb Co. rein.-con. paving 10.781 mi. Highway 12-A, Federal Aid Project 436-A, 18 ft. to H. B. Zachary, Laredo, $259,922. Engrs. est. $285,000.

Tex., Plainview—Paving 21 blocks various streets, to J. N. Jordon, of Jordon Constr. Co., Plainview, $120,000.

Tex., Waco — Concrete paving 15,000 sq.yd. various streets, to Standard Paving Co., Waco, at $2.58 per sq.yd.

Okla., Britton—Grading and graveling 10 blocks streets in Dists. 4, 5 and 6, to Hamilton, Pauls Valley, $27,366. Engrs. est. $29,482.

Okla., Watonga—Grading, curbing and concrete paving 8,610 sq.yd. Main St., in Dist. 2, to Connelly Bros., El Reno, $24,107. Engrs. est. $26,770.

N. M., Clovis—For 1.5 in. warrenite on 3 in. asphalt concrete paving, etc. approximately 84,750 yd. various streets, to New Mexico Constr. Co., Alberquerque, $283,945. Engrs. est. $283,995.

Idaho—J. D. Wood, comr. Pub. Wks., Boise, grading, etc. 2.206 mi. Sawtooth Park Highway, Custer Co., to Western Constr. Co., Dillon, Mont., $21,175; and gravel surfacing 21.33 mi. Lost River Highway, Federal Aid Project 117-A, between Bingham Co. line and Junction 7 mi. east of Arco, to W. Hoops, Mt. Pleasant, Utah, $51,669. Noted July 7.

Nevada—State Hy. Comn., Carson City, constructing 4.96 mi. Connors Pass Sect. White Pine Rd., Federal Aid Project 7-B-2, Contr. 162, White Pine Co., to Wheelwright Constr. Co., Ogden, Utah, $55,399, and 15.74 mi. Stonehouse-Pony Springs Rd., Federal Aid Project 94-E, 7-D-3, Lincoln Co., to J. N. Tedford, Fallon, $106,399; also corrugated metal culverts on Federal Aid Project 107-a, White Pine Co., to Calif. Corrugated Culvert Co., West Berkeley, Calif., $1,452. Grand total $163,250. Noted July 7.

Arizona—State Hy. Comn., Carson City, grading and surfacing 15,008 cu.yd. Globe-Safford Highway, Federal Aid Project 87-A, to Ken Hodgman, Yuma, $303,311, incl. 10% engineering and contingencies. Noted July 7.

Wash., Bellingham—Comrs. Whatcom Co., grading and graveling 1.75 mi. Lake Whatcom Highway to Casteen & Dorsey, Bellingham, $25,263. Engrs. est. $25,000.

Wash., Tacoma—Paving North Central Dist., to Anderson & Liljebeck, Tacoma, $105,828.

Oregon—State Hy. Comn., Salem, grading, graveling, etc. 3 mi. Anna Springs Run Rock Highway, Klamath Co., to Dunn & Baker, Klamath Falls, $80,060.

Calif., Berkeley—E. M. Hann, city clk., grading and 7 in. concrete paving etc. 226,450 sq.ft. Euclid Ave., to Oakland Paving Co., 5000 Bway., Oakland, approximately $139,250. Noted Dec. 2.

Calif., Hawthorne — Improving Massachusetts Ave., to G. H. Oswald, 366 East 58th St., Los Angeles, $39,299.

Calif., Los Angeles—Bd. Supervs. Los Angeles Co., to E. Johnson & Sons, 4183 Normandie Ave., improving Snowden and Esperanza Rd., 575,971 sq.ft. 2 in. sheet asphalt paving at $0.10 per sq.ft., 575,971 sq.ft. asphaltic concrete paving $0.14, 22,305 sq.ft. 8 in. concrete paving $0.35 etc., total $277,807. Engrs. est. $287,486. Noted June 30.

Calif., Los Angeles—Supervs. Los Angeles Co. improving San Gabriel Canyon and Arroyo Seco Highway, to A. J. and J. L. Fairbanks, Inc., South San Francisco $77,920, Norbonne Ave., to G. R. Curtis Paving Co., 3440 East 26th St., Los Angeles $46,455, and Long Beach Blvd., to North Pacific Constr. Co., 144 Larchmont Blvd., $407,571; curbing, guttering, walks, etc. Fir St., Impvt. 523, to Pierson & Morris, 4130 Verona St., $41,910; also grading, curbing, guttering and concrete paving 96th St., etc., to C. D. Soteras, 4533 Pickford St., $29,260. Grand total $603,116.

Calif., Los Angeles—Grading, etc. 25,000 cu.yd. Riverside Dr., to deWaard & Son, Western Mutual Life Bldg., approximately $67,500.

Calif., Los Angeles—For improving Riverside Dr., **(e. e. means engrs. estimate)** to de Waard & Son, 518 Western Mutual Life Bldg., $67,390, 7th St. (Garland and Alvarado), to Los Angeles Electric Works, 1128 South Los Angeles St., $38,486 e.e. $40,873, Kilkea Dr., to W. Liddington, 420 East 60th St., $25,354 e.e. $27,437, 98th St., to G. H. Oswald, 366 East 58th St., $57,790 e.e. $63,040, Hauser Ave., to R. A. Wattson, 1026 North McCadden Pl., $180,516 e.e. $181,597. Grand total $369,536.

Calif., Marysville—W. Strief, clk. Yuba Co., concrete paving, etc. Feather River Blvd., to C. W. Wood, Manteca, $94,740, and 2½ in. Warrenite paving, etc. Hammonton Rd., from Arnold Bean Pl. to O'Brien Corner, to Warren Constr. Co., Poplar and 28th Sts., Otkland, $58,098. Noted June 30.

Calif., Tulare—For Willite paving, etc., Inyo and O Sts., to Valley Paving & Constr. Co., Visalia, $37,495.

Calif., Vallejo—For 6 in. concrete paving, etc. Napa Rd. between Tennessee and Louisiana Sts., to J. E. Johnston, Weber and E Sts., Stockton, $31,455.

Ontario—Dept. Pub. Highways, Parliament Bldgs., Toronto, concrete paving 5.2 mi. road from Bewdley south, Contr. 27-15, to G. F. Little, Dundas St., Trenton; and tar bound macadam paving road from point 24 mi. north of Brockville, Contr. 27-73, to S. D. Code, Smith Falls. Engrs. est. $250,000.

Ont., Bothwell—Kent Co., sheet asphalt paving, curbing, guttering, etc. Main St., to Merlo, Merlo & Ray, Ford City. Engrs. est. $45,000. Noted Mar. 3.

Calif., San Carlos—To Robin Constr. Co., 25 Taylor St., San Francisco, improving streets in White Oaks Sub-division, 30,000 cu.yd. grading at $0.52 per cu.yd., 383,000 sq.ft. 4 in. waterbound macadam paving $0.105, 297,000 sq.ft. 5 in. $0.115, etc., total $105,900.

Calif., San Diego — Common Council, grading, curbing and 5 in. concrete paving, etc. Orange Ave., etc., to D. H. Ryan, 1615 Fern St., $29,776.

Calif., San Rafael—Marin Co., 5 in. asphalt paving, etc. Lucas Valley Rd., and 7-5-7 in. asphalt paving Tomales Rd. east to County Line Rd., to Pacific States Constr. Co., Call Bldg., San Francisco, $16,877 and $98,396 respectively; also concrete paving Novato-Hicks Rd., to Conners, Hansen & Ede, Rosenberg Bldg., Santa Rosa, $99,090.

Ont., Carleton Place—Lanark Co., bituminous paving 7,400 sq.yd. various streets, to Standard Paving Co., Ltd., Central Chambers, Ottawa. Engrs. est. $35,000. Noted June 23.

Ont., Chippewa—Sheet asphalt on concrete paving approximately 7,500 sq.yd. various streets, to Brennan Paving Co. Ltd., 400 Gage Ave. N., Hamilton, $31,370. Engrs. est. $35,000.

Ont., Hamilton—City will curb, gutter and pave with asphalt on concrete approximately 12,000 sq.yd. Wellington St. N., by day labor. $57,445. W. L. McFaul, City Hall, engr.

Streets and Roads (Continued)

Ont., Harrow—W. P. Coyle, clk. Essex Co., Sandwich, grading and concrete paving 2 mi. roads, 18-20 ft., to Premier Constr. Co., Ltd., 924 Windsor St., Windsor. Engrs. est. $45,000. Noted June 9.

Ont., Lindsay—Council Victoria Co., asphaltic macadam, paving 1¼ mi. Road, 20 ft., to Standard Paving Co. Ltd., Central Chambers, Ottawa. Engrs. est. $30,000.

Ont., Mimico—Grading, curbing, guttering and sheet asphalt on concrete paving approximately 16,000 sq.yd various streets, to Lowes Constr. Co., Mimico. $55,943. graveling 16.5 mi. Shelby-Columbus Rd., system, and extending same.

Ont., St. Catherines—Suburban Roads Comn., concrete paving 6 mi. Merritville Rd., to Grant Contg. Co., 47 Wellington St. E., Toronto. Engrs. est. $150,000. Noted July 7.

Ont., Sound—City Council, asphalt paving 16,000 sq.yd. various streets to Warren Bituminous Paving Co., 54 University Ave., Toronto. $61,281. Noted June 30.

Ont., Teeswater—Plans waterworks, including, c.i. mains, pumping system, pump house, reservoir, etc. $35,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Toronto—To Godson Contg. Co., 203 Richmond St. W., asphalt paving Hagar Ave. $4,224, and Simcoe St. $7,573; to Constructing & Paving Co., 17 Queens St. E., Hillsdale Ave., $9,202; to L. P. Acri, 102 Markham St., concrete paving Lane 1st North Noble St. $1,951, Lane 1st North Ossington St. $4,092, and Lane 1st north of Shaw St. $1,705. Grand total $28,746. Noted June 9.

Ont., Toronto—Asphalt on concrete paving Colin Ave., to Constructing & Paving Co., Confederation Life Bldg., $3,104; Front St. and Pine Ave., to Dept. Pub. Wks., by day labor, $22,731 and $1,870 respectively. Grand total $27,705.

Ont., Welland—Welland Co., macadamizing 4 mi. roads, Sects. 1 and 2, 18 ft., to Law Constr. Co., Confederation Life Bldg., Toronto, $71,979. Engrs. est. $70,000.

Ont., Wiarton—Council Bruce Co. will pave with macadam ¾ mi. Division St., by day labor. $25,000. G. E. Stephenson, Walkerton, engr.

Ont., Windsor—Essex Co., rein.-con. paving 2 mi. roads in Rochester Twp., to Labute & Lanuel, Tecumseh Rd., Walkerville. Engrs. est. $45,000.

Que., Hull—Sheet asphalt paving various streets to Standard Paving Co., Ltd., Central Chambers, Elgin St., Ottawa, Ont., $86,300. Noted Apt. 21.

B. C., Point Grey—Grading and warrenite bitulithic on rock paving various streets, to General Constr. Co. Ltd., Vancouver Blk., Vancouver, $8,869; and 6 in. concrete paving, to Armstrong & Morrison, 543 Granville St., Vancouver, $37,593.

B. C., Vancouver—City, 6 in. concrete paving 10 blocks Grandview Highway, to Dawson Wade & Co., 500 Beatty St. $39,184, and various streets, to Hodgson, King & Marble, 626 Renders St. W., $16,932; warrenite bitulithic on rock paving Bway. West and Beach Aves., to Columbia Bitulithic, Ltd., 500 Beatty St., $36,454; also concrete curbing and sidewalks on various streets, to E. A. Anderson, 306 20th Ave. E., $35,333. Grand total $127,903.

Buildings—Commercial

Proposed Work

N. H., Nashua—THEATRE—Harrisey & Barry, c/o J. A. Tuck, archt., Park Sq. Bldg., Boston, Mass., having sketches made probably brick and steel theatre. To exceed $150,000.

Mass., Boston—GARAGE—Back Bay Hotels Garage, Inc., 260 Tremont St., had revised plans prepared by G. N. Meserve, 260 Tremont St., 38,000 sq.ft. floor space, rein.-con. and brick, caisson foundation, Columbus Ave. and Dartmouth St. $500,000.

Mass., Boston—OFFICE and STORE—Hemenway Estate, c/o Shepard & Stearns, archts., 65 Franklin St., having plans prepared altering and reconstructing 6 or 8 story and basement, brick and steel, plain foundation, 120 Newbury St. Archts est. $150,000 or more.

Mass., Lawrence—BANK—Bway. Savings Bank, 522 Essex St., having revised plans prepared by J. E. Allen, 283 Essex St., 1 and 2 story and basement, rein.-con., brick and limestone, plain foundation, Essex and Hampshire Sts. $400,000. Noted May 23.

Mass., Newton (Ind br. Boston)—APARTMENT and STORE—A. T. Stuart, 62 Institution Ave., plans apartment and store, 1267 Centre St. $150,000 or more. Private plans.

Mass., Winchindon—BANK—First Natl. Bank, Z. White, pres., 74 Front St., plans bank, $150,000. Engineer and architect not selected.

R. I., East Providence (br. Providence)—STORE and OFFICE—R. Tortolani, 20 Bainbridge Ave., Providence, having sketches made by Page & Page, 87 Weybosset St., Providence, 3 or 4 story and basement, brick and stone, plain foundation, Waterman St. and Taunton Ave., here. $150,000 or more.

R. I., North Providence (mail Providence) MASONIC TEMPLE — Roger Williams Lodge 32, H. H. Wardell, chn., plans masonic temple, Steirs Ave. $150,000 or more. W. R. Walker & Son, 49 Weybosset St., Providence, archts.

R. I., Providence—GARAGE—J. Conn, 104 Broad St., having plans prepared rein.-con., brick and steel, Broad and Chestnut Sts. $150,000 or more. T. J. Hill Pierce, 375 Washington St., archt.

Conn., Torrington — HOSPITAL — Charlotte Hungerford Hospital, T. W. Bryant, chn. Building Com. having plans prepared by Crow, Lewis & Wick, 200 5th Ave., New York City, brick and steel addition, $500,000. Noted July 6.

N. Y., Rochester—APARTMENT—M. Rosenberg, 3 Pershing Dr., having plans prepared by Taylor, Homes & Converse, 311 Alexander St., 5 story and basement, brick and steel, Oxford St. $650,000.

N. Y., Rockville Center — HOSPITAL—Rockville Center Hospital Assn., Park Ave, having plans prepared by Hart & Shape, 247 Park Ave., New York City, 3 story, brick and steel, plain foundation, here. $250,000.

N. J., East Orange—APARTMENT—Kanter & Cohen, c/o L. Kasoff, archt., 164 Market St., Newark, having plans prepared 4 story and basement, 75 x 100 ft., brick and steel plain foundation, Glenwood Ave. and Essex St. $150,000.

N. J., East Orange—APARTMENT—Sharff & Koplowitz, 207 Market St., Newark, having plans prepared by L. Kasoff, 164 Market St., two 4 story, brick and steel, plain foundations, Arlington Ave. and North Elmwood St. $240,000.

N. J., East Orange—APARTMENT—D. Schneider, 250 Renner Ave., will not construct 4 story, brick and steel, plain foundation, 186-88 William St. $150,000. Project abandoned. Noted June 9.

N. J., East Orange—APARTMENT—Sharff & Koplowitz, 207 Market St., Newark, will not construct 4 story, 90 x 130 ft., brick and steel, plain foundation, North Arlington Ave. and Hamilton St. $150,000. Project abandoned. Noted June 23.

N. J., East Orange—CITY HALL—City takes bids about Aug. 15, general contract 3 story, brick and steel, plain foundation, North Arlington Ave. and New St. $200,000. Purdy & Henderson, 45 East 17th Sts., New York City, archts. J. H. and W. C. Ely, 748 Broad St., Newark, engrs. Noted Mar. 10.

N. J., Elizabeth—BANK—Downtown Trust Co., c/o Peoples Natl. Bank, 113 Broad St., having plans prepared by Oakley & Son, 1259 Clinton Pl., 1 story and basement, 75 x 100 ft., brick and steel, plain foundation, 3rd and East Jersey Sts. $150,000.

N. J., Elizabeth—HOSPITAL—L. V. Pohlman, archt., 80 Broad St., soon lets contract, general contract 3 story, 40 x 130 ft., brick and steel addition, plain foundation, 7th and East Jersey Sts., for Alexian Bros. Hospital, 7th and East Jersey Sts. $300,000. Noted May 26.

N. J., Hackensack—APARTMENT—A. Campangna, 200 West 172nd St., New York City, having plans prepared by R. Candela, 578 Madison Ave., New York City, 6 story, brick and steel, plain foundation, Summit Ave. and Clinton Pl., $350,000.

N. J., Irvington (br. Newark)—APARTMENT—N. S. Kopneck, 26 Wolcott Terrace, Newark, having plans prepared by R. Bottelli, 45 Branford Pl., Newark, 5 story, 60 x 190 ft., brick and steel, plain foundation, 20-38th St. $200.000.

N. J., Jersey City—CLUB HOUSE—Knights of Columbus 137, 441 Jersey Ave., plans brick and steel, plain foundation, clubhouse. $150,000. Engineer and architect not selected.

N. J., Jersey City—HOSPITAL—St. Francis Hospital, East Hamilton Pd:. soon takes bids general contract 5 story, 40x 150 ft., brick and steel, plain foundation, 9th and Erie Sts., $150,000. C. H. Ziegler, 75 Montgomery St., archt., Noted May 5. Steam heating, etc., to be installed.

N. J., Jersey City—THEATRE—Loew's Theatrical Enterprises, 1540 Bway., plans theatre, Journal Sq., here. $300,000. Engineer and architect not selected.

N. J., Leonia—APARTMENT—Gerdin Realty Corp., Broad Ave., having plans prepared 5 story and basement, brick and steel, plain foundation, Broad Ave. and Christie St. $150,000. Private plans.

Steam heating, flooring, roofing, piping, etc.

N. J., Newark—APARTMENT—J. Leven, c/o Myers, Bigelow & Shanley, archts., 24 Walnut St., having plans prepared 4 story, 75 x 100 ft., brick and steel, plain foundation, 379-81 Sanford Ave. $150,000.

N. J., Newark—LOFT and STORES—Bloomingdale Bros., 59th St. and Lexington Ave., New York City, soon lets contract general contract altering 6 story, brick and steel, plain foundation, 69-71 Market St., here. $150,000. Starrett & Van Vleck, 393 7th Ave., New York City, archts. Noted July 21.

N. J., Newark—THEATRE—Graft Realty Co., 24 Commerce St., having sketches made by F. Grad, archt., 1023 Broad St., brick and steel, plain foundation, Lyons Ave. and Fabyan Pl. $150,000.

N. J., Newark—THEATRE—Stanley-Fabian Co., 17 Academy St., having preliminary sketches made by W. E. Lehman, 946 Bway., 3 story, brick and steel, plain foundation, Lyons Ave. and Clinton Pl. $150,000.

N. J., New Brunswick—OFFICE—A. Merchant, archt., 52 Patterson St., rejected bids 3 story and basement, brick and steel, plain foundation, Church St., here, for J. O'Connell, 392 George St. $150,000. Noted May 19.

N. J., Orange—SHOW ROOM and STORE—J. J. Lamb, archt., 318 Main St., takes bids about Aug. 10, general contract 2 story and basement, 110 x 155 ft., brick and steel, plain foundation, Main and Hillyer Sts., here, for A. K. Zotian, 147 Main St. $150,000. Noted Apr. 21.

N. J., Passaic—HOTEL and STORES—H. Stein, 201 Lexington Ave., having plans prepared brick and steel, plain foundation, 711-13 Main Ave. $150,000. Private plans.

N. J., Union—APARTMENT and STORES—F. A. Elsasser, archt., 845 Broad St., Newark, soon lets contract 3 story, brick and steel, plain foundation, Floyd Vallage Trades, here, for Union County Housing Corp. $150,000.

N. J., Ventnor (br. Atlantic City)—APARTMENT—T. J. Koury, c/o A. T. Amodio, Segal Bldg., Atlantic City, having plans prepared 7 story, brick and steel, plain foundation, Cornwall St. and Marsdon Ave. $250,000.

N. J., West Orange (br. Orange)—THEATRE, STORE and OFFICE—S. and K. Holding Co., 545 Bway., Bayonne, soon lets general contract 2 story, brick and steel, plain foundation, Valley Rd. near Freeman St. $150,000. Warren & Warren, 31 Clinton St., Newark, archts. Noted June 16.

Pa., Carbondale—HOSPITAL—St. Joseph Hospital, E. J. Healy, 15 North Main St., soon lets contract, 5 story and basement, 42 x 200 ft., rein.-con., brick and steel, plain foundation. J. A. McGlynn, Simon Long Bldg., Wilkes-Barre, archt. Noted June 9.

Pa., Eddystone—OFFICE—Baldwin Locomotive Wks., S. M. Vauclain, pres., 500 North Broad St., Phila., having plans prepared by Simon & Simon, 249 South Juniper St., Phila., 8 story and basement, 150 x 200 ft., rein.-con., brick and steel, plain foundation, near Baldwin Station.

Pa., Phila.—APARTMENT—J. E. Fox, Emlen St. and Lincoln Dr., having plans prepared by E. L. Rothschild, Bankers Trust Bldg., 4 story and basement, 117 x 175 ft., brick and steel, plain foundation, 5220 Wayne Ave. $500,000.

Pa., Phila. — HOSPITAL—Children's Heart Hospital, c/o R. Benckert, archt., Bellevue Ct. Bldg., having plans prepared (1st unit) hospital on 663 x 796 ft. site, Conshohocken St. and Windemere Ave. $125,000. Total $600,000.

Pa., Phila.—LOFT—C. E. Oehlsloyer, archt., 1615 Walnut St., soon lets contract sub bids, 15 story and basement, 100 x 112 ft., rein.-con., brick and terra cotta, plain foundation, 13th and Race Sts., for B. Sagel,

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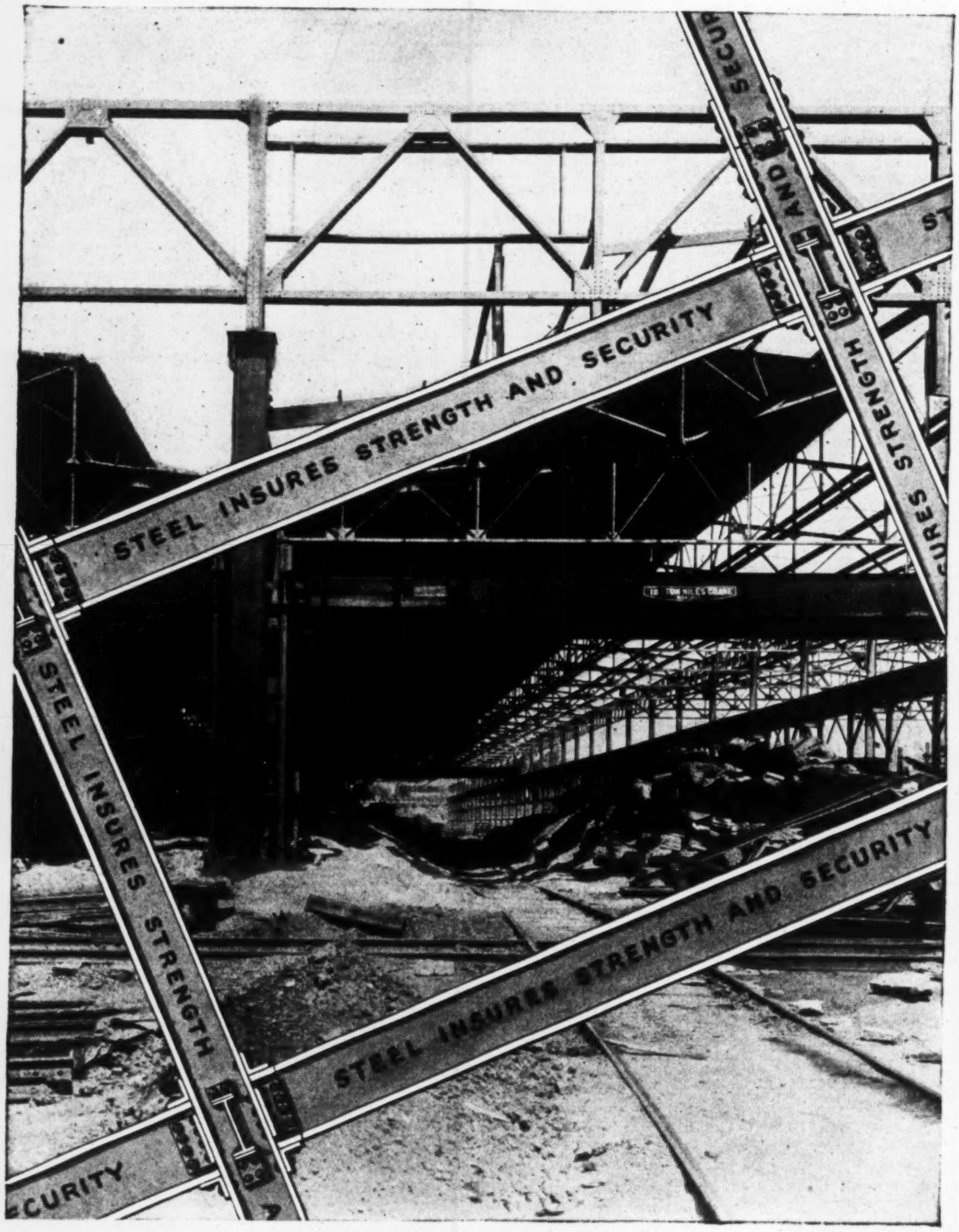
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Buildings—Commercial (Continued)

Penn Bldg. $1,125,000. Scotch marine boilers, elevators, kal and fire doors, etc.

Pa., Phila.—Y. M. C. A., 1425 Arch St., having plans prepared by L. E. Jollardi, 115 East 42nd St., New York City, 27 story and basement, 85 x 110 ft., rein.-con., brick and steel, plain foundation, 15th and Cherry Sts. $1,500,000.

Md., Baltimore—OFFICE—U. S. Fidelity & Guaranty Co., Calvert and Redwood Sts., plans 5 story steel and stone addition, plain foundation. Wyatt & Nolting, Keyser Bldg., archts.

Ga., Bainbridge — TEMPLE — Masonic Temple Assn., A. H. Mills, chn., having plans prepared by W. H. Hwilecki, Bainbridge, 5 story and basement, 80 x 100 ft., steel and brick temple. $150,000.

O., Cincinnati—APARTMENT—Jefferson Corp., 1010 Schmidt Bldg., having plans prepared by Fechheimer & Ihorst, 1010 Schmidt Bldg., 3 story and basement, 100 x 180 ft., brick and rein.-con., plain foundation, Rockdale St. $150,000.

O., Cincinnati—Y.M.C.A. Elm St. having plans prepared by C. F. Cellarius, St. Paul Bldg., 4 story and basement, brick and rein.-con., plain foundation, McMillan St. $300,000.

O Cleveland — APARTMENT — M. F. Narosny, 12409 Brackland Ave., had plans prepared by L. Skolnik, Auditorium Bldg., 3 story and basement, 76 x 97 ft., brick, 12401 Brackland Ave. $150,000.

O., Cleveland — APARTMENT — H. L. Haines Co., 12381 Cedar Rd., Cleveland Heights, had plans prepared by R. H. Hinsdale, Erie Bldg., 3 story and basement, 37 x 117 ft., brick, 2103 Cornell Rd. $175,000.

O., Cleveland—STORE—A. Carlin, c/o Hotel Euclid, East 14th St. and Euclid Ave., having plans prepared, 3 story and basement, 34 x 126 ft., brick, Euclid Ave. near East 22nd St. $150,000. Walker & Weeks, 2341 Carnegie Ave., archts.

O., Lakewood (br. Cleveland)—APARTMENT—P. F. Price, 12719 St. Clair Ave., Cleveland, takes bids about Aug. 5, 4 story and basement, 140 x 250 ft., brick, West Clifton Blvd., here, $350,000. Allen-Osborn Co., Rose Bldg., Cleveland, archts. Noted June 16.

O., Marion—THEATRE—E. E. Bender, Massillon Rd., and S. Bernstein, et al, Canton, having plans prepared by J. Eberson, 212 East Superior St., Chicago, Ill., for 120 x 150 ft. theatre, Center St., here. $500,000.

O., Middletown—THEATRE—Owner, c/o D. Graham, archt., 1126 Hume Mansur Bldg., Indianapolis, having plans prepared 3 story and basement, 78 x 209 ft., brick and rein.-con., here. $350,000.

Ill., Chicago—APARTMENT—Cable & Spitz, archts., 220 South State St., soon take bids 3 story and English basement, 147 x 156 ft., brick and stone, 4730-44 North Kenneth Ave. $320,000. Owners name withheld.

Ill., Granite City—MAUSOLEUM—Sunset Hill Trust Estate, 1202 Niedringhaus Ave., having preliminary plans prepared by S. Lovell, 224 East Ontario Ave., Chicago, rein.-con., brick and marble, in Sunset Hill Cemetery, near here. $250,000.

Wis., Milwaukee — STORAGE — Cookley Gas & Electric Co. having plans prepared by Eschweiler & Eschweiler, 210 Mason St., 8 story and basement, 74 x 150 ft., rein.-con. and brick, plain foundation, Wisconsin Ave. $175,000.

Wis., Wausau—CLUB—Y.W.C.A., A. C. Blanden, secy., plans 4 story, rein.-con., brick and steel, plain foundation, here. $150,000. Engineer and architect not selected. Steam heating, etc.

Ia., Sioux City—SERVICE—Sioux City & Electric Co. having plans prepared by U. G. J. Contg. Co., 1401 Arch St., Phila., Pa., 2 story and basement, 150 x 180 ft., brick, concrete and rein.-con., plain foundation. $200,000.

Mo., .Clayton—HOSPITAL—St. Louis Co., election soon $1,500,000 bonds, county hospital, here. R. Jablonsky, Court House, engr.

Mo., Clayton—JAIL—St. Louis Co., election soon $500,000 bonds, county jail. R. Jablonsky, Court House, engr.

Mo., Columbia—CITY HALL—City having plans prepared bv Eckel & Aldrich, St. Joseph, and Bill & Traber, Columbia, 3 story and basement, rein.-con., brick and stone, 6th St. and Bway. $300,000. Noted Aug. 12.

Mo., Poplar Bluff—COURT HOUSE—Butler Co., plans election $300,000 bonds, court house. Noted June 9.

Mo., Springfield — MEDICAL ARTS — Doctors of Springfield, c/o Heckenlively & March, archts., 642 Landers Bldg., having plans prepared 2 story and basement, 73 x 110 ft., rein.-con., brick, terra cotta and stone medical arts building. $200,000. Noted May 5.

Mo., St. Louis—BANK, STORE and OFFICE—Lindell Trust Co., C. H. Peters, pres., 2745 North Grand Blvd., having preliminary plans prepared by Wedemeyer & Nelson, 824 Wainwright Bldg., 6 story and basement, 75 x 122 ft., rein.-con., brick, terra cotta and Bedford stone, Grand Blvd. and St. Louis Ave.

Mo., St. Louis—HOTEL and STORE—M. Smith, c/o L. H. Williams Mortgage Co., Arcade Bldg., having preliminary plans prepared 3 story and basement, 85 x 95 ft., rein.-con., brick and terra cotta, Franklin Ave. and 6th St. $150,000. Private plans.

Tex., Barreda—HOTEL—Lasby & Crawford, San Benito, soon take bids 3 or 4 story hotel. $150,000. Engineer and architect not selected.

Tex., Brownsville—THEATRE—J. M. Nix, c/o Lanier Hotel, San Antonio, plans 3 story, rein.-con., brick, tile and stucco, plain foundation. $250,000. Private plans.

Tex., Caldwell—COURTHOUSE and JAIL—Burleson Co. having preliminary plans prepared 3 story and basement, 57 x 113 ft., rein.-con. and brick, plain foundation. $150,000 bond election soon for same. Address G. W. Grant, Caldwell co. judge.

Tex., Eastland—COURTHOUSE—Eastland Co. voted $300,000 bonds, 5 story and basement, rein.-con., brick and stone courthouse. E. S. Pritchard, Eastland, co. judge.

Tex., Houston—BANK—Houston Natl. Bank having plans prepared by Hedrick & Gottlieb, Post-Dispatch Bldg., 3 story and basement, 105 x 115 ft. bank, Franklin and Main Sts. $700,000.

Tex., La Feria—HOTEL, THEATRE etc.—F. Rabb having preliminary plans prepared by P. G. Silver & Co., 332 Bedell Bldg., San Antonio, Laguna Maria Louisa Land Development, incl. hotel, theatre, dance and convention hall $150,000, and rein.-con. swimming pool $50,000, all above approximately 3 mi. from here.

Tex., San Angelo—HOTEL—Owner, c/o C. C. McBurnett (lessee), plans 5 story and basement, 150 x 200 ft., rein.-con. and brick, plain foundation, incl. coffee shop, dining room, garage, etc. $375,000. Private plans.

Tex., San Antonio — HOME — Salvation Army, Ave. E, having plans prepared by A. B. and R. M. Ayres, 626 Bedell Bldg., and takes bids about Aug. 1, 6 story and part basement, 48 x 120 ft., rein.-con., brick and tile, plain foundation, Presa and College Sts. $150,000.

Tex., San Antonio—STORE and OFFICE—C. M. Stephan, c/o The Vogue, M. & L. Kaufman, having preliminary plans prepared store and office building, Travis and Jefferson Sts. $500,000.

Tex., Temple—HOTEL—A. C. Scott, Sr. and associates having plans prepared by R. L. Walling, 803 Searbrough Bldg., Austin, 12 story, 110 x 150 ft., rein.-con., brick, steel and stone, Main St. and Barton Ave. $350,000. Noted July 21.

Tex., Waco—BUSINESS—G. O. Jones & associates, 112 South Martin St. Little Rock, Ark., plans 5 story, 150 x 175 ft., rein.-con., brick and steel, plain foundation, 23rd and Mary Sts. $175,000.

Okla., Muskogee — COURT HOUSE—Muskogee Co. voted $350,000 bonds new court house. Noted Nov. 26.

Wash., Seattle—OFFICE and STORE—C. W. Voorhees, archt., Lloyd Bldg., takes bids about Sept. 11, 10 story and basement, 60 x 120 ft., steel, concrete and terra cotta, 6th and Olive Sts., for J. R. Moore, 902 2nd Ave. $400,000.

Ore., Eugene—THEATRE—Heilig Theatres, C. W. McKee, mgr., plans 1½ story, 80 x 160 ft. theatre. To exceed $150,000. Engineer and architect not selected.

Ore., Klamath Falls—THEATRE—G. McPherson, archt., Klamath Falls, preparing plans and takes bids about Aug. 15, theatre, for G. W. McCullom, Klamath Falls, $200,000.

Calif., Balboa—CLUB—Irvine Beach & Country Club, c/o N. W. Alpaugh, Inc., archts., 2404 West 7th St., Los Angeles, having plans prepared brick, incl. two 42 x 100 ft. swimming pools, and two 15 x 70 ft. childrens pools, etc. $350,000.

Calif., Berkeley — HOTEL — Berkeley Hotel Corp., c/o W. H. Weeks, archt., 369 Pine St., San Francisco, having plans prepared 6 story and basement, 100 room, brick or rein.-con., Durant and Bowdich Sts. $500,000.

Calif., Glendale—HOTEL—L. A. Zeigler Co., 6001 Santa Monica Blvd., plans 5 story and basement, fireproof, Orange and Harvard Sts. $150,000.

Calif., Long Beach—HOSPITAL—Sisters of Charity of Incarnate Word, c/o I. E. Loveless, archt., Commonwealth Bldg., San Diego, having plans prepared 4 story and basement, brick and rein.-con., 10th St. and Linden Ave. $500,000.

Calif., Los Angeles — APARTMENT — Cramer & Wise, archts., I. W. Hellman Bldg., preparing preliminary plans 4 story and basement, 55 x 185 ft., brick, 5th St. $150,000. Owners name withheld.

Calif., Los Angeles—APARTMENT—T. J. Scott, archt., 5212 Wilshire Blvd., prepared preliminary plans 3 story and basement, 160 x 230 ft., steel, Lake St. near 1st St. $175,000. Owner's name withheld.

Calif., Los Angeles—HOTEL—M. L. Garrigus, 956 Ridgewood Pl., had plans prepared by L. L. Jones, Douglas Bldg., 6 story and basement, 98 x 103 ft., rein.-con., Santa Monica Blvd. and Western Ave. To exceed $150,000.

Calif., Los Angeles—HOTEL and STORE—M. L. Carrigus, 956 Ridgewood Pl., having plans prepared by L. L. Jones, Douglas Bldg., 6 story and basement, 98 x 105 ft., rein.-con., Santa Monica Blvd.

Calif., Los Angeles—SANITARIUM—Los Angeles Co. having plans prepared by K. W. Muck, 3200 Highland Blvd., semi-proof, Olive View. $175,000.

Calif., Los Angeles—STORE and LOFT—P. A. Behannesey, Western Ave. and Virginia St., having plans prepared by C. R. Spink, 5878 Hollywood Blvd., 8 story and basement, 70 x 100 ft., rein.-con., North Western Ave.

Calif., Los Angeles—STORAGE—Bekin Van & Storage Co., Otis and Mission Sts., San Francisco, having plans prepared by F. E. Barton, Crocker Bldg., San Francisco, 8 story, rein.-con., Pico Blvd. $250,000.

Calif., Modesto—HOSPITAL—Stanislaus Co. having plans prepared by R. G. de Lappe & V. Oglow, 1710 Franklin St., Oakland, 15 fireproof buildings, for hospital. To exceed $150,000. F. B. Plant, 1710 Franklin St., Oakland, engr.

Calif., Riverside—THEATRE, STORE and APARTMENT—El Camino Holding Corp., c/o M. E. Durfee, archt., Commercial Exch. Bldg., Los Angeles, having plans prepared 2 story, 132 x 196 ft., rein.-con., 7th and Market Sts. $275,000.

Calif., San Clemente—CLUB—O. Hanson, Sun Finance Bldg., Los Angeles, had plans prepared by V. Westbrook, San Clemente, 1 story, 27 x 158 ft. club, incl. 45 x 105 ft. swimming pool, rein.-con. construction.

Ont., Kitchener—MAUSOLEUM—Canada Mausoleums Ltd., Metropolitan Bldg., Toronto, having plans prepared by Cameron & Ralston, Bartlett Bldg., Windsor, marble, bronze and steel mausoleum, Woodlawn Cemetery. $100,000.

Ont., Oshawa — APARTMENT — H. E. Davidson, 36 Toronto St., Toronto, having plans prepared by H. J. Chawn, 20 Wayland Ave., Toronto, 3 story and basement, rein.-con., brick and steel, plain foundation, Simcoe St. N., here. $150,000.

Ont., Oshawa—APARTMENT—L. V. Disney Blk., plans 3 story and basement, brick, stone and tile, plain foundation. $200,000. Private plans.

Ont., Sandwich—CLUB HOUSE—Order of Elks, c/o H. I. Wiley, doctor, Capitol Theatre Bldg., Windsor, having plans prepared by B. Dore & C. H. Crane, Huron Bldg., Detroit, Mich., 7 and 11 story and basement, rein.-con., brick and steel, plain foundation, incl. banquet hall, restaurant, swimming pool, etc., Park Pl. and Sandwich St., here. $750,000.

Ont., Toronto — APARTMENT — Price Constr. Co., J. T. Benor & W. A. Price, 375 Bay St., had plans prepared 4 story and basement, 100 x 165 ft., rein.-con., brick and steel, plain foundation, Sultan and St. Thomas Sts. $300,000. K. Hyslop, 43 Adelaide St. W., archt.

Ont., Toronto — APARTMENT — E. R. Hoare, 53 Dundurn Ave., having plans prepared 3 story and basement, rein.-con., brick and steel, plain foundation, St. Clair Ave. $160,000. Private plans.

Ont., Toronto — APARTMENT — F. M. Johnston, 52 Victor Ave., having plans prepared by Baldwin & Greene, 31 Bloor St. E., 3 story and basement, 66 x 132 ft., rein. brick and steel, plain foundation, Pretoria Ave. $150,000.

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Buildings—Commercial (Continued)

Ont., Toronto — APARTMENT — High Park Mansions, c/o V. L. Morgan, archt., 317 St. Clements Ave., having plans prepared 3 story and basement, 100 x 168 ft., rein.-con., brick and steel plain foundation, Bloor St. W. and Parkview Ave., $250,000. Steam heating, plumbing, painting, tar and gravel roofing, flooring.

Ont., Toronto—APARTMENT and STORE —W. Moad, 50 Glenview Ave., having plans prepared by D. B. Burnham, 260 Lauder Ave., concrete and brick, Roehampton and Bway. Aves. $250,000.

Ont., Toronto — APARTMENT — Lancaster Bros., 767 Yonge St., had plans prepared by J. Armstrong, 767 Yonge St., 3 story and basement, rein.-con., brick and steel, plain foundation, Isabella St. $200,000.

Ont., Toronto—APARTMENT—Steiner & Levine, 47 Beverly St., soon takes bids 3 story and basement, rein.-con., brick and steel, plain foundation, Bloor St. W., and Kennedy Ave. $150,000. Kaplan & Sprachman, 305 Dundas St. W., archts.

Ont., Toronto — MAUSOLEUM — Park Lawn Mausoleum Co., 2222 Dundas St. W., having plans prepared by J. A. Elles, 189 Church St., concrete stone and brick mausoleum, plain foundation, Park Lawn Cemetery. $200,000.

Ont., Toronto—STUDIO and GARAGE—E. L. Ruddy Co. Ltd., 317 Spadina Ave., had plans prepared by Ewart, Armer & Byam, archts., 36 Toronto St., 2 or 3 story and basement, 43 x 143 ft., rein.-con., brick and steel, plain foundation. $150,000.

Bids Desired

N. H., Nashua — THEATRE — Harris & Barry, c/o J. A. Tuck, archt., Park Sq. Bldg., Boston, Mass., taking bids 1 story and basement, 70 x 150 ft., brick and steel, plain foundation. To exceed $150,000.

Mass., Attleboro—HOME CLUBHOUSE and STORE—Aug. 9, by B.P.O.E. No. 1014, c/o O'Malley & Fitzsimmons, archts., Fanning Block, Pawtucket, R. I., 2 story and basement, brick and stone, plain foundation, Winter St., $150,000-$175,000. Noted July 6.

Mass., Dorchester (br. Boston)—HOSPITAL—Aug. 17, by Boston Home for Incurables, E. H. Harding, pres. 2049 Dorchester Ave., 2 story and basement, brick and stone, plain foundation, Dorchester Ave. and Codman Sts. $250,000. Kendall, Taylor & Co., 142 Berkley St., Boston, archts. Noted July 28.

Mass., Lowell—THEATRE—See "Contracts Awarded."

Mass., Stoneham — BANK — Stoneham Five Cent Savings Bank, H. W. Parker, 375 Main St., taking bids 1 story and basement, irregular shaped, rein.-con., brick and steel, plain foundation, Main St. $150,000. Hutchins & French, 11 Beacon St., Boston, archts.

R. I. Cranston—HOSPITAL—State G. T. Gordon, taking bids 2 story and basement, brick addition, plain foundation, $150,000. G. F. Hall, Union Trust Bldg., Providence, archt.

Mass., Quincy (Boston P. O.)—APARTMENT—See "Contracts Awarded."

Conn., Stamford—APARTMENT—Aug. 6, by S. Silberman, 77 Glenbrook Rd. 3 story, brick and steel, Glenbrook Rd. $150,000. W. Schmitz, 175 Greenwich Ave., archt. Noted July 28.

Conn., Stratford (Ind. br. Bridgeport)—TEMPLE—Aug. 8, by Masonic Temple Assn., Main St., 3 story and basement, brick and steel, Main St. $150.000. C. W. Walker, 1115 Main St., Bridgeport, archt. Noted July 28.

N. Y., New York — APARTMENT — See "Contracts Awarded."

N. J., East Orange—APARTMENT—See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Award."

N. J., Plainfield—APARTMENT—Paul Constr. Co., 31 Clinton St., Newark, taking bids 4 story, 90 x 150 ft., brick and steel, plain foundation, West 7th and Liberty Sts. $400,000. Warren & Warren, 31 Clinton St., Newark, archts. S. Shaw & Co., 24 Commerce St., Newark, structural engr.

N. J., Rutherford—APARTMENT—See "Contracts Awarded.'

Pa., Phila—APARTMENT—Aug. 5, by H. Pearl, 625 East 63rd St., 4 story and basement, 40 x 118 ft., brick and steel, plain foundation, 10th and Clinton Sts. $150,000. Private plans.

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Pa., Phila.—APARTMENT—See "Contracts Awarded."

Pa., Phila.—GARAGE—Aug. 10, by Ballinger Co., archts., 12th and Chestnut Sts., 2 story, 120 x 220 ft., rein.-con. and brick addition, 23rd and Ludlow Sts., plain foundation, for Auto Club of Philadelphia, 22rd and Ludlow Sts.

Md., Baltimore—OFFICE—Aug. 17, by C. N. and N. Friz, archts., Lexington Bldg., 2½ story, 71 x 111 ft., brick, stone and steel, Holliday and Fayette Sts., for Central Fire Insurance Co., Holliday and Baltimore Sts. $225,000. Noted May 26.

S. C., Columbia—HOSPITAL—Aug. 11, by Bd. Regents, State Hospital for Insane, 2 brick and rein.-con. ward buildings, State Park, also altering and constructing addition to Parker Building, Lafaye & Lafaye, Columbia, archts.

Wis., Pulaski—BANK—See "Contracts Awarded."

Tex., Waco—HOTEL—Aug. 10 (extended date) by Tilton Hotel Co., c/o C. N. Tilton, Tilton Hotel, Dallas, and Lang & Witchell, archts. Amer Exch. Bank Bldg., Dallas, 14 story, rein.-con., brick, stone, $700,000. Noted July 21.

Ore., Portland—THEATRE—Aug. 15, by Bennes & Hertzog, archts., Chof. Com. Bldg., rebuilding Majestic Theatre, 351½ Washington St., for West Coast Theatres, Inc., 619 West Washington St. $200,000. Noted June 9.

Calif., Glendale—LODGE—Glendale Masonic Building Assn., taking bids (selected list of bidders), 4 story, basement and mezzanine, 64 x 125 ft., rein.-con., Brand Blvd. between Harvard and Colorado Sts. $200,000. A. G. Lindley, 410 Amer. Bank Bldg., Los Angeles, archt. Noted July 28.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles—GARAGE—Normandie Impvt. Co. (A. T. Pelton), 6001 Santa Monica Blvd., taking bids 6 story and basement, 100 x 125 ft., rein.-con., 8th St. and Normandie Ave. R. D. King, Van Nuys Bldg., archt.

Calif., Los Angeles—STORE and APARTMENT—See "Contracts Awarded."

Calif., San Francisco—THEATRE—H. A. Minton, associated archt., Bank of Italy Bldg., taking bids and open same about Aug. 20, theatre, 5,350 seating capacity, Hayes and Market Sts., for Capital Co., Bank of Italy Bldg. $1,500,000. T. W. Lamb, 8th Ave., New York City, archt. H. L. Nishkian, Underwood Bldg., engr. Noted July 14.

Calif., San Jose—BANK and OFFICE—F. H. Meyer, archt., 742 Market St., San Francisco, taking bids 9 story and basement, steel and rein.-con., 1st and Santa Clara Sts., here, for 1st Natl. Bank. To exceed $150,000. Noted Oct. 28.

Calif., Santa Barbara — HOTEL and STORE—See "Contracts Awarded."

Calif., Woodland—HOTEL and STORE —See "Contracts Awarded."

Contracts Awarded

Me., Alfred—COURTHOUSE—York Co., altering and constructing 2 story and basement, brick and stone addition, plain foundation, to M. J. Greene Constr. Co., 390 Congress St., Portland. Archts est. $150,000.

Me., Augusta — HOSPITAL — Augusta State Hospital, F. Tyson, supt. 3 story and basement, brick and stone, plain foundation, to Naugler Bros., 117 Brooks St., Brunswick. Archts. est. $150,000. Noted July 6.

Mass., Boston—STORE—E. T. Slattery Co., 155 Tremont St., altering and constructing 5 story and basement, brick addition, plain foundation, to Olympia Constr. Co., 333 Washington St. Archts. est. $150,000.

Mass., Framingham — HOSPITAL — Framingham Hospital, G. A. Avery, chn., 3 story and basement, brick and steel addition, to J. J. Prindiville Co., Prindiville Bldg. Archts. est. $350,000. Noted Jun. 30.

Mass., Greenfield — HOTEL — Weldon Hotel Corp., J. T. Sellw, mgr., altering and constructing 3 story and basement, brick addition, plain foundation, High St. to W. M. Bailey Co., 88 Broad St., Boston, Archts. est. $150,000. Noted June 30.

Mass., Lowell—THEATRE—R. E. Brown, Elm St., Andover, will build 2 story and basement, 60x100 ft., brick and steel, plain foundation. East Merrimac St. $150,000. Work to be done by separate contracts. C. L. Kemp, 8 Platt St., Lawrence, archt. Noted July 14.

Mass., Quincy (Boston P. O.)—APARTMENT—F. Diliberto, 11 Beacon St., Boston, will build 3 story and basement, 100x 140 ft., brick and stone, plain foundation, Wollaston Dist. $150,000. Work to be done by separate contracts. R. M. Stowell, 184 Boylston St., Boston, archt.

Mass., Somerville (br. Boston)—Y.M.C.A., E. W. Houghton, 37 Medford St., 4 story and basement, brick, plain foundation, 101 Highland Ave., to J. Hartwell Co., 46 Cornhill, Boston, Archts. est. $175,000. Noted July 14.

R. I., Providence — STORAGE and WAREHOUSE—Belcher & Loomis Co., 89 West Exchange St., H. B. Read, pres., 4 story, 110 x 120 ft., rein.-con. and brick, plain foundation, to Aberthaw Co., 80 Federal St., Boston, Mass. Archts. est. $150,000. Noted June 14.

Conn., Hartford — WAREHOUSE — S. Kohn & Co., 241 State St., 2 story 72,000 sq.ft. floor space brick and steel, Windsor St., to G. Cudemo & Southern New England Constr. Co., 168 Temple St., Archts. est. $160,000.

Conn., Middletown — BANK—Middlesex Mutual Assurance Co., brick, steel and stone, Broad and Court Sts., to H. Wales Lines, 134 State St., Meriden.

N. Y., Buffalo—COURT HOUSE—J. Moore, comr. Park & Pub. Buildings, City and County Hall, 8 story, fireproof, Delaware Ave. and West Eagle St., to Mosier & Summers, 1266 Seneca St. Noted June 23.

N. Y., Mount Vernon—PROFESSIONAL —Mahlstedt-Steen Securities Co. (owner and contractor) 52 Vanderbilt Ave., New York City, will build 5 story, 100 x 126 ft. rein.-con., brick and steel, plain foundation, 117 South 2nd Ave. $300,000.

N. Y., New York—APARTMENTS—Rhinelander Estate, c/o F. M. Volk, 31 Nassau St., two 11 story and basement, brick, steel and stone, concrete foundation, 119-37 Lexington Ave., to J. H. Taylor Constr. Co., 31 Union Sq. Archts. est. $500,000 each. Noted June 9.

N. Y., New York—APARTMENT—Bronx Park East Contr. Co., 363 Willetts Ave., will build 6 story, 87 x 150 ft., brick, steel, plain foundation, Seneca and Bryant Aves., $250,000. Work will be done by separate contracts. Franklin Bates & Heinsman, 2526 Webster Ave., archts.

N. Y., New York—APARTMENT—Solomon & Kahn, 475-5th Ave., will build 15 story, 65 x 100 ft., brick and steel, plain foundation, 179 East 79th St. $460,000. Work will be done by separate contracts. Gronenberg & Leuchtag, 1385 Bway., archts.

N. Y., New York—APARTMENT—D. Zimmerman, 1431 Bway., will build 15 story, 90 x 100 ft., brick and steel, 1231 Park Ave. $75,000. Work will be done by separate contracts. Gronenberg & Leuchtag, 1385 Bway., archts. Noted Oct. 7.

N. Y., New York—FURNITURE STORE —A. Finkenbergs Sons, 2279 3rd Ave., 5 story, 80 x 225 ft., brick and steel, concrete foundation, 59th St., Lexington and 3rd Aves., to Kidansky & Levy, 424 Madison Ave. Archts. est $400,000.

N. J., Bogota (br. Hackensack)—THEATRE, STORE and OFFICE—Owner, c/o W. E. Lehman, archt., 972 Broad St., Newark, general contract 2 story and basement, brick and steel, plain foundation, Queen Ann Ave. and Cypress St., to Heller Constr. Co., 972 Broad St., Newark, archts. est. $500,000.

N. J., East Orange—APARTMENT—Feldman & Pivnick, Inc., c/o R. Botelli, 45 Branford St., Newark, will build 4 story, 60 x 140 ft., brick and steel, plain foundation, 240 North Grove St., here. $150,000. Work will be done by separate contracts. Noted July 28.

N. J., East Orange—APARTMENT—J. Kreiger, 133 South Burnett St., will build 4 story, 75 x 160 ft., brick and steel, plain foundation, Washington St. $150,000. Work will be done by separate contracts. R. B. Bottelli, 45 Branford Pl., Newark, archt.

N. J., Newark—APARTMENT—D. R. R. Crowley (owner and archt.), 259 Weequahic Ave. will build 5 story, brick and steel, plain foundation, 689-99 Sanford Ave. $150,000. Work will be done by separate contracts.

N. J., Newark — APARTMENT — M. Shapiro, c/o R. Botelli, archt., 45 Branford Pl., will build 5 story, brick and steel, plain foundation, Elizabeth and Porter Aves. $150,000. Work will be done by separate contracts.

N. J., Oradell—CLUBHOUSE—C. C. Wendehack, archt., 101 Park Ave., New York City, general contract 2 story and basement, brick and steel, plain foundation.

Buildings—Commercial (Continued)

here, to Ferber Constr. Co., 16 Johnson Ave., Hackensack, for Hackensack Golf Club, Central Ave., Hackensack. Archts. est. $150,000. Noted June 23.

N. J., Park Ridge—BANK—Rocker, Hewson & Strassle, archts., 6 East 46th St., New York City, general contract 2 story and basement, 75 x 100 ft., brick and steel, plain foundation, here, to Alberg Constr. Co., 3 Church St., Paterson. Archts. est. $150,000. Noted June 23.

Pa., Glenshaw—CLUB HOUSE—Wildwood Country Club, c/o A. B. Snyder, archt., Butler Park, general contract 2 story and basement, irregular shaped club house, here, to Nicola Building Co., Penn and Denniston Aves., Pittsburgh. Archts. est. $200,000.

Pa., Phila.—APARTMENT—S. Kaplan, 243 South 62nd St., will build 4 story and basement, 65x125 ft., brick and steel, plain foundation, 4618 Chester Ave., $175,000. Work will be done by separate contracts. M. Bohrer, 1032 North 67th St., archt.

Pa., Phila.—APARTMENT—J. Gorchov, 4116 Germantown Ave., will build 4 story and basement, 48x130 ft., brick and steel, plain foundation, 40th and Baltimore Sts. $150,000. J. E. Fieldstein, Otis Bldg., archt.

Pa., Phila.—LOFT—B. F. Cohn, Widener Bldg., 20 story and basement, 86 x 106 ft., rein.-con., brick and steel, plain foundation, 1202-10 Filbert St., to Taylor-Meyer, Keystone Bldg., Pittsburgh. $1,250,000. Noted July 14.

Pa., Phila.—THEATRE—Brown Bros., 4729 Baltimore Ave., will build 1 story and basement, 76 x 263 ft., rein.-con., brick and steel, plain foundation, 47th and Baltimore Sts. $250,000. I. W. Levin, 1011 Chestnut St., archt. Work to be done by separate contracts. Noted Mar. 1, 1926.

N. J., Rutherford—APARTMENT—Magnolia Constr. Co., 1 Magnolia Ave., Jersey City, will build 4 story, 85 x 100 ft. brick and steel, plain foundation, 64 Ettrick Terrace, here. $200,000. Work will be done by separate contracts. J. Stollman, 90 Waldo Ave., Jersey City, archt. Noted July 14.

Va., Richmond—APARTMENT—Monroe Terrace Interests, 12 story, brick, steel and stone, plain foundation, Franklin and Pine Sts., to Wise Granite & Constr. Co., 818 West Main St., and A. J. Saville, Inc., Electric Bldg., $1,100,000. Noted Feb. 3.

Ala., Birmingham—OFFICE—Southern Life & Health Insurance Co., 308 North 21st St., 4 story, 75 x 100 ft., concrete and stone, Highland Ave. and Ash St., to Warren, Knight & Davis, Empire Bldg., $200,000.

O., Cleveland—COMMERCIAL, APARTMENT and THEATRE—M. B. Horwitz, Film Exch. Bldg., 2 story and basement, 81 x 192 ft., brick, steel and concrete, East 84th St. and Hough Ave., to Boldt Constr. Co., 1969 East 70th St. Archts. est. $250,000. Noted June 9.

O., Cleveland — SANITARIUM — H. H. Timken, pres. Timken Roller Bearing Co., 15th St. S.W., Canton, 5 story, 64 ft. high, steel, East 185th St. and Lak Shore Blvd., here, to Melbourne Constr. Co., 1220 9th St. N.E., Canton. Archts. est. $200,000.

O., Cleveland — WAREHOUSE—Ohio Terminal Co., c/o S. Malbin, 2704 East 34th St., 8 story and basement, 500,000 cu.ft., floor space, rein.-con. and brick, Croton Ave., to J. Boman, 1679 Coventry Rd., Cleveland Heights. Archts. est. $400,000.

O. Cleveland—WAREHOUSE, BOILER HOUSE and STEAM ROOM—Great Western Oil Co., B. W. Brown, pres, 2846 East 37th St., 2 story, 60 x 180 ft. warehouse, 22 x 23 ft. boiler house, and 20 x 30 ft. steam room, rein.-con., brick and steel, East 37th St., to H. K. Ferguson Co., 4900 Euclid Ave. Archts. est. $75,000.

O., Cleveland — WAREHOUSE — Sheets Elevator Co., J. M. Sheets, pres., 6529 Bway., 4 story and basement, 110 x 113 ft., brick and steel, 6529 Bway., to A. A. Lane Constr. Co., 1869 East 55th St. Archts. est. $175,000.

O., Cleveland Heights (br. Cleveland)—APARTMENT—Goodman-Shapiro Co., 636 Engineers Bldg., Cleveland, 3 story and basement, 55 x 130 ft., brick, Middlehurst Rd., here, to M. Berkoff, 3346 Washington Blvd. Archts. est. $150,000. Noted May 5.

O., East Cleveland (br. Cleveland)—TEMPLE—East Cleveland Masonic Temple Building Co., c/o C. N. Herringshaw, pres., 14213 Euclid Ave., Cleveland, 2 story and basement, 50 x 120 ft., brick, steel and concrete, Belmore Rd., to R. E. Nivon, 2036 East 105th St. Archts. est. $150,000.

O., St. Bernard—BANK—Citizens Natl. Bank, Carthage Pk., 3 story and basement, 46 x 80 ft., brick and rein.-con., plain foundation, Main Ave., to P. A. Jones Co., Main Ave., $140,000.

Ind., Indianapolis — APARTMENT — Llanhurst Realty Co., general contract 3 story and basement, 84 x 202 ft., rein.-con., brick and steel, to A. Baynham & Co., 609 Chamber of Commerce Bldg. Archts. est. $225,000.

Mich., Detroit—HOSPITAL—Detroit Bd. Health, 1300 Beaubien St., 6 story and basement, 500 bed, rein.-con., brick and steel, plain foundation, Hamilton Ave., to W. E. Wood Co., 1805 Ford Bldg. $2,378,219.

Mich., Detroit — OFFICE — Union Trust Co., Griswold St., superstructure for 45 story and basement, rein.-con. brick and steel, Fort and Griswold Sts., to A. A. Albrecht Co., 1117 Penobscot Bldg. Noted Apr. 28.

Mich., Detroit—OFFICE and LOFT—J. J. Garrison, 144 Lafayette St., 7 story, 50 x 120 ft., rein.-con. and brick, plain foundation, Jefferson Ave., to Austin Co., General Motors Bldg. Archts. est. $300,000.

Ill., Chicago—APARTMENT—S. Sackheim, c/o Cable & Spitz, archts., 220 South State St., masonry contract 3 story and basement, 228 x 167 ft., Home and Hayne Aves., to J. Erickson & Son, 1424 Elmdale Ave. Archts. total est. $257,000.

Ill., Chicago—APARTMENT HOTEL—Grandeur Apartment Hotel Co., c/c P. T. Johnstone, archt., 35 East Wacker Dr., masonry and concrete contract 12 story and basement, 45 x 150 ft. apartment hotel, Granville and Winthrop Aves., to Complete Artificial Stone Co., 3310 Belmont Ave.; carpentry, to Chell & Anderson, 11 South La Salle St.; and plastering, to Tobin Plastering Co., 6316 Bway.

Ill., Chicago—CLUB—Granger & Bollenbacher, archts., 332 South La Salle St., 8 story and basement, 72 x 80 ft., rein.-con., brick and terra cotta, addition, plain foundation, Van Buren and South Michigan Aves., to E. L. Scheidenhelm Co., 111 West Monroe St., for Chicago Club, Van Buren and South Michigan Aves. Archts. est. $1,000,000. Noted May 26.

Ill., Chicago—GARAGE—A. S. Alschuler, archt., 28 East Jackson Blvd., masonry and carpentry contract 10 story and basement, 100 x 124 ft., rein.-con. and brick, 318-28 Federal St., to R. F. Wilson & Co., 1851 Elston Ave., for Ramp Building Corp., 21 East 40th St., New York City. Archts. est. $1,200,000.

Wis., Beaver Dam — HOTEL — Hutter Realty Co., 134 Western Ave., Fond du Lac, 5 story and basement, 54 x 168 ft., rein.-con., brick and steel, plain foundation, here, to Hutter Constr. Co., 134 Western Ave., Fond du Lac, excavation and foundation, to R. P. Suttlefield, Madison. Archts. est. $250,000.

Wis., Beloit—HOSPITAL—City, general contract 4 story and basement, 50 x 165 ft., rein.-con., brick, hollow tile and precast stone, plain foundation, to Pehrson Bros., 555 Gateway Bank Bldg., Minneapolis, Minn., $121,780. Noted Sept. 30.

Built-up roof, steam heat, passenger elevator, etc.

Wis., Chippewa Falls—HOSPITAL—St. Josephs Hospital, general contract 3 story and basement, 44 x 120 ft., rein.-con., brick and steel, plain foundation, to Hoeppna-Bartlett Co., Chippewa Falls. Archts. est. $150,000. Noted Mar. 17.

Wis., Pulaski — BANK — Liberty State Bank, will build 2 story and basement, 96 x 150 ft., rein.-con., brick and steel, plain foundation, here, by day labor. Oppenhamer & Obel, Bellin Bldg., Green Bay, archts.

Mo., St. Louis—BANK—Tower Grove Bank, 3134 South Grand Blvd., remodeling and constructing 2 story and basement, 39 x 45 ft., rein.-con., brick and stone addition, to St. Louis Bank Building & Equipment Co., 9th and Sidney Sts. Archts. est. $150,000.

Mo., St. Louis—STORE and APARTMENT—Northwestern Corp., c/o Klingenschmidt, Rice & Wilkins, archts., 1217 Louderman Bldg., general contract 2 story and basement, 40 x 56 ft. and 50 x 200 ft., rein.-con. and brick, incl. 14 garages, etc., West Florissant and Floy Sts., to Wilkins & Phillips, Compton Bldg. Archts. est. $150,000. Noted June 9.

Tex., Abilene — HOTEL — Abilene Hotel Co., 9 story and basement, 100 x 140 ft., rein.-con., brick and stone, 4th and Pine Sts., to R. E. McKee, El Paso, $400,000.

Tex., Abilene—STORE and OFFICE—G. L. Paxton & W. G. Swenson, 8 story, 50 x 140 ft., rein.-con., brick, and hollow tile, North 3rd and Cypress Sts., to R. E. McKee, El Paso, $224,000. Noted June 2.

Tex., Dallas—MEDICAL ARTS—Carey-Schneider Investment Co., 217 Medical Arts Bldg., 17 story, brick, stone, terra cotta and steel annex, Pacific and St. Paul Sts., to McKenzie Constr. Co., 707 Santa Fe Bldg., $800,000. Noted May 26.

Tex., Houston—BANK and OFFICE—San Jacinto Trust Co., c/o G. Howard-Humble Bldg., 4 story (ultimately 23 story), 60 x 127 ft., Main and Lamar Sts., to D. Hall, Cotton Exch. Bldg. Archts est. $200,000. Noted July 7.

Tex., Odessa—HOTEL—G. D. Elliott, 3 story and basement, 75 x 102 ft., brick and stone hotel, to H. C. Allen, Odessa, $160,000.

Tex., Port Lavaca—HOTEL—Bay Side Beach, Inc., 304 Texas Bldg., San Antonio, general contract 3 story and roof garden, rein.-con., brick, hollow tile and stucco, plain foundation, Bayside Beach, near here, to B. & B. Constr. Co., 844 Rush St., Chicago, Ill., $400,000. Noted July 7.

Tex., San Antonio—HOTEL—Smith Bros. Properties, Inc., c/o Plaza Hotel, general contract 12 story and basement, rein.-con., brick, stone and steel, plain foundation, St. Mary's St., to McKenzie Constr. Co., Travis Bldg., approximately $600,000.

Ore., Astoria—THEATRE—Washington Theatre Enterprises, Lloyd Bldg., Seattle, Wash., rebuilding 3 story, 50 x 108 ft., rein.-con. and brick, concrete foundation, 11th and Commercial Sts., here, to Friburg & Knudson, Portland, $200,000. Noted July 21.

Ore. Eugene — EXCHANGE — Pacific Telephone & Telegraph Co., general contract 3 story and basement, 70 x 76 ft., rein.-con. and steel, plain foundation, 10th and Oak Sts., to J. W. Swope, Eugene, $200,000.

Calif., Fresno—THEATRE—L. L. Cory, Cory Bldg., Class "A" theatre, 1,300 seating capacity, to C. H. Peterson, 520 California St., $150,000. Noted Feb. 11.

Calif., Los Angeles—APARTMENT—R. Auer, Black Bldg., will build 3 story and basement, 50 x 108 ft., brick, Edgewood Pl., by day labor. $160,000.

Calif., Los Angeles—APARTMENT—H. K. Elder, 5 story and basement, brick, South Hobart Blvd., to J. T. Bibb, 214 North Grand Blvd., Glendale, approximately $150,000.

Calif., Los Angeles—APARTMENT—El Paula Holding Co., 4 story and basement, 112 x 200 ft., Western Ave. near Hollywood Blvd., to H. N. Dickerman, 315 West 9th St., $600,000.

Calif., Los Angeles — GARAGE — Normandie Impvt. Syndicate, 6 story and basement, 100 x 125 ft., rein.-con., 8th St. and Normandie Ave., to S. C. Clark, 6001 Santa Monica Blvd., $165,000.

Calif., Los Angeles—STORE and APARTMENT—H. N. Dickerman, Pacific Natl. Bank Bldg., will build 4 story and basement, 112 x 220 ft., brick, Western Ave., by day labor. $150,000 or more. R. D. King, Van Nuys Bldg., archt.

Calif., Los Angeles—STORE and LOFT—Hollywood-Vine Syndicate, c/o F. R. Dorn, archt., Rives-Strong Bldg., 11 story and basement, 100 x 150 ft., rein.-con., Vine St. and Hollywood Blvd., to Scofield Eng. Constr. Co., Pacific Finance Bldg., approximately $750,000. Noted Jan 13.

Calif., Merced—HOTEL and STORE—Denton & Gardner, 180 Turk St., San Francisco, 5 story and basement, rein.-con., 17th St. and Courthouse Dr., to R. McLeran & Co., Hearst Bldg., San Francisco, approximately $350,000.

Calif., Oakland—BANK and OFFICE—Bank of Italy, Powell and Eddy Sts., San Francisco, 1 story, 68 x 100 ft., rein.-con., 94th Ave. and East 14th St., here, to K. E. Parker, 135 South Park St., San Francisco, $155,500. Noted Feb. 3.

Calif. Oakland — HOSPITAL — Owner, c/o F. Reimers, archt., Tribune Bldg., 4 story and basement hospital, East 14th St., to C. W. Heyer, Jr., Mills Bldg., $175,000.

Calif., Oakland—TERMINAL—C. Gordon, c/o F. Spitzer, engr., 251 Kearny St., San Francisco (1st unit) 1 story, 120 x 120 ft., brick and steel, 26th and Magnolia Sts., to Mattock & Feasey, 210 Clara St., San Francisco.

Calif., Oroville—THEATRE—T. & D. Jr., and West Coast Theatres, Inc., 580 Market St., San Francisco, concrete, 1,500 seating capacity, Meyers and Robinson Sts., to F. Salih, Detwiler Bldg., Los Angeles, $250,000. Noted Apr. 7.

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Buildings—Commercial (Continued)

Calif., Pasadena — STORE — Pasadena Holding Co., c/o Marston, Van Pelt & Maubury, archts., 25 South Euclid Ave., 1 and 2 story, brick, Colorado St., to W. A. Taylor & Sons, 32 West Union St., approximately $150,000.

Calif., San Bernardino — STORE and THEATRE—W. O. Harris, et al, rein.-con. theatre, 2,500 seating capacity, 4th St., to F. Solt, 5416 Ruthelen St., Los Angeles, $200,000. Noted June 23.

Calif., San Bruno — THEATRE — C. E. Peterson, c/o N. R. Coulter, archt., 46 Kearny St., San Francisco, 75 x 135 ft., rein.-con. and steel theatre, to C. S. Mabrey, Ochsner Bldg., Sacramento, $165,000.

Calif., San Francisco—HOTEL—Huckin's Hotel System, c/o Weeks & Day, archts., Financial Center Bldg., 22 story and basement, rein.-con. and steel, Powell and Cutter Sts., to Lindgren & Swinerton, 225 Bush St., $2,000,000.

Calif., San Francisco—STORE—I. Magnin Co., Geary and Grant Aves., 8 story and basement, rein.-con., Geary and Grant Aves., to Macdonald & Kahn, Financial Center Bldg., $500,000. Noted July 28.

Calif., Santa Barbara — HOTEL and STORE—W. S. Seamans, W. A. Brown, et al, Cabrillo Bldg., will build 3 story and basement, brick, Coast Highway, by day labor. $150,000. E. L. Mayberry, 122 West 7th St., Los Angeles, archt.

Calif., Stockton—TERMINAL—Western Pacific R.R. Co., J. W. Williams, ch. engr., Mills Bldg., San Francisco, 60 x 700 ft. warehouse, 600 ft. wood pile dock, 700 ft. timber wharf, pile trestle approaches, 11 mi. track, 7 timber bridges, etc., here, to W. A. Bechtel Co., 625 Market St., San Francisco, approximately $200,000.

Calif., Woodland—HOTEL and STORE—Weeks Investment Co., 369 Pine St., San Francisco, will build 4 story and basement, concrete, Main and College Sts., here, by day labor and sub-contracts. $245,000. W. H. Weeks, 369 Pine St., San Francisco, archt. Noted May 19.

Ont., Oshawa—OFFICE—General Motors of Canada, 4 story and basement, 48 x 320 ft., rein.-con., brick and steel, plain foundation, William St., to Jackson Lewis Constr. Co., Ltd., Federal Bldg., Toronto, Archts. est. $300,000. Noted June 2.

Ont., Toronto—APARTMNET—J. A. Cudmore, 84 Castle Frank Rd., general contract 3 story and basement, brick and steel, plain foundation, Broadview Ave., to J. Gordon, 885 Broadview Ave. Archts est. $150,000.

Ont., Toronto — APARTMENT — Lawton Manor Apartments, c/o V. L. Morgan, archt., 317 St. Clements Ave., masonry contract 3 story and basement, rein.-con., brick and steel, plain foundation, Lawton Blvd. and Lonsdale Rd., to Monkman & Quincy, 55 Millwood Rd.; steel, to Reed & Brown, 63 Esplanade E; steel joists, to Sarnia Bridge Co., Federal Bldg.; carpentry, to Federal Building Co., McGill & McGeachie, 1342a St. Clair Ave., W. Archts. est. $175,000.

Ont., Toronto—OFFICE and GARAGE—G. A. Stimson & Co., 300 Bay St., general contract 10 story and basement, 158 x 210 ft., rein.-con., brick, steel and cut stone Front and Bay Sts., to Carswell Constr. Co., Ltd., C.P.R. Bldg., Toronto. Archts. est. $1,500,000.

Buildings—Industrial

Proposed Work

N. H., Lebanon—BAKERY—Nat. Biscuit Co., c/o Wells & Hudson, archts., Hanover., having preliminary plans prepared 2 story, probably brick and stone, here. $40,000.

Mass., Attleboro—PLANT—Amer. Reinforced Paper Co., 45 County St., having preliminary plans prepared by C. T. Main, 201 Devonshire St., Boston, paper manufacturing plant, Starkey St. $40,000 or more. Noted July 23.

Mass., Boston—SALES SERVICE AND REPAIR GARAGE — Argonaut Realty Corp. (div. General Motors), H. G. Hickey in charge, having plans prepared by A. Kahn, Inc., Marquette Bldg., Detroit, Mich., 2 story, rein.-con., plain foundation, $50,000 or more.

Mass., Cambridge (Boston P. O.)—REPAIR AND SERVICE GARAGE—McSorly Bros., Bway. Garage, 456 Bway, having sketches made by H. M. Ramsey, 184 Boylston St., Boston, 1 story, rein.-con. addition, plain foundation, $45,000.

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Mass., Holyoke—DYE WORKS—Barowski Bros., 78 Appleton St., having plans prepared by G. P. B. Alderman & Co., 316 High St., 1 story and basement brick, plain foundation, Elm St. $40,000 or more.

Mass., Lowell—PUBLISHING PLANT—Courier-Citizen Co., having plans prepared by H. P. Graves, 40 Middlesex St., altering and constructing 4 story, brick, publishing plant, incl. concrete press foundations and steel bridge, Jackson St., $40,000.

Mass., Medfield — FACTORY — Amer. Brick Co., c/o H. L. Kennedy, archt., 80 Boylston St., Boston, had plans prepared altering and constructing 1 story brick and steel addition, plain foundation, here. $40,000.

Mass., New Bedford — REPAIR and SERVICE GARAGE—City, W. P. Hammersley, Municipal Bldg., plans 1 story, brick, plain foundation, Smith St. $50,000. Private plans.

Conn., New Haven—GARAGE—Connecticut Co., 185 Church St., had plans prepared by R. W. Foote, 185 Church St., 1 story, 35 x 200 ft., brick and concrete addition, Grand Ave. $45,000.

Conn., Somersville—PLANT—Somersville Mfg. Co. had plans prepared 4 story, 30 x 120 ft. addition to main plant, also 2 story addition over Scantic River connecting plants each side, and later 2 story, 56 x 142 ft. dyehouse, all brick and steel. $125,000. Private plans.

Pa., Franklin — FACTORY — Ernest McGeorge, archt. and engr., 3030 Euclid Ave., Cleveland, O., takes bids about Aug. 5, three 1 story factory buildings 60 x 330 ft., 100 x 293 ft. and 130 x 220 ft., brick and steel, here, for Chicago Pneumatic Tool Co., 572 Randolph St., Chicago, Ill. Noted July 14.

Pa., Pottstown — KNITTING MILL — Vaughan Knitting Co., Washington and Laurel Sts., having plans prepared by A. S. Kepner, 121 North Hanover St., Phila., 2 story and basement, 60 x 120 ft., Washington and Laurel Sts.

Tex., San Antonio—CAKE PLANT—Colonial Cake Co., c/o D. T. Perry, Block South Laredo and Santa Rosa Ave., having preliminary plans prepared 3 story and part basement, rein.-con. brick and tile, addition, plain foundation. $200,000. Private plans.

Tex., San Antonio—FACTORY—Gebbhardt Chilli Powder Co., 112 South Frio St., having plans prepared by J. M. Marriott, Frost Bldg., 2 story, 70 x 100 ft. factory, 1,800 Block, South Laredo. $60,000 including equipment.

Tex., San Antonio—GARAGE—Goad Motor Co., Navarro and Augusta Sts., had plans prepared by H. P. Smith, archt. and engr., c/o Bank of Commerce Bldg., and takes bids about Aug. 10, 2 story (ultimately 3 story), 165 x 167 ft. rein.-con., brick, hollow tile and stucco, plain foundation, incl. offices, showrooms, etc., Dallas and Lexington Sts. $125,000.

Tex., San Antonio—CREAMERY—Dairymens' Co-operative Assn., c/o L. C. Laney, 104 East Josephine St., takes bids about Sept. 7, fireproof building, approximately 1,000 gal. Grade "A" raw and pasteurized milk per hr. $200,000 incl. machinery and equipment, etc. Private plans.

Tex., Snyder—COTTON GIN—J. R. Joyce & Son having plans prepared rebuilding fireproof cotton gin, recently destroyed by fire. $42,000. Private plans.

Tex., Temple—GAS PLANT—See "Unclassified under Texas."

Wash., Kelso — PULP and PAPER PLANT—E. Knight plans pulp and paper plant. $150,000.

Calif., Alhambra—FACTORY—Reliance Mfg. Co. 1020 South Bway., Pasadena plans large plant on 2 acre site, Meridian Ave. $150,000. Engineer and architect not selected.

Calif., Los Angeles—PRINTING—A. D. Van Vranken, 756 South Spring St., plans printing building, 12th St. and Grand Ave. To exceed $150,000. Engineer and architect not selected.

Calif., San Francisco — COOPERAGE PLANT—Bauer Cooperage Co., 500 Hampshire St., plans cooperage plant in southern section of city. To exceed $40,000.

Ont., Hamilton — FACTORY — Firestone Tire & Rubber Co., Beach Rd., having plans prepared factory addition. $60,000. C. A. Meyers, c/o owner, engr.

Ont., Kincardine — FACTORY — Andrew Malcolm Furniture Co., J. Malcolm, genl. mgr., plans 3 story, 50 x 100 ft. addition. $50,000.

Ont., Oshawa—BODY PLANT—General Motors of Canada Ltd., having plans prepared by Hutton & Sauter, 6 James St. S. and soon take bids 3 story, 90 x 300 ft. rein.-con., brick and steel addition plain foundation, Division St. $250,000.

British Columbia—ICE STORAGE PLANT—Canadian Natl. Rys., Montreal, Que., C. S. Gzowski, ch. constr. engr. having plans prepared ice house at Prince Rupert, and extending ice storage house at Kamloops, here. $50,000.

Bids Desired

Mass., Holyoke—PLANT—General Cleaners & Dyers Inc., 403 High St., taking bids 1 story and basement, 50 x 75 ft., brick, plain foundation, 361 South St., G. P. Alderman & Co., 316 High St., archts.

Conn., Hartford—SERVICE STATION, etc.—Aug. 6, by White Co., B. M. Holden, 750 Main St., 1 story, 150 x 150 ft., brick, steel and concrete, Maple Ave. $100,000. Private plans. Noted July 6.

N. Y., Syracuse—SALES and SERVICE—Aug. 9, by White Motor Co., c/o H. R. Hadlow, engr., 842 East 79th St., Cleveland, O., 1 story, brick and concrete auto sales and service building, here. $150,000. Private plans. Noted Dec. 9.

Pa., Phila.—BAKERY, GARAGE, etc.—Aug. 22, by C. Bloomstock, archt., 110 West 40th St., New York City, 3 story and basement, bakery; 1 story, 61 x 191 ft. garage; and 2 story, 93 x 189 ft. stable, all rein.-con., brick and steel, Godfrey St. and Rising Sun Ave., for General Baking Co., Broad and Butler Sts., here.

Ind., South Bend—MACHINE SHOP and SERVICE STATION—Heckaman & Heckaman taking bids 1 story and basement, brick and steel, Jefferson St. and Lincoln Way. $47,000. W. W. Schneider, Conservative Life Bldg., archt.

Wis., Green Bay—SHOP—See "Contracts Awarded."

Wis., Sheboygan—SERVICE STATION—W. C. Weeks, archt., Ontario Ave., taking bids 1 story, 53 x 66 ft., rein.-con., brick and steel, plain foundation, Indiana Ave., for Schniderwind & Zehms, 1401 Indiana Ave. $40,000.

Wis., Wausau—SHOP—See "Contracts Awarded."

Calif., Pacific Grove—FACTORY and WAREHOUSE—See "Contracts Awarded."

Calif., San Francisco—PAPER BOX FACTORY—See "Contracts Awarded."

Contracts Awarded

Mass., Brookline (br. Boston)—REPAIR SHOP and GARAGE—Hotel Beaconsfield, 1731 Beacon St., 1 story, 15,000 sq.ft. floor space, rein.-con., plain foundation, Beacon St., to N. Hurwitz, 294 Washington St., Boston. $70,000. Noted June 30.

Mass., Cambridge (Boston P. O.)—SHOP, etc.—W. G. Galgay, 718 Massachusetts Ave., 3 story, brick, plain foundation and 2 greenhouses, Prospect and Harvard Sts. to M. W. Ryan, 763 Massachusetts Ave. Archts. est. $40,000.

Mass., Cambridge (Boston P.O.)—GARAGE—Natl. Biscuit Co., 85 9th Ave., New York City, 1 story, 150 x 200 ft., rein.-con. and brick addition, plain foundation, Albany and Pacific Sts., to H. L. Hauser Building Co., 263 Summer St., Boston. Archts. est. $85,000. Noted July 6.

Mass., Fall River—REPAIR and SERVICE GARAGE—D. J. Dennis, 6th St., 1 story and basement, rein.-con. and brick addition, plain foundation, to A. W. McQuillan, 6th St. $45,000.

Mass., Holyoke—GARAGE and REPAIR SHOP—F. Rainault, c/o F. H. Franz, 276 High St., archt., 1 story, 75 x 120 ft., rein-con., brick and steel, plain foundation, to Martin Bros., 21 Temple St. Archts. est. $50,000.

Mass., Watertown (Ind. br. Boston)—CREAMERY and ICE PLANT—Lyndonville Creamery Assn., Elm St., 2 story, 47 x 65 ft., brick, Elm St., to J. W. Duff, Inc., 145 Summer St., Boston. Archts. est. $40,000.

R. I., Providence—REPAIR and SERVICE GARAGE, etc.—White Co., A. Hadlow, mgr., East 79th St. and St. Clair Ave., Cleveland, O., (1st unit) 1 and 2 story, 102 x 200 ft., brick, steel and concrete, Branch Ave. and Dryden Lane, here, to Aberthaw Co., 80 Federal St., Boston, Mass. Noted July 6.

R. I., Providence—SERVICE, WAREHOUSE and STORAGE—Belcher & Loomis Realty Co., 80 Weybosset St., 4 story, 110 x 120 ft., rein.-con. plain foundation, West Exchange and Mason Sts. to Aberthaw Co., 80 Federal St., Boston, Mass., Archts. est. to exceed $40,000.

Buildings—**Industrial (Continued)**

Conn., Hartford—REPAIR and SERVICE GARAGE—O'Meara Motor Co., 997 Main St., East Hartford, 2-story, brick, steel and artificial stone, Connecticut Blvd. and Darlin St., to O'Meara c/o owner. Archts est. $75,000.

Conn., Hartford — TOBACCO ASSORTING MILL—Hatheway & Steane, 235 State St., general contract 2 story, 86 x 132 ft., brick addition, Commerce St., to Industrial Contr. Co., 721 Main St. Archts. est. $45,000.

Conn., Hartford—SERVICE STATION, etc.—Owner c/o R. J. Farrell, 10 Irving St., 1 story, brick, steel and concrete, Farmington Ave., to O. H. Smith, 15 Brunswick Ave. Archts. est. $60,000.

Conn., New Haven—GARAGE—Connecticut Co., 236 Church St., J. K. Punderford, pres., 1 story, 35 x 200 ft. brick and concrete addition, Grand Ave., to C. W. Murdock Co., 505 Grand Ave. Archts. est. $45,000.

N. Y., Brooklyn—FACTORY—Mergenthaler Linotype Co., 29 Ryerson St., 8 story, sub-basement and basement, 70 x 304 ft., rein.-con. concrete foundation, 14-22 Ryerson St., to Industrial Eng. Co., 50 Church St., New York City. Archts. est. $400,000. Noted June 23.

N. J., Newark—NEWSPAPER PLANT—H. Scudder, archt., 9 Clinton St., general contract 9 story, 37 x 115 ft., rein.-con., brick and steel, rein.-con. foundation, 215 Market St., to F. Kilgus, Inc., 13 South 6th St., Newark, for Newark Evening News, 215-17 Market St. Archts. est. $500,000. Noted May 17.

N. J., North Bergen—(Ind. br. Weehawken)—Natl. Lead Battery Co.; 1728 Roblyn Ave., St. Paul, Minn., general contract 2 story, rein.-con. brick and steel, plain foundation, 39th St., here, to Bonnanno Bros., 988 Bergenline Ave., Union City. Archts. est. $150,000.

N. J., Teaneck (mail Englewood)—POWER HOUSE—V. Reeser, archt., 55 West 42nd St., New York City, general contract 2 story, brick and steel, plain foundation, to J. L. Bried, West St., Englewood, for Holy Name Hospital here. Approximately $50,000. Noted June 9.

Pa., Carlisle — CARPET MILL — C. H. Masland Son, Inc., Amber and Westmoreland Sts., Phila., 1 story and basement, 167 x 210 ft., brick and steel, plain foundation, to Curtis Grinrod, 10 South 18th St., Phila.

Pa., Scranton — FACTORY — Anthracite Overall Co., 340 Penn St., 2 story and basement, 109 x 120 ft., brick and steel, plain foundation, 4th and Penn St., to T. Palmer, Miller Bldg.

La., Southport—CAR WHEEL PLANT—Hannibal Car Wheel & Fdry. Co., Hannibal, Mo., 200 x 200 ft. foundry, 43 x 104 ft. machine shop, and 2 story, 38 x 38 ft., brick and concrete office building, here, to Austin Co., 6112 Euclid Ave., Cleveland, O.

O., Akron—FACTORY—General Tire & Rubber Co., 1708 East Market St., three 1 and 4 story, brick and steel buildings to Clemmer & Johnson, 470 East Market St. Archts. est. $250,000.

O., Chillicothe — REPAIR GARAGE — Dept. Hys. & Pub. Wks., Ohio Hartman Bldg., Columbus, 1 story, 80 x 300 ft., brick and concrete, here, to McCurran Bros., Xenia, $42,720. Noted June 10.

O., Cleveland—FACTORY—Amer. Brass Mfg. Co., J. Arth, pres., 1525 East 49th St., 2 story, 20 x 70 ft., brick and steel addition, to F. Rothenbecker, 1222 Rozelle Ave, Archts. est. $40,000. Noted June 23.

O., Cleveland—FACTORY—Amer. Stamping Co., E. H. Krueger, secy., 978 East 64th St., 1 story, 51 x 148 ft. brick and steel, 985 East 63rd St., to R. P. Adams, 975 Roanoke Rd. Archts. est. $40,000.

O., Cleveland — FACTORY — Carnegie Body & Top Co., E. S. Eckstein, secy.-treas., 6115 Carnegie Ave., 1 story, 85 x 92 ft., brick and steel, 6115 Carnegie Ave., to E. Friedman, 961 Paxton Rd., Cleveland Heights. Archts. est. $40,000. Noted June 14.

O., Cleveland—FACTORY — Cleveland Twist Drill Co., 1242 East 49th St., 1 story, 80 x 140 ft. brick and steel, 4717 St. Clair Ave., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $40,000.

O., Cleveland—FOUNDRY—City Foundry Co., W. C. Sayle, secy.-treas., 4629 Hamilton Ave., 1 story, 60 x 120 ft., brick and steel, 4629 Hamilson Ave., to Austin Co., 16112 Euclid Ave. Archts. est. $50,000. Private plans.

O., Fostoria—FACTORY—Ohio Farmers Co-Operative Milk Assn., J. J. Prindle, pres., 3068 West 106th St., Cleveland, 1 story, 54 x 120 ft., brick and steel, here, to H. Gage Constr. Co., Tiffin. Archts. est. $60,000.

Ind., Elkhart—MACHINE SHOP and GARAGE—Kilbury Auto Co., general contract 2 story and basement, 100 x 120 ft., brick and steel, to A. H. Kilbury, Elkhart. $45,000.

Ind., Elkhart — BOILER PLANT — H. Weis Mfg. Co., general contract rein.-con. brick and steel, incl. radial brick stack, unit heater boilers, to I. Mast, Elkhart archts. est. $45,000.

Ind., Logansport — CREAMERY — Burnett Bros., general contract 1 story and basement, 52 x 120 ft., brick and steel, 5th and High Sts., to H. W. Hedde, Logansport. Archts. est. $46,000.

Mich., Menominee—PACKING PLANT—Twin City Packing Co., 210 Beleview St., 2 story, 90 x 186 ft., rein.-con., brick and steel, plain foundation, to C. H. Danielson, Peshtigo, Wis., $100,000.

Mich., Muskegon—OIL BULK DEPOT—Standard Oil Co. of Indiana, 910 South Michigan Ave., Chicago, Ill., general contract rein.-con. and steel, plain foundation, Park St., here, to R. Love Constr. & Eng. Co., Union Bank Bldg., $78,000. Noted June 30.

Wis., Green Bay—HEATING PLANT—Bd. Educ., I. H. McIntyre, supt., 1 story, 60x90 ft., rein. con., brick and steel heating plant, here, for City High Schools, to Pharo Heating Co., 1302 Regent St., Madison, $89,600. Engrs. est. $90,000.

Wis., Green Bay—PLANT—Standard Oil Co., c/o G. Webb, dist. mgr., 2 story and basement, 68 x 77 ft., rein.-con., brick and steel, plain foundation, Bway., to H. J. Selmer Co., McCartney Bldg., Archts. est. $50,000.

Wis., Green Bay—MACHINE SHOP—Standard Oil Co., G. Webb, dist. mgr., 1 story, 76 x 147 ft., rein.-con., brick and steel, plain foundation, to H. J. Se'mer Co., McCartney Bldg. Archts. est. $40,000.

Wis., Green Bay—REPAIR SHOP and SERVICE STATION—G. and F. Schefe, 428 South Bway. St., 2 story, 70 x 95 ft., rein.-con., brick and steel, plain foundation, Bway. St., to N. Feldhausen, 1536 Elm St. Archts. est. $40,000.

Wis., Green Bay—REPAIR SHOP—Wisconsin Pub. Serv. Corp., Bellin Bldg., will build 2 story, 60 x 90 ft., rein.-con., brick and steel, plain foundation, Washington St., by day labor. Private plans.

Wis., Green Bay—STATION SERVICE—Greenwood Rental Co., 315 Monroe St., 1 story, 60 x 90 ft., rein.-con., brick and steel, plain foundation, here, to J. Basten, 1505 Cedar St.

Wis., Shawano—SERVICE STATION—Service Motor Co., J. Popp, prop., will build 1 story and basement, 40 x 68 ft., rein.-con., brick and steel, plain foundation, here, by day labor. $40,000. Private plans.

Wis., Sheboygan — TANNERY — Badger State Tanning Co., South Water St. and Maryland Ave., 2 story, 85 x 117 ft., rein.-con., brick and steel, plain foundation, South 11th St., to W. Guenther & Son, 1224 North 4th St. Archts. est. $40,000.

Wis., Tomah — SHOP — Chicago, Milwaukee & St. Paul R.R. Co., C. F. Lowther, ch. engr., Union Station, Chicago, Ill., 1 story, 40 x 60 ft., and 40 x 80 ft., concrete products shop, rein.-con. and timber, plain foundation, here, to J. Rinehr, Tomah. Archts. est. $40,000.

Wis., Wausau—REPAIR SHOP, etc.—Wisconsin Valley Electric Co., H. L. Gressi, mgr., 206 3rd St., will build 1 story and basement, 96 x 185 ft., rein.-con., brick and steel repair shop and car barns, plain foundation, by day labor. $42,000. Oppenhamer & Abel, Wausau, archts.

Wis., Winneconne—PLANT—Atlantic & Pacific Prud. Co., H. M. Clare, mgr., West Bend, 2 story, 75 x 80 ft., rein.-con., brick and steel concentrating plant, here, to Immel Constr. Co., Dana Bldg., Fond du Lac. Archts. est. $40,000.

Minn., Minneapolis—FACTORY—Cream of Wheat Co., D. F. Bull, treas.-mgr. 5th St. and 1st Ave. N., general contract 4 story with 6 story tower and basement, 165 x 250 ft., rein.-con., brick and stone, Bway. and Stinson Blvd., to C. F. Haglin & Sons, 920 Natl. Bldg., approximately $500,000.

Kan., Hutchinson—POWER PLANT—United Power & Light Co., rein.-con. and brick plant, to Stamley Constr. Co., Hutchinson. Archts. est. $200,000.

Tex., Abilene—ICE PLANT—O. D. Dillingham, 1 and 2 story, 87 x 126 ft., brick, steel and concrete, 75 ton capacity, to Arctic Ice Machine Co., 920 Market Ave. S., Canton, O., approximately $40,000.

Tex., Houston—WAREHOUSE—Missouri-Kansas-Texas R.R. Co., F. Ringer, Ch. engr., Ry. Exch. Bldg., St. Louis, Mo., 1 and 2 story, 50 x 380 ft., and 50 x 162 ft., rein.-con., Gable St., here, to T. J. Johnson, Sedalia, Mo., $250,000. Noted June 16.

Wash., Seattle — FACTORY — Kenworth Motor Truck Corp., E. K. Worthington, pres., 506 Mercer St., 1 and 2 story and basement, concrete and timber on 120 x 240 ft. side, Yale Ave. and Mercer St., to C. J. Disler, Lumber Exch. Bldg., $100,000 cost plus percentage basis.

Calif., Camarillo—PACKING PLANT—Oxnard Citrus Assn., Oxnard, 1 story and basement, 100 x 110 ft., rein.-con., here, to D. J. Haire, 1051 South Manhattan Pl., Los Angeles, approximately $50,000.

Calif., Los Angeles—FACTORY—Standard Upholstering Co., Central Ave., 3 story, 91 x 140 ft., brick, 15th St. and Central Ave., to S. N. Benjamin, 718 East 16th St. $49,700. Noted June 9.

Calif., Los Angeles—FACTORY—U. S. Spring Co., Inc., 1124 S. Los Angeles St. and U. S. Bumper Co., Inc., 1011 South Grand St., 1 story, 120 x 417 ft., rein.-con. and steel, 66,500 sq.ft. floor space, Magnolia Ave., to W. P. Neil Co.| Inc., 4818 Loma Vista Pl. Archts. est. $100,000.

Calif., Los Angeles—FACTORY—Woolwine Metal Products Co., 2421 East 8th St., three 1 story, brick and steel buildings, 75,000 sq.ft. floor space, 52nd St., to Austin Co. of California, 777 East Washington St., approximately $90,000. Noted July 21.

Calif., Los Angeles—FACTORY—U. S. Spring Co., 1124 South Los Angeles St., and U. S. Rubber Co., 796 South San Pedro St., 1 story, 120 x 415 ft., rein.-con., Magnolia Ave., to W. P. Neil, Inc., 4814 Loma Vista, approximately $100,000.

Calif., Oakland—BAKING PLANT—Rose Bakery Co., 22nd and Myrtle Sts., 2 story, brick, 22nd St., to A. S. Rankin, 712 Haddon Rd., approximately $42,500.

Calif., Pacific Grove—FACTORY and WAREHOUSE—Amer. Can Co., Hunter-Dulin Bldg., San Francisco, will build 1 and 2 story, rein.-con., by day labor and sub-contracts. $600,000. Noted Apr. 7.

Calif., San Francisco — PAPER BOX FACTORY—J. H. Hjul (owner and engr.,) 128 Russ St., will build 115 x 160 ft., rein.-con., 1st St. and Guy Pl., by day labor. Approximately $60,000. Raisen & Zaruba, 986 Howard St., lessee.

Calif., Stockton—PLANT—Natl. Paper Products Co., 2 story, rein.-con. addition, to Barrett & Hilp, 918 Harrison St., San Francisco, approximately $100,000. Noted July 21.

Calif., Stockton—PLANT—Union Ice & Cold Storage Co., 354 Pine St., San Francisco, rein.-con. addition, on Mormon Channel, to Lindgren-Swinerton Co., 225 Bush St., San Francisco, approximately $150,000. Noted July 14.

Ont., Oshawa—AUTOMOBILE FACTORY—General Motors Co. of Canada, general contract, 2 and 3 story, 200 x 450 ft. rein. con. brick and steel, plain foundation, to Jackson Lewis Constr. Co., Ltd., Federal Bldg., Toronto. Archts. est. $750,000. Noted June 2.

Ont., Preston—BREWERY—Rock Brewery Co., general contract 1 to 5 story and basement, 50 x 200 ft., rein.-con., brick and steel, plain foundation, to Fred Constr. Co., 6 Hughson St. N., Hamilton. Archts. est. $150,000.

Ont., Toronto—GARAGE—Dundas Motor Sales, 2295 Dundas St. W., general contract 4 story, 50 x 115 ft., brick, rein.-con. and steel, to Anglo-Canadian Eng. Co. Ltd., 111 Adelaide St. W.; concrete work, to Ramsay Contg. Co., 39 Indian Crescent. Archts. est. $150,000. Noted June 23.

Buildings—Educational, Religious

Proposed Work

N. H., Claremont—HIGH SCHOOL—Bd. Educ., F. H. Foster, chn., plans Senior and Junior High School, probably brick. $150,000 or more. Engineer and architect not selected.

Vt., Rutland—HIGH SCHOOL—Bd. Educ. having plans prepared by A. G. Creighton, 140 State St., New London, Conn., 128 x 214 ft., brick, steel and concrete, Liberty Ave. $400,000.

Mass., Beverly—LIBRARY—City, Library Comn., City Hall, plans library, probably brick and stone, Essex and Dane Sts. $150,000 or more. Engineer and architect not selected.

Mass., Billerica—SCHOOL—Town, M. A. Buck, chn. Building Com. plans school, Concord Ave. $150,000 or more. Engineer and architect not selected.

Mass., Brockton—CHURCH—St. Coleman's Roman Catholic Church, W. J. Fenessy, pastor, Wendell Ave., plans 1 story and basement, brick and stone, plain foundation, Wendell Ave. $150,000. Engineer and architect not selected.

Mass., Medford (Boston P.O.)—SCHOOL—Schoolhouse Com. had plans prepared by Desmond & Lord, 1 Beacon St., Boston, 2 story and basement, brick and stone, plain foundation, Wellington Dist. $150,000.

Mass., Medford (br. Boston)—HIGH SCHOOL—City, School Building Com., C. H. Lowell, chn., having plans prepared by C. B. Dunham, 6 Beacon St., Boston, 3 story and basement 65x240 ft. and 65x180 ft., brick, addition, plain foundation, Forest St. $600,000.

Mass., Newton Lower Falls (Ind. br. Boston)—SCHOOL—City, E. O. Childs, mayor, City Hall, Newton, having sketches made by Henry & Richmond, 12 West St., Boston, 2 story and basement, brick, plain foundation, Pine Grove Rd. and Grove St. $150,000 or more.

Mass., Revere (br. Boston)—CHURCH—Our Lady of Lourdes, J. Croman, pastor, having preliminary plans prepared by W. W. Drummey, Inc., 80 Boylston St., Boston, altering and constructing 1 story and basement. brick and stone addition, plain foundation. Endicott Ave., Beachmont Sect. $150,000.

Mass., Swansea—SCHOOL—Town, A. B. Almy, clk., Town Hall, plans 2 story and basement, brick and stone, plain foundation, $150,000. Engineer and architect not selected.

Mass., Walpole—HIGH SCHOOL—Town, Bd. Educ. takes bids about Aug. 9, 2 story and basement, irregular shaped brick and stone, addition, plain foundation, $275,000. McLaughlin & Burr, 88 Tremont St., Boston, archts. Noted July 14.

Mass., Wellesley—AUDITORIUM—Dana Hall School, H. T. Cooke, prin., 66 Grove St., having plans prepared by Henry & Richmond, 12 West St., Boston, 2 story, 60 x 100 ft., brick, plain foundation, here.

Mass., Williamstown—DORMITORY—Williams College, Inc., H. A. Garfield, pres., soon lets contract 3 story and basement, brick and steel, plain foundation, $150,000. Cram & Ferguson, 248 Boylston St., Boston, archts.

R. I., Edgewood (sta. Providence)—SCHOOL—Bd. Educ. having plans prepared by W. R. Walker & Sons, 49 Weybosset St., Providence, 2 story and basement, brick, plain foundation, Beachmont Ave. $150,000.

Conn., Meriden—NURSES HOME—Meriden Hospital, 181 Cook Ave., having preliminary plans prepared brick and steel nurses home. $150,000. L. Hamilton, 119 West Main St., archt.

Conn., New Haven—GYMNASIUM—Yale University, Athletic Assn., had plans prepared by Lockwood Greene & Co., 24 Federal St., Boston, Mass., 1 story, 160 x 300 ft., brick and steel, Maltby Ave. $200,000.

Conn., Newington—HOME—Home for Crippled Children, Cedar Hill, having plans prepared by Ebbets & Frid, 15 Lewis St., Bridgeport, additional units at Newington Crippled Childrens' Home. $300,000. Greenwood & Noerr, 847 Main St., Hartford, engr.

N. Y., Greece—SCHOOL—Town, A. L. Clifford, trustee, McCall Rd., Bernard, takes bids about Aug. 15, school addition, in Dist. 15, here. $150,000. C. C. Ade, Gas & Electric Bldg., Rochester, archt.

N. J., Midland Park (br. Ridgewood)—SCHOOL—Bd. Educ., Municipal Bldg., Godwin Ave., having plans prepared 3 story, brick and steel, plain foundation, Van Auken Tract, $250,000. Engineers and architects names withheld.

N. J., New Brunswick—DORMITORIES, etc.—New Jersey State College for Women having plans prepared by Ludlow & Peabody, 101 Park Ave., New York City, 2 dormitories, 1 infirmary, and 1 power plant. To exceed $150,000.

N. J., Oradell—HIGH SCHOOL—Bd. Educ., Linden Ave., having revised plans prepared by Coffin & Coffin, 522—5th Ave., New York City, 3 story, brick and steel, plain foundation. $375,000. Noted Apr. 21.

Pa., Phila.—SCHOOL—Archidocese of Philadelphia, D. Dougherty, cardinal, 18th and Sumner Sts., having plans prepared by Hoffman & Henon, Finance Bldg., 4 story and basement, 220 x 320 ft., rein.-con. and brick, plain foundation, 10th and Luzerne Sts. $1,500,000.

Md., Baltimore—PHYSICS LABORATORY—Johns Hopkins University, Charles St., plans 4 story, 57 x 150 ft., brick and stone, plain foundation, Charles St. $300,000. Wyatt & Nolting, Keyser Bldg., archts. H. F. Doellman, 516 N. Charles St., engr.

D. C., Wash.—COLLEGE—St. Albans Natl. Episcopal Cathedral, having plans prepared by Frohman, Robb & Little, 140 Boylston St., Boston, Mass., college. $250,000.

Ga., Atlanta—SCHOOLS—Bd. Educ., c/o R. R. Ritchie, 41 Walker St., soon takes bids Hoke Smith Junior High School (2nd unit) $200,000, Ormewood School $75,000, Stanton School $55,000, Stewart Ave. School addition $110,000, and Rockdale School $17,000, all brick; also Davis St. School, timber, $10,000. G. L. Preacher, Wynne Claughton Bldg., archt.

Ga., Rabun Gap—SCHOOLS—Rabun-Nacoochee School Dist., c/o R. O. Campbell, 238 Marietta St., Atlanta, having plans prepared by W. J. J. Chase, 140 Peachoce St., Atlanta, 5 unit 1 and 2 story brick and rein.-con., central building, 2 dormitories, chapel and dining hall.

La., Shreveport—HIGH SCHOOL—Caddo Parish Bd. Educ. c/o E. W. Jones, supt., 617 Edwards St., having preliminary plans prepared by E. F. Nield, 1206 City Bank Bldg., Junior High School, 2 story and basement, rein.-con., brick and steel, near State Fair Grounds. $350,000.

La., Winnfield—HIGH SCHOOL—Winnfield Parish School Bd., S. S. Sikes, supt., voted $160,000 bonds, brick and concrete high school. Noted Mar. 24.

Tenn., Nashville—CHURCH—Second Church of Christ (Scientist), 24th and West End Sts., having plans prepared by Marr & Holman, Stahlman Bldg., brick and stone church. $150,000.

O., Cincinnati—SCHOOL—Bd. Educ., Denton Bldg., having plans prepared by Fechheimer & Ihorst, Schmidt Bldg., 2 story and basment, brick and rein.-con., plain foundation, Eastern St. $315,000.

O., Cleveland Heights (Warrensville P. O.)—SCHOOL—Bd. Educ. c/o W. G. Nesbit, dir., 14387 Superior Rd., having plans prepared by J. H. Graham & Co., 1612 Euclid Ave., Cleveland, 2 story and basement, brick, steel and concrete, Canterbury Rd. $300,000.

Ind., Knightstown—SCHOOL—Orphans Home having plans prepared by McGuire & Shook, 941 North Meridian St., Indianapolis, 2 story and basement, rein.-con. and brick school. $150,000.

Ind., Lafayette—DORMITORY—Purdue University, R. B. Stewart, controller, having plans prepared by W. Scholer, Painters Bldg., Franklin Levering Gary Memorial Hall, rein.-con., brick and steel. $200,000.

Ill., Rock Island—SCHOOL—Bd. Educ., J. F. Whittier, pres., takes bids in September or October, 2 story and basement, 110 x 160 ft., rein.-con. and brick, 9th St. and 42nd Ave. $160,000. Cervin, Horn & Stuhr, Safety Bldg., archts. Noted July 14.

Ill., Rock Island—HIGH SCHOOL—Bd. Educ., E. F. Burch, clk., purchased site and having plans prepared by Cervin, Horn & Stuhr, Safety Bldg., Senior High School, 3 story, rein.-con., brick and stone, also athletic field, between 12th and 17th Sts., 23rd and 25th Aves. $1,000,000. Noted July 14.

Wis., Green Bay—CHURCH—Green Bay Grace Church, M. M. Walter, pastor, 624 Stuart St., plans rein.-con. and brick church and chapel, plain foundation, here. $150,000. Engineer and architect not selected.

Wis., Madison—CLUB HOUSE and COMMUNITY CENTER—University of Wisconsin having sketches made by Flad & Moulton, 110 East Washington Ave., clubhouse and community center. $175,000.

Wis., Racine—HIGH SCHOOL—A. H. Schafer, secy. Bd. Educ., having revised plans prepared by J. M. Matson, 528-38 Baker Blk., William Horlick High School, 4 story and basement, rein.-con., steel and stone, plain foundation, Southside. $500,000. Former bids rejected. Noted Dec. 30.

Minn., Mankato—SCHOOLS—St. Peters & St. Pauls Church having plans prepared by O'Meara & Hills, 1611 Pioneer Bldg., St. Paul, two 2 story and basement, rein.-con., and brick schools. $100,000 each.

Kan., Lindsborg—MUSIC HALL and CONSERVATORY—Bethany College, soon takes bids, 2 story and basement, 118 x 188 ft. rein.-con., brick and stone music hall and conservatory. $200,000. H. C. Eckland & Co., 705 Finance Bldg., Kansas City, Mo., archts. Noted Jan. 21, 1926.

Neb., Nebraska City—HIGH SCHOOL—Voted $175,000 bonds, constructing high school for Bd. Educ., F. Heller, secy. Noted June 2.

Mo., Clayton—CONVENT—Carmelite Convent, 18th and Victor Sts., St. Louis, soon takes bids 2 story and basement, 150 x 200 ft., rein.-con., brick, terra cotta and cut stone, Clayton and Price Rds. $240,000. O'Meara & Hills, Arcade Bldg., St. Louis, archts.

Mo., Jefferson City—COLLEGE—Lincoln University, T. C. Tull, secy., 701 Chestnut St., plans brick building. $150,000. Engineer and architect not selected.

Tex., Brownsville—HIGH SCHOOL—Bd. Educ. takes bids after Aug. 5, 2 story, rein.-con. and brick, high school. $350,000. A. B. & R. M. Ayres, 626 Bedell Bldg., and Phelps & DeWees, 718 Gunter Bldg., San Antonio, archts. Noted June 16.

Tex., Brownsville—HIGH SCHOOL—Bd. Educ. had plans prepared by Phelps & DeWees, 718 Gunter Bldg., San Antonio, and soon takes bids Junior High School, 2 story and basement, rein.-con., brick, and stone, $325,000. Noted June 16.

Tex., Dallas—CHURCH—Highland Park Presbyterian Congregation, W. A. Alexander, pastor, 3805 Mockingbird Lane, having preliminary plans prepared by M. Lemmon, 407 Const.-Ind. Bldg., rein.-con., brick and stone, Highland Park, Union Blvd. and Turtle Creek. $250,000.

Tex., Dayton—HIGH SCHOOL—J. Finger, archt., 422 Keystone Bldg., Houston, prepared plans and soon takes bids 2 story, brick, stone and rein.-con. high school, for Bd. Educ. $150,000.

Tex., Goose Creek—HIGH SCHOOL—H. D. Payne, archt., 1600 Washington Ave., Houston, preparing plans and soon takes bids Senior High School, here, for Goose Creek Ind. School Dist. $150,000.

Tex., Harrisburg—SCHOOL—Harrisburg Pub. Schools having plans prepared by L. A. Glover, Binz Bldg., Houston, 2 story school, Bway. $260,000.

Tex., Lubbock—ENGINEERING—Texas Technological College, c/o E. W. Provence, secy., having plans prepared by W. C. Hendrick, 1005 1st Nat. Bank Bldg., Fort Worth, rein.-con., brick, steel and stone engineering building. $240,000.

Tex., San Angelo—CHURCH and SUNDAY SCHOOL—First Baptist Congregation, c/o E. Ridgeway, pastor, having preliminary plans prepared 3 story and part basement church and sunday school. $150,000. Engineer and architect not selected.

Tex., San Angelo—COLLEGE—Bd. Educ., takes bids after Aug. 5, Junior College, 2 story and basement, rein.-con and brick, plain foundation, $250,000. Phelps & DeWees, Gunter Bldg., San Antonio, archts. Noted June 30.

Tex., San Antonio—EDUCATIONAL—Laurel Heights Methodist Congregation, W. H. Chambers, chn. building com., soon takes bids 3 story and basement, rein.-con., brick, stone and tile, Woodlawn Ave. and Belknap Pl. $200,000. Adams & Adams, Builders Exch. Bldg., archts. Noted Apr. 14.

Tex., San Antonio—SCHOOL and AUDITORIUM—San Fernando Cathedral, c/o C. Torrente pastor, having plans prepared by L. M. J. Dielmann, 305 East Commerce St., 3 story part basement, rein.-con., brick and steel, plain foundation. $150,000.

Okla., Tulsa—SCHOOL—Bd. Educ. having plans prepared by L. I. Shumway, 712 Alexander Bldg., rein.-con., brick, steel and stone school. $150,000.

Wash., Vancouver—SCHOOLS—Voted $225,000 bonds, Junior High School, and improving other schools, for Bd. Educ.

Buildings—Educational, Religious (Cont.)

Calif., **Glendale** — CHURCH — Central Christian Church having preliminary plans prepared by R. H. Orr, 1300 Corporation Bldg., Los Angeles, 4 story and basement, 100 x 150 ft., brick, steel and stone, 305 East Colorado St. $150,000.

Calif., San Francisco—CHURCH—Roman Catholic Archbishop, 1100 Franklin St., having preliminary plans prepared by Shea & Shea 454 Montgomery St., 120 x 245 ft., rein.-con., Judah St. and Funston Ave. $250,000.

B. C., Vancouver—TECHNICAL SCHOOL—Bd. School Trustees, Hamilton and Dunsmuir Sts., having plans prepared by F. A. A. Barns, c/o owner, concrete, brick and tile school. $500,000 bonds voted for same.

B. C., Vancouver—SCHOOLS—Bd. School Trustees. Hamilton and Dunsmuir Sts., having plans prepared by F. A. A. Barrs, Hamilton and Dunsmuir Sts., and takes bids about Aug. 11, 3 story, 12 room, rein.-con., brick and tile additions to Laura Second and Beaconsfield Schools. $270,000. P. P. Brown, 407 London Bldg., engr.

Bids Desired

Mass., Long Island (Ind. sta. Boston)—NURSES HOME—Aug. 17, by W. S. Kinney, comr. City Hall, Boston, 3 story and basement, brick and stone, plain foundation, $150,000. J. H. Ritchie & Associates, 250 Stuart St., Boston, archts. Noted Feb. 17.

Mass., Roxbury (br. Boston)—CONVENT—Mission Church, J. P. O'Leary, taking bids altering and constructing 3 story and basement, brick and stone, addition, plain foundation, Smith St. $150,000. F. T. Untersee, 585 Boylston St., Boston, archt.

R. I., Cranston — SCHOOL — City, Bd. Educ., taking bids, 2 story and basement, brick, plain foundation, Beachmont Ave., Edgewood, here. $150,000. W. R. Walker & Sons, 49 Weybosset St., Providence, archts.

Conn., Bridgeport—CHURCH—Aug. 22, by First Methodist Church, C. C. Marshall, pastor, brick and stone, Harrison and Golden Hill Sts. $500,000. E. G. Southey, 983 Broad St., archt., Allen & Collens, 75 Newbury St., Boston, Mass., associated archts. Noted June 2.

Pa., Phila.—SCHOOL—Aug. 9, by Bd. Educ. and J. D. Cassell, supt., buildings, two 3 story and basement 63 x 106 ft. rein.-con. and brick additions to Howard Furneso School, plain foundation, 32nd and Mifflin Sts. I. T. Catharine, 19th and Chestnut Sts., archt.

Pa., Phila.—SCHOOL—Aug. 9, by Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., Trade School, 5 story and basement, 156 x 164 ft., rein.-con. and brick, plain foundation, Frankford and Clementine Sts. I. T. Catharine, 19th and Chestnut Sts., archt. $1,000,000.

Ga., Rome—SCHOOL—Aug. 11, by Berry Schools, 2 story and basement, brick, stone and rein.-con. school. $500,000. Coolidge & Carlson, State St., Boston, Mass., archts.

O., Cleveland Heights (Warrensville P. O.)—CHURCH—W. G. Caldwell, archt., Engineers Bank Bldg., Cleveland, taking bids 1 story, 54 x 100 ft., brick, steel and stone, Taylor Rd., for Trinity Congregational Church, J. F. Heffner, pastor, 1565 East 117th St., Cleveland. $200,000.

Ind., Elkhart—HIGH SCHOOL—School Comrs., H. Compton, pres., taking bids 2 story and basement, 83 x 123 ft., rein.-con., brick and steel high school. $150,000. H. Miller, 531 Monger St., archt.

Mich., Ann Arbor—ATHLETIC—Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., Detroit, taking bids 1 story and basement, 110 x 414 ft., rein.-con. and steel, plain foundation, University campus, here, for University of Michigan.

Mich., Flint—HIGH SCHOOL—Aug. 9, by J. W. McCue, secy. Bd. Educ., 909 Flint P. Smith Bldg., Junior High School, 3 story, brick, steel and rein.-con., Chevrolet Ave., $400,000. Malcolmson & Higginbotham, 904 Flint P. Smith Bldg., archts. Noted July 28.

Mich., Pontiac—SCHOOL—Aug. 5, by McGrath, Dohmen & Page, archts., 2231 Park Ave., Detroit, 2 story and part basement, rein.-con., brick and steel, plain foundation, Southfield Rd., for Lathrop Sub-division School Bd., Oakland Co. $150,000.

Ark., Lonoke—COURTHOUSE and JAIL—Aug. 1, by Court House Comn., Lonoke Co., 3 story, 62 x 215 ft. rein.-con., brick and stone, here. E. M. High, co. judge. H. R. Burk, Room 307, Southern Trust Bldg., Little Rock, archt. Noted Jan. 6, 1926.

Tex., Harrisburg—HIGH SCHOOL—I. A. Glover, archt., 623 Binz Bldg., Houston, taking bids Junior High School, 2 story, 12 room, here, for Bd. Educ. J. O. Webb, supt. $250,000. Noted July 14.

Calif., Glendale—CHURCH—See "Contracts Awarded."

Calif., Huntington Park—HIGH SCHOOL—Trustees Huntington Park Union High School Dist. taking bids part 1 and 2 story, 160 x 160 ft. gymnasium, 60 x 75 ft. swimming pool, etc., all brick and concrete. G. M. Lindsey & E. P. Eiden, 1008 West 6th St., Los Angeles, associated archts.

Contracts Awarded

N. H., Concord—NURSES HOME—State Building Comn., C. H. Dolloff, supt. Hospitals, 3½ story and basement, 40 x 115 ft., and 35 x 60 ft., rein.-con. and stone plain foundation, at New Hampshire State Hospital, to Cummings Constr. Co., 14 Prospect St., Ware. Archts. est. $150,000. Noted June 23.

N. H., Manchester—DORMITORY—New Hampshire Industrial School, 3 story and basement, brick, plain foundation, North River Rd., to Davison & Swanberg, 37 Amherst St. archts. est. $150,000. Noted July 6.

N. H., Nashua—PARISH HOUSE—Church of Good Shepard, W. B. Niles, pastor, 3 story and basement, brick and stone, plain foundation, to S. Belanger & Son, Inc., 308 Main St. Archts. est. $150,000. Noted July 21.

Mass., Amherst—LIBRARY—Town, c/o Putnam & Cox, archts., 114 State St., Boston, 3 story and basement, brick and stone, plain foundation, to Casper Ranger Const. Co., 20 Bond St., Holyoke. Archts. est. $250,000. Noted June 30.

Mass., Cambridge (br. Boston)—DORMITORIES — Massachusetts Institute of Technology, S. W. Stratton, pres., 222 Memorial Dr., two 5 story and basement, rein.-con., brick and limestone, plain foundations Technology Grounds, to Chase & Gilbert, 250 Stuart St., Boston. Archts. est. $600,000. Noted June 30.

Mass., Cambridge (Boston P. O.)—SCHOOL—St. Peter's Parish, P. H. Callanan, pastor, 3 story and basement, 80 x 180 ft., brick, steel and stone, Concord Ave., to E. T. Madden, 17 Allen Rd., Wellesley. Archts est. $300,000.

Mass., Cambridge (Boston P.O.)—SCHOOL—W. B. Colleary, archt., 80 Boylston St., Boston, 3 story and basement, 80 x 180 ft brick and steel, plain foundation, Buckingham St. and Manassas Ave., here, to E. T. Madden, 17 Allen Rd., Waltham, for St. Peters Roman Catholic Parish, 31 Buckingham St. Archts. est. $200,000. Noted June 9.

Mass Hopedale — HIGH SCHOOL — Town, School Com., 2 story and basement, brick and stone, plain foundation, Adess St., to E. H. Porter Co., 15 Wallis St., Peabody. Archts. est. $150,000 or more. Noted June 2.

Mass., Malden (Boston P.O.)—SYNAGOGUE—Congregation Beth Israel of Malden, c/o Eisenberg & Feer, archts., 46 Cornhill, Boston, altering and constructing 1 story and basement, brick and rein.-con. addition, plain foundation, Faulker St. and Eastern Ave., to H. Lilly, 49 Boylston St., Malden. Archts. est. $150,000. Noted June 30.

R. I., Howard — DORMITORY — Dept. Pub. Welfare, State House, Providence, 3 story and basement, brick, plain foundation, at State Hospital for Mental Diseases, here, to A. F. Smiley Constr. Co., Oak Hall Bldg., Pawtucket. $150,000 or more. Noted July 14.

Conn., Waterbury—SCHOOL—St. Margaret's School, 3 story and basement, 70 x 180 ft., brick, steel and stone, Bradleyville Rd., to Tracy Bros. Co., 52 Benedict St. Archts. est. $300,000. Noted July 7.

N. Y., Brooklyn—NURSES HOME—Dept. Pub. Welfare, Municipal Bldg., New York City. general contract nurses home at Coney Island Hospital, to Lane Ogle Co., 9 Park Pl., New York City, $384,800. Noted Sept. 9.

N. Y., New York—SCHOOL—Lincoln School of Teachers College, 425 West 123rd St., brick and steel school adjoining 425 West 123rd St., to Hegeman-Harris Co., Inc., 360 Madison Ave., archts. est. $500,000. Noted May 26.

N. Y., West New Brighton (sta. Staten Island)—SCHOOL—School of Blessed Sacrament, 2 story and basement, brick and steel, plain foundation, to E. E. Paul, 104 East 41st St., New York City. Archts. est. $175,000.

N. J., Hackensack—CHURCH—R. Hume, archt., 247 Park Ave., New York City, general contract 1 story, 75 x 100 ft., brick and steel, plain foundation, here, to E. M. Waldron, Inc., 27 Central Ave., Newark, for Church of Holy Family, Maple Ave. $150,000. Noted June 23.

N. J., Roselle (Ind. br. Elizabeth)—SCHOOL—Bd. Educ., Boro Hall, general contract 2 story and basement, 112 x 139 ft., brick and steel, plain foundation, 5th and Washington Aves., to W. Jensen, 643 Linden Ave., Woodbridge, $119,824. Noted June 23.

Pa. Emlenton — HIGH SCHOOL—Bd. Educ., and Crosby & Crosby, archts., Oil City, general contract 2 story and basement, irregular shaped, brick and steel, to G. Schenck & Son, Butler. Archts. est. $200,000. Noted June 30.

Pa., Mt. Airy—GYMNASIUM—Mellor, Meigs & Howe, archts., 205 South Juniper St., Phila., 2 story, gallery and basement, 66 x 106 ft., rein.-con. and brick plain foundation, to H. H. Burrell & Son, 206 South Quince St., Phila., for Pennsylvania Institute for Deaf, here. Noted July 21.

Pa., New Castle—HIGH SCHOOL—Bd. Educ., c/o A. L. Thayer, archt., Junior High School, 3 story and basement, 157 x 305 ft., brick, steel and concrete, to J. Clyde Gilfillan Lumber Co., New Castle, $418,333. Noted July 21.

Pa., Pittsburgh—HIGH SCHOOL—Bd. Educ., Fulton Bldg., general contract, 1 and 2 story and basement, irregular shaped, stone and steel addition, Brighton Rd., to J. G. Fullman Co., East End Savings & Trust Bldg., $368,000; heating, to Ryan Heating Co., 53 Tunnel St., $66,980; wiring, to G. L. Craig Elec. Co., Ferguson Bldg., $29,885; and plumbing, to W. N. Sauer Plumbing Co., $36,000. Grand total $500,865. Noted Feb. 24.

Pa., Wilkinsburg—HIGH SCHOOL—School Dist. and T. Scott, archt., 230 5th Ave., Pittsburgh, general contract, 2 story and basement, 100 x 180 ft., brick and steel addition, Wallace Ave., to J. G. Fullman Co., East End Savings & Trust Bldg., Pittsburgh, $419,000; heating, to F. E. Giesler Co., Pittsburgh, $67,700 and electrical work to Axthelm Elec. Co., 209 4th Ave., Pittsburgh, $27,512. Grand total $514,212. Noted Feb. 3.

W. Va., Morgantown—MEN'S FIELD HOUSE—West Virginia University, 1 story and gallery, 120 x 382 ft., rein.-con., brick and steel, concrete pile foundation, to Forman & Putman, Marietta, O.

O., Dayton—HIGH SCHOOL—Bd. Educ., Junior High School, 2 story and basement, brick and rein.-con. plain foundation, to H. R. Blagg Co., 1229 East 3rd St., $446,870. Noted June 23.

Ind., Attica—HIGH SCHOOL—School Comrs. general contract rein.-con., brick and steel high school, incl. gymnasium and auditorium, etc., to C. Schendel, Danville, Ill. $170,000. Noted Nov. 18, 1926.

Ind., Oakland City—HIGH SCHOOL—School Trustees, J. W. Cockrum, secy., general contract 2 story and basement, 175 x 200 ft. high school, to E. G. Hammerlein, Jasper, $165,000. Noted Apr. 7.

Mich., Detroit—SCHOOLS—Bd. Educ., 1354 Bway., masonry contract for two 2 story and basement, rein.-con. brick and steel, plain foundations, one 441,094 cu.ft. floor space, Atkinson site, and other 441,094 cu.ft. floor space, Steelwegen site, to W. H. Mueller, 2111 Woodward Ave., $109,250 and $110,930 respectively; heating, to Card & Dawson, 3922 Garland Ave., $37,978 and $37,756 respectively. Grand total $298,914. Noted June 16.

Wis., Green Bay—HIGH SCHOOL—Bd. Educ., I. H. McIntire, supt., 3 story and basement, 240 x 280 ft., rein.-con., brick and steel, plain foundation, here, to M. Madsen, 702 Natl. Bldg., Minneapolis, Minn. Archts. est. $700,000.

Wis., Kenosha—SCHOOL—Bd. Educ., Roosevelt Road School, 2 story and part basement, 118 x 190 ft., rein.-con., brick and Bedford stone, plain foundation, here, to Pehrson Bros., 555 Gateway Bank Bldg., Minneapolis, Minn. $217,450.

Wis., Kenosha—SCHOOL, GYMNASIUM and AUDITORIUM—Bd. Educ., E. F. Powers, secy., general contract 2 story and basement, brick and stone, Salem Ave., to Pehrson Bros., 555 Temple Court Bldg., Minneapolis, Minn., $206,800. Noted Dec. 16.

Wis., La Crosse—HIGH SCHOOL—Parkinson & Dockendorff, archts., Linker Bldg., 2 story and basement, 80 x 170 ft., rein.-con., brick and Bedford stone, to Nelson & Son, La Crosse for Diocese of La Crosse. $123,600. Noted May 19.

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Buildings—Educational, Religious (Cont.)

Wis., Milwaukee—SCHOOL—Bd. Industrial Educ., E. O. Michl, secy., masonry contract for Central Continuation School (unit 3), 6 story and basement, 166 x 220 ft., brick and steel, 6th and Highland Sts., to W. T. Bucholz, Milwaukee, $203,000; carpentry, to Bentley Bros., Inc., 808 South Pierce St., $113,000; and electrical work, to Magaw Electric Co., 422 Jefferson St., $41,000. Grand total $357,000. Noted June 16.

Wis., Milwaukee—SCHOOL—Bd. Educ., excavation, concrete and masonry contract for Fernwood School, 4 story and basement, 125 x 131 ft., rein.-con., brick and steel, plain foundation, Penna Ave. and Heath Pl., to Paul Riesens & Sons, 1018 Humboldt Ave., $151,212; carpentry, to Loatsch Bros., Milwaukee, $47,500; heating and ventilating, to Wenzel & Henoch Constr. Co., 49th and Sta*e Sts., $39,490. Grand total $238,202. Noted June 16.

Wis., Racine—SCHOOL—Bd. Educ., A. H. Shafer, secy., general contract 3 story and basement, rein.-con. and brick school, here, to W. Christensen Constr. Co., Racine, $581,132. Noted June 9.

Minn., Minneapolis — PARISH HOUSE and SACRISTY—Basilica of St. Mary 1623 Laurel Ave., general contract 3 story and basement parish house, and 1 story and basement sacristy, both rein.-con. and brick, 17th St. N. between Hennepin and Laurel Aves to McGough Bros., 1945 Jefferson St., St. Paul. Archts. total est. $150,000. Noted Jan. 27.

Mo., St. Louis — DENTAL SCHOOL — Washington University, Skinker and Forsythe Blvds., 4 story, rein.-con., brick and terra cotta, Scott Ave. near Euclid Ave., to Dickie Constr. Co., Syndicate Trust Bldg., Archts. est. $250,000. Noted July 21.

Mo., St. Louis—DORMITORY—Washington University, Forsythe and Skinker Blvd., general contract 3 story and basement, 53 x 190 ft. dormitory containing 64 x 125 ft. gymnasium, red granite, rein.-con. and Bedford stone, to Woermann Constr. Co., Syndicate Trust Bldg. Archts. est. $250,000. Noted June 30.

Tex., College Station—DORMITORIES—A. & M. College, c/o F. M. Law, pres. bd. directors, Austin, 3 story, 34 x 39 ft., rein.-con. brick and tile, plain foundation, here to San Antonio Constr. Co., 906 Builders Exch. Bldg., San Antonio approximately $275,000. Noted June 9.

Okla., Ardmore — CHURCH—Broadway Baptist Congregation, general contract 3 story and basement, rein.-con., brick and stone, to R. J. Ridpath, Ardmore, approximately $150,000. Noted May 5.

Calif., Glendale—CHURCH—First Methodist Episcopal Church, will build 1 story with 130 ft. tower, approximately 150 x 200 ft., rein.-con., 2,500 seating capacity, Kenwood St. and Wilson Ave., by day labor. $400,000. Noted June 10.

Calif., Pomona — ACADEMY — P. K. Schabarm, archt., 409 Equitable Bldg., Los Angeles, 2 story and basement, 130 x 275 ft., brick, Holt Ave., here, to Campbell Constr. Co., Ontario, for Sisters of Academy of Holy Names. $164,700. Noted July 7.

Calif., Redlands—HIGH SCHOOL—Bd. Trustees Redlands School Dist., new Junior High School, here, to B. F. Farley, San Fernando Blvd., Burbank, $69,789. Noted Feb. 24.

Ont., Cochrane—HIGH SCHOOL—High School Bd., general contract, 3 story and basement, brick, rein.-con. and steel, plain foundation, to L. Cain, 16 Fairview Ave., Toronto. Archts. est. $160,000.

Ont., Fergus — HIGH SCHOOL — Bd. Educ., 2 story, 100 x 160 ft. brick, incl. laboratories, St. Andrew St., to G. H. Thomas & Son, Main St., Galt, $82,025. Steam heating.

Ont., Timmins—SCHOOL—High School Bd., general contract, 3 story and basement, 12 room, rein.-con., brick and steel addition, plain foundation, to Hill, Clarke & Francis, New Liskeard; steel, to Hamilton Bridge Wks., Bay St., N., Hamilton. Archts. est. $160,000. Noted May 25.

Ont., Toronto—SCHOOL—Bd. Educ., 155 College St., Western Technical School and High School of Commerce, here, concrete, brick, steel and cut stone masonry, to F. Holmes & Son, 331 Bay St., $390,820; carpentry, to F. Wilson, 22 Bank St., $86,980; structural steel, to McGregor & McIntyre, 1169 Shaw St., $100,240; steel joists, to Sarnia Bridge Co., Federal Bldg., $51,000; plastering, E. A. Murphy 209 De Grassi Ave., $56,000; plumbing, to H. Griffiths & Co., 1128 College St., $53,107; heating, to W. F. Clifton & Co., 313 Brock Ave., $72,800; and wiring, to E. L. Roxborough, 24 Bloor St. W., $53,733; ventilating, to Canadian Rogers Sheet Metal & Roofing Co., 918 Palmerston Ave., $43,583. Grand total $908,263. Noted

Que., Montreal—SCHOOL—Roman Catholic School Comn., St. Catherine St., for St. Vincent Ferrier School, Drolet St., to Chauvin & Girard, 134 Darling St., $179,850. Noted Apr. 14.

Que., St. Titeville—CHURCH—Roman Catholic Congregation, 50 x 90 ft. brick, stone and steel church, to A. & J. Girout, St. Marc des Carrieres, $150,000.

Federal Government Work

Proposed Work

N. Y., New York—Doors—Spec. 5389—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans vertical rolling steel doors at Navy Yard, here.

Cuba, Guantanamo Bay—Gasoline Tank—Spec. 5384—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans 90,000 gal. steel gasoline tank at U. S. Naval Station, here.

Bids Desired

Mass., Woods Hole—Dredging—Aug. 17, by U. S. Engineers Office, Providence, R. I. dredging in Little Harbor, here; adv. E. N.-R. Aug. 4.

N. Y., Beacon—Road—Aug. 16, by U. S. Veterans' Bureau, Arlington Bldg., Wash., D. C., concrete service road to Semi-Ambulent Quarters at U. S. Veterans' Hospital 98, at Castle Point, near here; adv. E. N.-R. Aug. 4.

N. J. Millville—Post Office—Aug. 31, by Treas. Dept., at office Supervising Archt., Wash., D. C., constructing U. S. Post Office, here, adv. E.N.-R. Aug. 4.

Va., Yorktown—Roads—Spec. 5324—Aug. 24, by Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing sand-clay roads, log bulkhead and timber trestle bridge at Navy Mine Depot, here; adv. E. N.-R. Aug. 4.

Tenn., Nashville—Gates—Sept. 6, by U. S. Engineer Office, 4 steel lock gates; adv. E. N.-R. Aug. 4.

Ky., Louisville—Gates—Sept. 1, by U. S. Engineer, Office, P. O. Box 72, fabricating and erecting gates for Locks 51 and 53, Ohio River, here; adv. E. N.-R. Aug. 4.

Mich., Detroit — Mezzanine Floor — Aug. 24, by Treas. Dept., at office Supervising Archt., Wash., D. C., mezzanine floor at U. S. Post Office, here; adv. E. N.-R. Aug. 4.

Ill., Great Lakes (br. Waukegan)—Chimney—Spec. 5413—Aug. 24, by Bureau Yards & Docks, Navy Dept., Wash., D. C., chimney at Naval Training Station, here. Noted July 21.

Ill., Great Lakes—Heating Plant—Spec. 5404—Aug. 24, by Bureau Yards & Docks, Navy Dept., Wash., D. C., heating plant at U. S. Naval Training Station, here; adv. Aug. 4. Noted July 28.

Wyoming—Road—Aug. 8, by J. W. Johnson, dist. engr. Bureau Pub. Rds., Denver, Colo. grading, etc. 7.6 mi. Encampment Sect. of Encampment Slatic, Natl. Forest Rd. Project, Carbon Co.

T. H., Oahuth—Hospital, etc.—Aug. 15, by W. McK. Scoot, Constr. Div. Fort Shafter, isolation hospital, storehouse, office ward, and one prison and insane ward, at Schofield Barracks, here.

Contracts Awarded

Rhode Island—Dredging—U. S. Engineers Office, Providence, dredging and rock removal in Pawtucket River, to P. Sanford Ross, Inc., 277 Washington St., Jersey City, N. J., $51,323. Noted June 2.

Conn., New Haven—Water Supply—Treas. Dept., at office Supervising Archt., Wash., D. C., water supply at U. S. Post Office, here, to R. J. Carlona, 535 Columbus Ave., $14,708. Noted June 9.

New Jersey—Dredging—U. S. Engineer Office, Wilmington, Del., dredging in Woodbury and Mantua Creeks, here, to Delaware Dredging Co., 139 South 3rd St., Phila., Pa., $16,090. Noted June 9.

Va., Alexandria—Repairing Pier—Spec. 5368—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairing and rebuilding pier at Naval Torpedo Assembly Plant, here, to McLean Constr. Co., 1415 Fidelity Bldg., Baltimore, Md., $14,887. Noted July 14.

N. C., Oteen—Water Tank—U. S. Veterans' Bureau, Arlington Bldg., Wash., D. C., steel tank at U. S. Veterans' Hospital, here, to Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., $7,580. Noted June 23.

Miss., Vicksburg—Levee Work—Third Mississippi River Dist., P. O. Box 404, 6,905,000 cu.yd. levee work, Items 1 and 3, to Owen & Gaddis, Jackson, $238,969; Item 5, to T. W. Roach, North Memphis Savings Bank Bldg., Memphis, Tenn., $22,750; Item 7, to Denison, Brown & Wooton, Vicksburg, $58,320; Item 11, to Sternberg Dredging Co., Arcade Bldg., St. Louis, Mo., $165,750; and Item 12, to R. T. Clark & Co., Inc., J. W. Noble, and R. P. Harris, Natchez, $23,820. Grand total $509,609. Noted June 30.

Tenn., Memphis—Levee Work—U. S. Engineer Office, levee work in Lower St

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Federal Government Work (Continued)

Francis Levee Dist., to T. W. Roach, North Memphis Savings Bank Bldg., $26,082.

O., Chillicothe—Storehouse—U. S. Veterans' Bureau, Arlington Bldg., Wash., D. C., constructing storehouse, at U. S. Veterans' Bureau, here, to Chappelear-Gardner Co., Portsmouth, $21,115. Noted June 23.

Missouri and Minnesota—Towboat Inland Waterways Corp., Wash., D. C., steel towboat for use on Upper Missisippi River here, to Dubuque Boat & Boiler Co., Dubuque, Ia., $168,375.

Missouri—Earthwork—District Engineer Northern Mississippi River Comn., Custom House, St. Louis, levee work in Levee Dist. 2, Perry Co., to McWilliams Dredging Co., 332 South Michigan Ave., Chicago, Ill., $60,840. Noted June 23.

Mo., Miami—Dikes—U. S. Engineer Office, 707 Postal Telegraph Bldg., Kansas City, dikes in Miami Bend, Missouri River, here, to Woods Bros. Constr. Co., 132 South 13th St., Lincoln, Neb., $77,127. Noted June 23.

Calif., Oakland—Dredging—U. S. Engineer Office, Custom House, San Francisco, dredging in Oakland Harbor, here, to Amer. Dredging Co., 255 California St., San Francisco, Area B, $106,948. Noted June 9.

Unclassified

Proposed Work

Pier—Boston, Mass. — Commonwealth Co. of Massachusetts, plans timber pier to connect existing wharf with shore in Boston Wharf at Deer Island. $25,000. Metropolitan Dist. Com., 1 Ashburton Pl., engr.

Athletic Field—Clinton, Mass.—Town, J. C. McMahon, chn. building com. plans improving Fuller Athletic Field, incl. new concrete grandstand, relocating baseball diamond, etc. $25,000. Engineer not selected.

Transmission Line, etc. — Virginia and North Carolina—Virginia Electric & Power Co., 700 East Franklin St., Richmond, Va., J. F. McLaughlin, secy., plans improving system, incl. underground transmission line and transformer substation, etc. $6.652,339.

Lighting System — Albany, Ga. — See "Sewers."

Mains — Austin, Minn. — Making plans 4,000 ft. mains for central heating plant. Address City Engineer.

Grain Elevator — Minneapolis, Minn. — City plans 1,000,000 bu. rein.-con. grain elevators, foot Washington Bridge, at Mississippi River Terminal. $150,000. N. W. Elsberg, city engr.

Undergrade Crossing — St. Louis, Mo. — City and Missouri Pacific R.R. Co., E. A. Hadley, ch. engr., Ry. Exch. Bldg., soon take bids rein.-con. grade crossing under railroad tracks at Tholozan Ave. $32,000. L. R. Bowen, 301 City Hall, engr.

Coaling Station—Gurdon, Ark.—Missouri Pacific R.R. Co., E. A. Hadley, ch. engr., Railway Exch., St. Louis, Mo., making preliminary plans 300 ton rein.-con. mechanically operated coaling station, with 10 ton dry sand storage overhead, etc., here. $58,000.

Gas Pipe Line, etc.—Texas—Lone Star Gas Co., 1915 Wood St., Dallas, making plans 33 mi. natural gas pipe line from Waco to Temple, $600,000, also natural gas plant, at Temple, $500,000. Private plans.

Gas Pipe Line—Texas—Upham Gas Co., Mt. Vernon, O., plans 50 mi. 8- to 10-in. pipe line between Iowa Park and Olney, here. W. Watkins, Quanah, engr.

Pipe Line—Texas—Humble Pipe Line Co., Humble Oil Bldg., Houston and Amarillo, making plans 140 mi. 10 in. oil pipe from Burnett Station south of Borger, etc. $3,000,000. Private plans.

Transmission Line—Texas—Texas Electric Serv. Co., c/o J. W. Carpenter, Wichita Falls, making plans 150 mi. high tension electric power transmission lines in West Texas. $200,000. Private plans.

Swimming Pool—La Feria, Tex.—See "Buildings—Commercial."

Natural Gas System—Mercedes, Tex.—Rio Grande Valley Gas Co., plans natural gas system. $40,000. Private plans.

Land Development—McAllen, Tex.—Montezuma Country Club, Estates, c/o C. R. Carnes, mgr., takes bids in September, developing 500 acre plot, incl. swimming pool $35,000, dredging lake $40,000, and street paving $60,000. B. M. Chalk, c/o Chalk-Eakeldson Co., McAllen, engr.

Wharf—Point Isabel, Tex.—Page L'Hote, Ltd., Carondelet Bldg., New Orleans, La., making plans 1,600 ft. rein.-con. wharf, 60 ft., here. $125,000. Private plans.

Natural Gas System—Rotan, Tex.—C. O. Moore, Throckmorton plans natural gas system. $35,000 or more. Private plans.

Swimming Pool — Red Bluff, Calif. — Plans swimming pool. $25,000 or more.

Swimming Pool, etc.—Taft, Calif.—H. H. Pursel, State Bank Bldg., purchased site and plans 50 x 100 ft. tile swimming pool, with filtering and heating system. $150,000.

Grain Elevator — Port Arthur, Ont. — Union Terminals Ltd., having plans prepared 500,000 bu. addition to grain elevator, concrete, rein.-con. and steel, $350,000. C. D. Howe & Co., Whalen Bldg., engrs.

Bids Desired

Transit Extension—Boston, Mass.—Aug. 17, by Transit Dept., 1 Beacon St., Sect. 2, Rapid Transit System Extension, Andrew Sq. to Fields Corner, Dorchester; Aug. 31, Sect. 3, $4,500,000. E. R. Springall, Transit Dept., engr.

Comfort Station, etc.—New Bedford, Mass.—City, Pub. Building Dept., City Hall, taking bids 1 story, concrete and timber comfort station and skaters' rest house, Buttonwood Park. $25,000. C. Hammond & Son, 179 North Water St., archts.

Escalators—Brooklyn, N. Y.—Aug. 5, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, 2 electrically operated reversible cleat step type passenger escalators, with equipment in connection between 14th St.-Eastern Line and Myrtle Ave. Elevated Line near Gates Ave., here.

Grain Handling Equipment — Brooklyn, N. Y.—Aug. 29, by T. F. Farrel, Comr. Canals & Waterways, Albany, pneumatic equipment for handling wet and dry grain at Gowanus Bay Grain Elevator, here. $32,000; adv. E. N.-R. Aug. 4.

Hoists and Machinery for Dredge—Syracuse, N. Y.—Aug. 11, by T. F. Farrell, comr. Canals & Waterways, Albany, constructing and delivering 2 motor driven hoists, $5,000; and Aug. 15, machinery for hydraulic dredge, $62,000; adv. E. N.-R. Aug. 4.

Transmission Line—Illinois—See "Contracts Awarded."

Electrical Equipment—Chicago, Ill.—Aug. 10, by City, Room 406, City Hall, constructing, delivering and installing entire electrical equipment for double-leaf trunnion bascule bridge over South Branch Chicago River at West Roosevelt Rd. R. W. Wolfe, comr. Pub. Wks.

Operators Houses, etc. — Chicago, Ill. — Aug. 10, by City, Room 406, City Hall, furnishing labor, tools, materials, etc. and constructing operators houses and enclosure walls for double-leaf trunnion bascule bridge over Chicago River at North La Salle St. R. W. Wolfe, comr. Pub. Wks.

Wharf—Houston, Tex.—Aug. 11, by Port Comn., open Wharf 14, and Wharf 15, with 1 story shed. $300,000. C. C. Crotty, Houston, engr.

Gas Drums—Anaheim, Calif.—See "Contracts Awarded."

Contracts Awarded

Airplane Hangars—Barnstable, Mass.—F. Dupont, steel and timber hangars, to Daniel Bros., Wianno. Engrs. est. $25,000.

Bulkhead—New Bedford, Mass.—City, Eng. Dept. bulkhead, timber piling, rip rap, Clarks Cove, to Merritt, Chapman & Scott Co., 292 Pequoit Ave., New London, Conn. Engrs. est. $25,000. Noted July 6.

Lighting System—Newport Beach, Calif.—Ornamental lighting system on Coast Blvd. between Avocado Ave. and Track 673, to Walker & Martin, 402 South Wilshire Blvd., Fullerton, $29,000.

Athletic Field—Newton (Ind. br. Boston), **Mass.**—City, E. O. Childs, mayor, athletic field, Walnut St. near high school, to P. Salucci, Waltham, $71,725. Noted July 21.

Turbine Room—East Walpole, Mass.—Bird & Sons, Inc., 1 story, concrete and steel turbine room extension, to J. Gascoigne & Co., 6 Beacon St., Boston. Noted July 7.

Lighting System—San Diego, Calif.—Common Council, ornamental lighting system on Bway., to Paulson Constr. Co., 621 Detweiler Bldg., Los Angeles, $34,475.

Boardwalk—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., boardwalk, etc. along ocean front from Beach 81st to Beach 109th Sts., to Muccinni & Decker, Inc., Queens Village, $437,836. Noted July 14.

Shed—New York, N. Y.—M. Cosgrove, comr. Docks, Pier "A," foot Battery Pl., shed on East 139th and 140th Sts. Dump, on Harlem River, Contr. 1852-C, to E. O. Roberts Co., Inc., 52 Vanderbilt Ave., $21,450. Noted July 7.

Cribbing Wall—Portsmouth, O.—C. C. Lynn, dir. Serv., 1,600 ft. concrete cribbing-wall along Gallia St., to R. C. Products Co., Engineers Bldg., Cleveland, $48,852.

Transmission Line — Illinois — Illinois Power & Light Corp., 231 South La Salle St., Chicago, will construct approximately 70 mi. 66,000 volt high power transmission line between Decatur and Champaign, with own forces. E. S. Height, c/o owner, engr.

Grade Separation—Wisconsin—State Hy. Comn., Madison, constructing grade separation on Project 349-F, Milwaukee Co., incl. 5,500 sq.yd. concrete paving, etc., to W. F. Hunt, 445 Milwaukee St., Milwaukee, $40,818.

Coaling Station—Kansas City, Mo.—St. Louis & San Francisco R.R. Co., F. G. Jonah, ch. engr., St. Louis, 400 ton, rein.-con. automatic coaling station, to Roberts & Schaefer, 400 North Michigan Ave., Chicago, Ill.

Gas Pipe Line—Texas—Prairie Oil & Gas Co., Amarillo, 250 mi. 12 in. main line and 40 mi. 6 and 8 in. gathering lines, to Natl. Supply Co., Union Bank Bldg., Pittsburgh, Pa., approximately $3,000,000.

Harbor Improvements—Owen Sound, Ont.—Dept. Pub. Wks., Ottawa, harbor improvements, here, to I. E. Woodrick, Owen Sound, $39,948.

Tunnel—Wichita Falls, Tex.—State Hospital for Insane, steam tunnel to connect with main building about 6 ft. deep, and 4 ft. wide, to Janes Contg. Co., Wichita Falls, $19,000. Noted May 19.

Gas Drums—Anaheim, Calif.—Southern Counties Gas Co., 810 South Flower St., Los Angeles, will build two gas drums, area tanks approximately 52 x 200 ft., with 1,000,000 cu.ft. gas to supply community from 12 to 14 hrs., at 112-114 North Topeka St., here, by day labor. $107,069.

Ornamental Lighting System—Huntington Park, Calif.—Ornamental trolley pole lighting system, etc. on Pacific Ave., to G. W. Kember, 3701 South Overland St., Los Angeles, $75,935. Noted May 5.

Docks—Port Arthur, Ont.—Dept. Pub. Wks., Ottawa, improving and repairing 2 timber and concrete docks, here, to Chambers McQuigge & McCaffrey, 36 Toronto St., Toronto, $184,900. Engrs. est. $185,000.

Grain Elevator, etc.—Victoria, B. C.—Panama Pacific Grain Terminals 1,000,000 bushel elevator and storage plant at Ogden Point Docks, to Smith Bros. & Wilson Ltd., 850 Hastings St. W., Vancouver $658 690.

Materials

Proposed Work

Cement—Merced, Calif.—P. J. Thornton, Co. Clk. and W. E. Bedesen, Shafer Bldg., Co. Surveyor, plans to purchase 6,500 bbls. portland cement.

Ties — Canada — Canadian Natl. R.R., Montreal, Que., in market approximately 9 million pine, hemlock, cedar, tamaval, beach, maple, birch track ties, ¼ of this amount to be treated by creosoting process, 6,000,000. L. Lavoie, Montreal, purch. agent.

Bids Desired

Brick—New York, N. Y.—Aug. 11, by P. J. Dooling, comr. Purchase, Municipal Bldg., fire brick to Dept. Street Cleaning.

Frogs, Slips and Crossings—Phila., Pa.—Aug. 9, by C. E. Walsh, purch. agt., Pennsylvania R.R. Co., 15 North 32nd St., West Phila., frogs, slips and crossings Contr. 97.

Slag Ballast—Phila., Pa.—See "Bridges."

Steel Roadway Castings—Chicago, Ill.—Aug. 10, by City, Room 406, City Hall, furnishing and delivering at bridge sites steel roadway castings for bridges at Lake, Erie and Franklin-Orleans Sts. R. W. Wolfe, comr. Pub. Wks.

Portland Cement—Minnesota—Aug. 16, by State Hy. Comn., St. Paul, approximately 36,857 bbl. portland cement.

Gravel — Houston, Tex. — Aug. 15, by Harris Co., 10,000 tons gravel. $10,000. A. J. Wise, Houston, engr.

Contracts Awarded

Portland Cement—Minnesota—State Hy. Comn., St. Paul, to Universal Portland Cement Co., 836 Security Bldg., Minneapolis, approximately 46,000 bbl. portland cement at $2.71 per bbl. at Crosby; $2.97 East Grand Forks; and $2.52 Wilson Station.

See proposal advertising on page 159

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Unit Price Lists Published in July, 1927

		Issue of
Approaches to Viaduct	Cincinnati, O.	July 28
Breakwater	Muskegon, Mich.	July 14
Bridge	New York-New Jersey	July 7
Bridges	Washington	July 14
Bridge	New York-New Jersey	July 21
Bridge	Oakland, Calif.	July 28
Conduit	Syracuse, N. Y.	July 14
Levee and Sea Wall	Beardstown, Ill.	July 28
Locks	Pittsburgh, Pa.	July 7
Paving	Lees Summit, Mo.	July 21
Road	Texas	July 14
Road	Michigan	July 21
Road	Kansas	July 28
Road	Indiana	July 28
Road	New Hampshire	July 28
Sewage Disposal Works	Parsons, Kan.	July 14
Sewage Pumping Station	Sound Beach, Conn	July 28
Sewers	Houston, Tex	July 14
Sewers	Sedalia, Mo.	July 14
Sewers	Sound Beach, Conn	July 21
Street Improvements	San Luis Obispo, Calif.	July 14
Water Mains	Syracuse, N. Y	July 21

Water Main—Houston, Tex.

Bids were opened by City, May 23, for laying 12-in. main on Franklin Ave. from Main to Chenevert Sts. and 8-in. main on Franklin Ave. from Chenevert to Chartres Sts., from (A) Southern Construction Co., (awarded contract); (B) The Piling & Foundation Co., Bankers Mortgage Bldg.; (C) C. K. Horton, 2200 Clay St. The unit bids are as follows:

	A	B	C
150 cu.yd. extra excav.	$1.00	$2.00	$1.00
1,500 man hrs. extra labor	.60	.50	.60
10 M. ft. B.M. timber ordered left in trench	40.00	40.00	40.00
20 cu.yd. road gravel	4.00	3.50	4.00
200 extra team hours	.90	.90	.80
For pipe furnished in 16-ft. lengths:			
100 lin.ft. laying 12-in. pipe 0–4 ft. deep	2.00	1.95	2.00
2,800 lin.ft. laying 12-in. pipe 4-6 ft. deep	2.00	2.10	2.20
900 lin.ft. laying 12-in. pipe 6-8 ft. deep	2.20	2.35	2.30
700 lin.ft. laying 8-in. pipe 4-6 ft. deep	1.10	1.20	1.50
250 lin.ft. laying 6-in. pipe 4-6 ft. deep	1.00	.95	1.25
For pipe furnished in 12-ft. lengths:			
100 lin.ft. laying 12-in. pipe 0-4 ft. deep	2.15	2.00	2.15
2,800 lin.ft. laying 12-in. pipe 4-6 ft. deep	2.15	2.20	2.35
900 lin.ft. laying 12-in. pipe 6-8 ft. deep	2.35	2.45	2.45
700 lin.ft. laying 8-in. pipe 4-6 ft. deep	1.15	1.25	1.60
250 lin.ft. laying 6-in. pipe 4-6 ft. deep	1.00	1.05	1.35
Totals	$21,625	$23,370	$23,630

Engineering News-Record, Issue of Aug. 4, 1927.

Road—Port Huron, Mich.

Bids were opened by Div. Engr., State Highway Dept., Port Huron, May 24, for constructing road in Casco and Ira Townships, St. Clair Co. and Lenox & Chesterfield Townships, Macomb Co., from (A) Bishop & Weir, 955 East Jefferson Ave., Detroit, (awarded contract); (B) White Construction Co., 735 Fullerton Ave., Chicago; (C) Pope-Foss Co., Mt. Clemens; (D) Murray & Fremont and Deckerville Construction Co. The unit bids are as follows:

	A	B	C	D
48,855 cu.yd. excav.—earth	$0.48	$0.60	$0.55	$0.60
10,259 sta.yd. excav.—overhaul	.02	.02	.03	.03
194 lin.ft. 12-in. encased tile culvert	1.40	1.40	1.50	1.50
30 lin.ft. 15-in. encased tile culvert	1.75	1.75	1.75	2.00
158 lin.ft. 18-in. encased tile culvert	2.25	2.00	2.60	2.40
56 lin.ft. 24-in. encased tile culvert	3.50	3.40	4.50	3.00
25 lin.ft. relaying 12-in. pipe	.50	.50	.75	.50
20 lin.ft. relaying 18-in. pipe	.60	.60	1.00	.75
333.6 cu.yd. concrete—grade B	16.00	16.00	15.00	18.00
325.3 cu.yd. concrete—grade C	16.00	16.00	15.00	18.00
25,858 lb. steel reinforcement	.05	.05	.06	.06
78 lin.ft. 12-in. reinforced concrete pipe	1.40	1.60	1.55	1.50
12 lin.ft. 12-in. reinforced concrete pipe	2.00	2.50	2.60	2.50
30 lin.ft. 30-in. corr. metal pipe	4.00	4.10	6.00	3.25
43 cu.yd. rip rap	4.00	8.00	9.00	5.00
7.65 mi. seeding	30.00	40.00	30.00	30.00
39 stas. removing brush	10.00	3.00	12.00	10.00
98 sq.yd. removing old pavement	.50	.50	1.25	.50
336 lin.ft. concrete header, detail No. 6	.50	.40	.60	.35
131 lin.ft. railroad header, detail No. 7	1.00	1.50	2.50	1.00
68 lin.ft. w.i. pipe railing	2.00	.60	.75	4.00
91,557 sq.yd. concrete pavement 7-in. center 9-in. edge (mesh reinf.) 5.4lb. per sq.yd.	1.66	1.75	1.92	1.91
Totals	$189,904	$203,899	$217,567	$220,481

Engineering News-Record, Issue of Aug. 4, 1927.

Bridges—Washington

Bids were opened by State Highway Department, Olympia, May 10, (lowest three) for constructing Camp Mason-Tanner Bridges on State Road No. 2, King County, from (A) Ward Construction Co., P. O. Box 1146, Tacoma, (awarded contract); (B) King & Stillwell, Seattle; (C) C. F. Martin, Seattle. The unit bids are as follows:

	A	B	C
190 cu.yd. class "A" excav	$1.00	$1.25	$4.20
915 cu.yd. structure excav	4.00	3.25	5.83
635 cu.yd. concrete class "A" in place	28.50	32.25	36.21
252 cu.yd. concrete class "B" in place	26.50	29.90	23.21
91 cu.yd. concrete class "C" in place.	25.00	20.85	20.65
142 cu.yd. concrete class "E" in place	22.00	20.40	22.91
142–160 lb. steel reinf. bars in place.	.06	.0575	.035
750 lb. bronze expansion plates in place	1.00	.60	.52
Totals	$43,304	$44,643	$45,473

Engineering News-Record, Issue of Aug. 4, 1927.

Sewer—Chicago, Ill.

Bids were opened by Sanitary District, 910 South Michigan Ave., June 2, for constructing North Side Intercepting Sewer, from (A) W. J. Newman, 21 North Curtis St., (awarded contract); (B) E. J. Albrecht; (C) D. J. O'Connor; (D) G. M. O'Brien; (E) Lydon Construction Co.; (F) Underground Construction Co.; (G) Byrne Bros. Construction Co.; contractors all of Chicago. The unit bids are as follows:

	A	B	C	D	E	F	G
2,425 lin.ft. sewer, 50 in. high by 32 in. wide	$28.00	$31.50	$31.50	$31.00	$81,237.50	$37.00	$48.50
Junction chamber (lump sum)	2,500.00	1,142.00	3,400.00	3,000.00	600.00	3,000.00	5,000.00
120 lin.ft. manholes	25.00	17.00	15.00	30.00	11.00	30.00	15.00
3,900 lb. iron castings and miscellaneous metals	0.10	0.09	0.10	0.15	0.095	0.10	0.25
200 lb. additional reinforcing steel	0.07	0.07	0.07	0.07	0.07	0.07	0.07
5 cu.yd. rock excavation	5.00	5.00	5.00	5.00	5.00	5.00	5.00
50 cu.yd. additional earth excav. in tunnel	5.00	5.00	5.00	5.00	5.00	5.00	5.00
50 cu.yd. additional concrete class A in tunnel	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Totals	$75,079	$81,209	$83,266	$83,649	$83,817	$98,004	$126,676

Engineering News-Record, Issue of Aug. 4, 1927.

UNIT PRICES ***continued on page 66a***

CORK on the Roof

Keeps Top Floors Cooler

HOW are *your* top floors these hot summer days? Are they as comfortable as the lower floors; or are they stifling with the heat that pours in through the roofs?

Insulating a roof with Armstrong's Corkboard will stop most of that heat. It will keep your top floor rooms as cool as those below and repay you quickly through the increased efficiency of employees working under comfortable conditions.

Moreover, you will find these same rooms easier to keep comfortably and uniformly warm in winter.

Armstrong's Corkboard is easily laid *right over your present roofing.* By installing it now, you can get the benefit of roof insulation for the rest of this summer, and have it for many summers and winters to come.

The Insulation of Roofs with Armstrong's Corkboard
The Insulation of Roofs to Prevent Condensation

Send for these Free Books

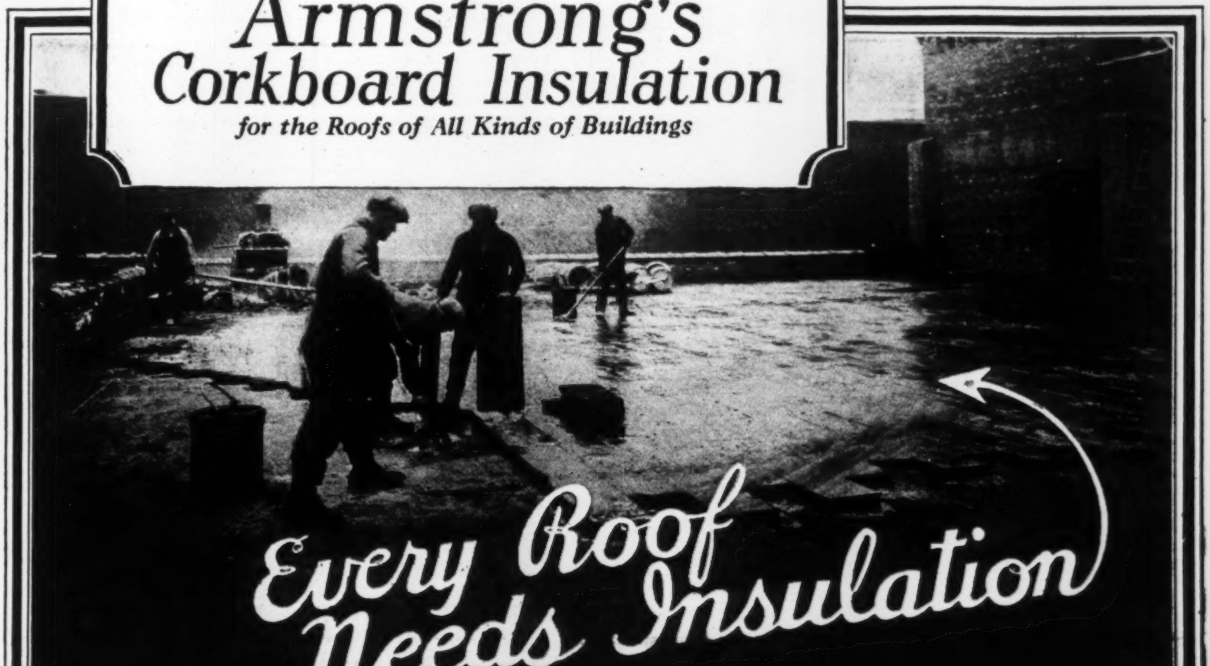
"The Insulation of Roofs with Armstrong's Corkboard" contains information on the insulation of all types of buildings.

"The Insulation of Roofs to Prevent Condensation" treats specifically the subject of condensation of moisture on ceilings. Write for these books to Armstrong Cork & Insulation Company, 218 Twenty-fourth Street, Pittsburgh, Pa.

Insulating the roof of the F. N. Burt, Inc., Factory Building at Buffalo, N. Y., with 2-inches of Armstrong's Corkboard.

Armstrong's Corkboard Insulation

for the Roofs of All Kinds of Buildings



UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Road—Texas

Bids were opened by A. J. Wise, County Engr., Courthouse, Houston, for constructing 17.6 mi. LaPorte Road, Harris Co., from (A) Tibbetts Construction Co., Joseph Bldg., Ft. Worth, (awarded contract); (B) Gibson & Mitchell, Pauls Valley, Okla.; (C) Haden & Austin, Houston. The unit bids are as follows:

	A	B	C
6.8 acre clearing	$25.00	$65.00	$50.00
6.8 acre grubbing	75.00	65.00	50.00
88,024 cu.yd. earth roadway excavation	.25	.31	.28
14,237 cu.yd. channel excavation	.30	.30	.25
1,109 cu.yd. structure excavation	.75	.75	1.00
35,464 cu.yd. earth borrow excavation	.25	.29	.25
78,451 sta.yd. earth overhaul	.04	.04	.05
600 roller hr. extra rolling base	3.00	1.50	2.50
272 m.gal. sprinkling base	2.00	2.00	2.50
136 m.gal. water hauled add. mile	1.00	.50	1.50
3,428 cu.yd. subgrade treatment material	2.30	2.00	2.20
13,572 cu.yd. subgrade material hauled add. ½ mile	.06	.07	.07
147,863 sq.yd. reconstructed base course	.03	.04	.03
3,453 cu.yd. base course matl. from barges	1.75	1.75	1.50
4,426 cu.yd. base course matl. from R.R. cars	2.20	2.10	1.90
47,635 cu.yd. base course matl. hauled add. ½ mile	.06	.07	.06
198,893 sq.yd. concrete pavement—Bates type	1.91	2.09	2.20
759,541 lb. reinforcing for concrete pavement	.045	.05	.0525
415 cu.yd. class "A" concrete	18.00	20.00	20.00
65 cu.yd. class "C" concrete	25.00	20.00	20.00
35,599 lb. reinforcing steel	.05	.05	.05
660 lin.ft. 15-in. concrete pipe in place	1.50	2.50	1.50
450 lin.ft. 18-in. concrete pipe in place	1.90	2.90	2.00
370 lin.ft. 24-in. concrete pipe in place	3.00	4.50	3.00
2 catch basins	50.00	75.00	100.00
300 sq.yd. plain riprap	1.50	2.50	2.00
600 sq.yd. old concrete riprap	1.00	1.50	.50
2,600 lin.ft. 6-in. concrete curb	.25	.20	.75
10 support for pavement at bridge ends	100.00	110.00	150.00
2,165 lin.ft. resetting guard fence	.10	.30	.15
2,000 hr. team time	.60	1.00	.90
2,000 hr. labor time	.35	.50	.45
Totals	$566,866	$557,342	$573,946

Engineering News-Record, Issue of Aug. 4, 1927.

Road—New Hampshire

Bids were opened by State Highway Department, Concord, Apr. 15, (lowest three) for constructing Rockingham Rd. in Salem Township, Project 198-C, from (A) B. Perini & Sons Co., Ashland, Mass., (awarded contract); (B) Central Construction Co., Lawrence, Mass.; (C) J. E. Watkins, Amesbury, Mass. The unit bids are as follows:

	A	B	C
1,001 cu.yd. earth excavation	$0.95	$1.10	$1.10
2,724 cu. yd. borrow	.95	1.15	1.10
1,286 cu.yd. Gravel base course one course reinforced concrete	1.20	1.15	1.10
12,300 sq.yd. pavement	2.25	2.45	2.50
12 cu.yd. class C concrete	25.00	20.00	20.00
88 lb. reinforcing steel	.08	.10	.05
92 lin.ft. laying 15 in. R.C. pipe	1.50	1.75	1.00
36 lin.ft. laying 24 in. R.C. pipe	2.50	2.00	1.50
200 lin.ft. wood guard railing	.60	.60	.70
744 lin.ft. wire cable railing WP	.75	.80	.75
Totals	$33,970	$37,045	$37,351

Engineering News-Record, Issue of Aug. 4, 1927.

Dike—St. Louis, Mo.

Bids were opened by Board of Public Service, June 14, for 2,100 ft. of hurdle dike extension of Dike No. 15 on St. Louis County side of Missouri River at Howard's Bend, from (A) Kansas City Bridge Co., Orear-Leslie Bldg., Kansas City, (awarded contract); (B) Fruin-Colmon Contracting Co., Merchants-Laclede Bldg. The unit bids are as follows:

	A	B
215,000 sq.ft. brush mattress	$0.08	$0.15
5,000 cu.yd. stone	4.50	5.00
65,800 ft. piling	35	.30
65,800 ft. piling driven	.35	.40
Totals	$85,760	$103,310

Engineering News-Record, Issue of Aug. 4, 1927.

Sewers—Union, N. J.

Bids were opened by H. Kreh, Jr., Township Engr., Union Center, June 8, for constructing sewers in Elmwood Ave. and other streets, from (A) Decker & Canning, 395 Grove St., Newark, (awarded contract); (B) L. R. Gilbert, Plainfield; (C) J. Miele & Co., East Orange; (D) Pizzimenti Bros., Little Falls; (E) Spinello Construction Co., Orange; (F) J. Cestone, Montclair; (G) Paulsen Construction Co., New York City. The unit bids are as follows:

	A	B	C	D	E	F	G
800 cu.yd. rock excavation	$2.75	$1.00	$3.50	$3.00	$4.00	$4.00	$5.00
3,600 cu.yd. quicksand	3.00	2.50	3.50	3.00	2.75	4.00	13.00
180 M ft. B.M lumber in place	85.00	25.00	70.00	25.00	65.00	70.00	20.00
100 cu.yd. class "C" concrete	15.00	10.00	15.00	12.00	15.00	19.00	10.00
250 lin.ft. 8 in. sewer 0- 6 ft. deep	1.22	1.70	1.25	1.30	1.50	1.30	2.35
1,500 lin.ft. 6- 8 ft.	1.43	1.70	1.50	1.50	1.60	1.40	2.45
5,850 lin.ft. 8-10 ft.	1.50	2.10	1.70	2.00	2.35	1.80	2.80
175 lin.ft. 10-12 ft.	2.00	2.40	2.25	3.00	2.90	2.50	3.20
880 lin.ft. 15 in. sewer 6- 8 ft. deep	2.00	3.50	2.35	3.50	3.50	4.00	3.25
425 lin.ft. 8-10 ft.	2.40	4.00	2.70	4.25	4.50	5.00	3.60
1,620 lin.ft. 10-12 ft.	2.90	4.50	3.25	5.00	5.00	6.00	4.10
590 lin.ft. 12-14 ft.	3.38	5.00	4.65	8.00	6.00	7.00	4.85
880 lin.ft. 14-16 ft.	4.50	7.00	6.50	10.00	7.00	9.00	6.32
250 lin.ft. 18-18 ft.	6.00	9.00	7.50	12.00	8.00	12.00	7.85
1,100 8x4 in. tees	1.25	1.00	2.00	1.00	2.00	1.50	1.20
100 15x4 in. tees	2.93	2.00	3.25	4.00	4.50	5.00	3.50
25 cut-in connections	8.00	5.00	3.00	4.00	2.00	5.00	2.00
4,000 ft. 4 in. C. I. house connections	1.25	1.50	1.25	1.25	1.50	1.35	2.00
140 manholes	85.00	70.00	80.00	90.00	90.00	100.00	100.00
45 ft. drop manholes	20.00	2.00	15.00	10.00	20.00	10.00	15.00
410 ft. deep house connections	3.25	2.00	2.00	2.00	2.50	1.50	3.00
400 cu.yd. broken stone	4.50	3.00	4.00	6.00	8.00	7.00	3.00
Totals	$107,723	$107,766	$112,632	$116,096	$126,571	$129,466	$137,900

Engineering News-Record, Issue of Aug. 4, 1927.

Constr. News page 66a

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Railway, Missouri, Kansas City, Mexico and Orient R.R. Co. making plans, $7,000,000.

Streets and roads, Texas, Edinburg-Hidalgo Co. election Sept. 6, $6,000,000.

Bridge, Rhode Island, Mt. Hope Bridge Co. having plans prepared suspension bridge across Mt. Hope Bay, $5,500,000.

Kraft paper mill, Port Townsend, Wash., Nat'l Paper Products Co. having plans prepared, $2,500,000 to $3,000,000.

Streets and roads, Sherman, Tex., Grayson Co. voted bonds, $2,500,000.

Hotel, Pueblo, Colo., P. H. Philbin, purchased site and had plans prepared, $2,000,000.

Cement plant, St. Louis, Mo., Missouri Portland Cement Co. takes bids about Sept. 1. Approximately $2,000,000.

Theatre, San Antonio, Tex., Interstate Amus. Co. having plans prepared, $2,000,000.

Hospital, Bayonne, N. J., Jewish Hospital Ass'n takes competitive sketches about Oct. 15, $2,000,000.

Hotel, Asbury Park, N. J., Kelly Co. plans, $1,500,000.

Streets and roads, Council Bluffs, Ia., Pottawatomie Co. voted bonds, $1,600,000.

Streets and roads, Athens, Tex., Henderson Co. making plans $1,400,000.

Streets and roads, Sigourney, Ia., Keokuk Co. voted bonds, $1,300,000.

Streets and roads, Refugio, Tex., Refugio Co. bonds election soon, $1,250,000.

Streets and roads, West Union, Ia., Fayette Co. voted bonds, $1,200,000.

Factory, Los Angeles, Calif., Firestone Rubber Co. plans, $1,000,000.

Polytechnic school Baltimore, Md., Mayor and City Council having plans prepared, $1,000,000.

Building, Los Angeles, Calif., Lilly-Fletcher Syndicate having plans prepared, to exceed $1,000,000.

Pipe foundry, Pueblo, Colo., Colorado Fuel and Iron Co., plans, $1,000,000.

Hospital, Camden, N. J., Dept. Pub. Health, having plans prepared, $1,000,000.

Bank and office, Pasadena, Calif., First Trust and Savings Bank and First Nat'l Bank soon take bids, $1,000,000.

Contracts Awarded

Sewers, Chicago, Ill., Sanitary Dist. of Chicago to Foschner Contg. Co., $3,827,120; to Builders Iron Fdry. Co., $57,834; to Chapman Valve Mfg. Co., $33,327. Total $3,918,281.

Office building, Chicago, Ill., Holabird and Roche to McLennan Constr. Co., $3,150,000.

Natural gas system, Texas, Western Gas and Fuel Supply Co., to Atex Constr. Co., approximately $2,500,000.

Office building, Chicago, Ill., De Paul Educational Society, to McLennan Constr. Co., $2,000,000.

Office building, Chicago, Ill., Riseman and Hirschfield to Dilks Constr. Co., 2,000,000.

Apartment store and garage, Chicago, Ill., Syndicate, incl. H. F. Knipp, to Dahlberg & Sundrin, Archts. est. $1,115,000.

Apartment, Oakland, Calif., Bercovich & Associates, to Pacific Coast Engineering Co., $1,000,000.

Waterworks, Rochester, N. Y., Lake Ontario Water Co., to J. G. White Corp., Engrs. est. $1,000,000.

News of the Week

Waterworks

Proposed Work

N. J., Runnemede — (Sta. Camden) — Boro Council, plans waterworks system, incl. 7 mi. 4- to 6-in. pipe, etc. $105,000. W. D. Vosbury, Camden, engr.

La., Monroe—Made plans and takes bids about August 15 filtration plant, distribution mains, etc. $600,000. Burns & McDonnell Eng. Co., 402 Interstate Bldg., Kansas City, Mo., engrs. Noted June 9.

Tenn., Nashville—Bd. Pub. Wks. soon takes bids laying 3 mi. trunk line in northeast part of city. To exceed $15,000. H. E. Howse, mayor. Noted June 23.

Minn., St. Paul—J. W. Kelsey, supt. Water Bd. making plans water tower, 110 ft. high and 36 ft. diam. to house 200,000 gal. tank in Highland Park. $60,000. F. X. Tewes, City Hall, archt.

Kan., Longton—Voted $80,000 bonds waterworks and sewerage systems. F. E. Devlin, 614 Bitting Bldg., Wichita, engr.

Mo., Cabool—Voted $39,000 bonds, 100,000 gal. rein.-con. reservoir, deep well and pumping equipment, 60,000 gal. tank on tower, distribution mains, etc. A. H. Kendricks, Seymour, engr. Noted Dec. 30.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, received no bids July 26, guides, brackets and fixed screen refuse troughs, c.i. water supply pipe, etc. for three traveling water screens in intake at Howards Bend Waterworks Station on Missouri River, St. Louis Co. Will readvertise. L. Day, comr. Noted June 30.

Ark., Fort Smith—Soon takes bids turbine driven centrifugal pump for waterworks station. $40,000. W. H. Evans, City Hall, engr.

Ark., Springdale—Soon takes bids filtration plant, etc. $50,000. Alexander Eng. Co., Woodruff Bldg., Springfield, Mo., engr.

Tex., Alice—Voted $10,000 bonds well and pumping equipment for waterworks. Address P. S. Anderson, Alice, secy.

Tex., Balmorhea — Borderland Utilities Co., plans complete waterworks incl. wells or reservoir, pumping unit, etc. $35,000. Private plans.

Tex., Barreda (mail San Benito)—Gillock Development Co. c/o Lasby & Crawford, San Benito, making preliminary plans complete waterworks incl. power plant, etc. $50,000. Private plans. Noted Aug. 4.

Tex., Beaumont—See "Unclassified."

Tex., Glen Rose—Made plans complete waterworks and sewage system. H. B. McAllister, 519 North 12th St., Waco, engr.

Tex., Hico—Making plans water works improvements. H. B. McAllister, 519 North 12th St., Waco, engr.

> *THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.*
>
> *Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.*

Tex., Point Isabel—James Dickensen, making plans rein.-con. 2 m.g. settling basin, $100,000. Private plans.

Okla., Faxon — Voted $15,000 bonds, new well, pump and 51,000 ft. 4 and 6 in. c.i. pipe, etc. C. Riggins, Anadarko, engr.

Calif., Glendale — See "Streets and Roads."

Calif., Sebastopol—Making plans additions to water system, 3,000 lin.ft. 10 in. c.i. main, and one 500,000 gal. reservoir. G. L. Dillman, 14 Montgomery St., San Francisco, engr. Noted July 7.

Bids Desired

Mass., Westfield—Sept. 12, by Bd. Pub. Wks., earth dam and reservoir. O. E. Parks, supt.; adv. E. N.-R. Aug. 11.

R. I., North Tiverton (mail Tiverton)—North Tiverton Fire Dist., H. Ibbotson, clk., taking bids and opens same about Aug 15, complete equipment and appurtenances in pump house for proposed water works, incl. necessary pipe fittings and meters.

N. Y., Corning — Aug. 22, by Bd. Pub. Wks., constructing pumping station and force main, in Denison Park, H. Burdett Cleveland, 225 Bway., New York City, consult. sanitary engr.; adv. E. N.-R. Aug. 11.

Md., Baltimore — Aug. 17, by Bd. of Awards, copper pipe for Bureau of Water Supply. G. F. Wieghardt, City Hall, water engr.

N. C., Goldsboro—Aug. 25, by Mayor and Bd. Alderman, waterworks improvements, W. C. Olsen, Inc., Raleigh, engr.; adv. E. N.-R. Aug. 11.

N. C., Wilson—See "Sewers."

Mich., Detroit—Sept. 28, by Dept. Pub. Wks., 4 vertical motor driven pumping units 500 cu.ft. capacity per sec. against 27 ft. head, for Conners Creek, storm water pumping station. J. W. Reid, comr. Pub. Wks.

Ill., Thornton—Aug. 17, by Bd. Trustees, tubular well. C. J. Fleck, village clk.; adv. E. N.-R. Aug. 11.

Mo., St. Louis—Aug. 23, by Bd. Pub. Serv., 208 City Hall, 4 boiler settings for 650 hp. boilers, brick construction with steel lagging, incl. complete combustion control system, etc. for Howard Bend Waterworks Station on Missouri River, St. Louis Co. $40,000. L. Day, City Hall, comr.

Mo., St. Louis—Aug. 30, by Bd. Pub. Serv. 208 City Hell, rein.-con. clear water basin at Howards Bend Waterworks on Missouri River, St. Louis Co. $270,000. L. Day, City Hall, comr.

Tex., Alpine—see "Contracts Awarded."

Tex., San Antonio—See "Unclassified."

Bids Received

N. Y., Syracuse—Bd. Contract & Supply, City Hall, A. Mingler Jr., secy., 487,100 cu.yd. excavation for city reservoir from J. Young, West Brighton Ave. and Hunt. St., $210,000. Noted July 21.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, July 28, improving Queen lane filters, Contr. 890, from Penna Eng. & Constr. Co., Real Estate Trust Bldg. $13,322; and engine room floor at Torresdale Pumping Station, Contr. 891, from Acme Mach Co., 27 North 38th St. $20,000.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, July 26, 1 story and basement, 53 x 60 ft., rein.-con. and brick substation in Dist. E of City Electric Light System, from Atlas Constr. Co., International Life Bldg., $18,000. Noted June 30.

See proposal advertising on page 136

TRADE "LEADITE" MARK

Registered U. S. Pat. Office

Eliminating Repairs and Maintenance Costs

TRENTON WATER WORKS, Trenton, N. J., has been using Leadite for making joints in c. i. bell and spigot water mains for a great many years with entire satisfaction.

They have laid nearly 75 miles of c. i. pipe of various sizes with Leadite joints.

Trenton has very good paved streets and they have never had to dig up a Leadite joint for repairs during all the time they have been using Leadite. They consider this excellent performance for Leadite joints.

They find the use of Leadite has reduced to a minimum repairs and maintenance costs.

Trenton Water Works has always found Leadite joints efficient and economical.

They keep a check on their distribution system by water waste surveys.

During the severe winter of 1917-18 Trenton Water Works had over 2000 frozen services. Many of these services were connected to mains laid with Leadite joints. They had no difficulty in thawing, with electrical apparatus, services connected with mains which were laid with Leadite joints.

Mr. Alvin Bugbee is Superintendent of the Trenton Water Works.

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and accept no imitations

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Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

Contracts Awarded

Mass., Boston—Metropolitan Dist. Water Supply Comn., 24 School St., Boston, 6,750 ft. 20 in. c.i. pipe in Hopkinton, to Portland Contg. Co., Exchange St., Portland, Me., $54,963. Noted June 23.

Miss., Macon—Deep well, pumping equipment, etc., to Layne-Bowler Co., Chelsea Ave., Memphis, Tenn., $16,000. Noted June 9.

R. I., North Tiverton—North Tiverton Fire Dist. Comn., Milton St. water works, piping, etc. to G. Ferullo Co. 31 North Sq., Boston, Mass. $166,214. Noted July 14.

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenue H, Varick, and 19th Aves., here to Riverdale Water Works Co., 355 East 113th St., New York City, $25,696. Noted July 21.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Queens and Winchester Blvds., Roosevelt and 50th Aves., etc. to Wataga Constr. Co., 308 Lenox Ave., New York City, $6,440 and to Gregory Constr. Co., 351 East 124th St., New York City, $11,888. Noted July 21.

N. Y., Rochester—Lake Ontario Water Co., 16 Main St., West, 20 in. main through Irondequoit and here, and improving pumping station, etc. to J. G. White Eng. Corp., 43 Exchange St., New York City, Engrs. est. $1,000,000.

Mich., Wyandotte—For 55,000 ft. 6- to 8-in. c.i. mains, etc., in Dists. 89, 90 and 99 to J. A. McDace Co., 2016 Webb Ave., Detroit, $113,735; also 55,000 ft. 6- to 8-in., c.i. mains in Dists. 87, 88, 97 and 98 to Coleman & Harding, 19,417 Derby Ave., Detroit, $117,192. Noted June 30.

Wis., Norwalk—V. C. Wruck, village clk., waterworks, to Phelps-Drake Co., 623 Metropolitan Life Bldg., Minneapolis, Minn.; concrete work, to A. R. Cosseen, Decorah, Ia., approximately $35,000. Noted July 7.

Tex., Alpine—Borderland Utility Co., Alpine will build waterworks in various streets by own forces. $40,000. Private plans.

Tex., Laredo — Central Power & Light Co., c/o S. M. Udden, Frost Bldg., San Antonio, pumping station and filtration plant near the Rio Grande River, here, to McKenzie Constr. Co., c/o Travis Bldg., San Antonio, $134,574. Noted July 28.

Okla., Sperry—New well, triplex pump and motor, 13,600 ft. 4- to 8-in. c.i. mains, etc., to G. C. Hogle, Sperry, $42,211. Engrs. est. $50,000.

Calif., Burbank—Rein.-con., reservoir, storm drain, etc., to M. S. Ross, Holly Security Bldg., Los Angeles, $50,887.

Sewers

Proposed Work

Tenn., Granfield—See "Street and Roads."

Ind., Elwood—Making preliminary plans sewer in 28th St. $64,000. Address City Clerk, Elwood.

Ind., Indianapolis—Making preliminary plans 11 mi. sewers in 31 streets west of Eagle Creek. $200,000. P. Brown, City Hall, engr.

Ill., Pekin—Soon takes bids complete sewerage system in North Side Dist. $120,000. Kinsey Eng. Co., Pekin, engr.

Wis., Madison—Making plans extending sewers in various streets. $215,000. E. E. Parker, City Hall, engr.

Ia., Maxwell—City rejected bids July 25, sanitary sewerage system and sewage disposal plant. Will readvertise. Currie Eng. Co. Webster City, engr.

Kan., Longton—See "Waterworks."

Mo., Clarence—See "Waterworks."

Mo., Rolla—Voted $50,000 bonds complete sanitary sewerage system. Black & Veatch, 700 Mutual Life Bldg., Kansas City, engrs.

Mo., Springfield—Takes bids about Aug. 25, outfall sewer in northwestern part city, approximately 2 mi. 30 in. pipe, sewage disposal plant, incl. two 50 ft. clarifiers, two 55 ft. digesters, 2.5 acres trickling filters, screen house and dosing tanks, etc., $185,000. Russell & Axon, 404 McDaniel Bldg., engrs.

Mo., St. Louis—Making preliminary plans vitr. clay sewers in Rock Creek Sewer Dist. 11, bounded by Ray and Wilmington Aves., Morgan Ford Rd., Bowen, Leona and Bates Sts. $26,000. W. W. Horner, 300 City Hall, engr.

Ark., Hot Springs—Making preliminary plans complete drainage system, incl. 3 dams, laterals, etc. in Central Ave., and adjoining streets, $350,000; also 2 septic tank stations, $200,000. Smith & Annen, Hot Springs, engrs.

Tex., Beaumont—See "Unclassified."

Tex., Glen Rose—See "Waterworks."

Tex., San Antonio—See "Unclassified."

Calif., Fresno—Making plans laying 4,050 lin. ft. 6- to 8-in. vitr. sewer in Pickwick addition. A. M. Jensen, city engr.

Calif., Hawthorne—See "Streets and Roads."

Calif., Los Angeles—See "Streets and Roads."

Calif., San Francisco—Making plans sewers in Laguna Honda Blvd. from Noriega Ave., south. $30,000. M. M. O'Shaughnessy, city engr.

Ont., Kitchener—Making plans rein.-con., brick and steel activated sludge sewage disposal plant, etc. near Doon, $750,000. S. Shupe, City Hall, engr. Gore, Nasmith & Storrie, Confederation Life Bldg., Toronto, consult. engrs.

Ont., Toronto—Plans 8 in. vitr. tile sewers in approximately 1⅓ mi. Pope and Sycamore Places, Walpole and Ellis Aves., Crawford St., Old Bridle Path, and 5 lanes. $25,085. R. C. Harris, City Hall, engr.

Bids Desired

Pa., Coatesville—Aug. 29, by L. F. Hoffman, supt. Dept. Streets & Improvements—1,780 ft. 8 in. terra cotta, and 2,565 ft. 18- to 36-in. terra cotta or rein.-con. sewers, etc.; adv. E. N.-R. Aug. 11.

Pa., Kittanning—Sept. 5, by W. G. Aye, boro engr., approximately 7,400 ft. 18 and 24 in. sewers in various streets; adv. E. N.-R. Aug. 11.

N. C., Wilson—Aug. 16, by C. R. McLean, mayor, and Bd. Comrs., 41,000 ft. 2- to 18-in. vitr. sewers along Hominy Swamp, also 8 in. laterals in various parts of city, and extending waterworks. R. D. Gladding, Wilson, consult. engr.

O., Akron—Aug. 18, by W. F. Peters, dir. Pub. Serv., 3,140 ft. 30- to 36-in. vitr. clay or segmental block intercepting sewer along Ohio Canal Interceptor. $77,000. J. E. Root, Municipal Bldg., engr.

O., Willowick—Aug. 13, by Village, 1.5 mi. sewers in Wordon, Whitewood, Oakdale, and Forest Rds., etc. Sterling Engr. Co., 7016 Euclid Ave., Cleveland, engrs.

Kan., Eldorado—Aug. 16, by City Clerk, 3,830 ft. 12 in. vitr. clay sewers, etc., for Main sewerage system. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Tex., Harlingen—Aug. 17, by City, 21,300 ft. 18- to 48-in. sewers in various streets. A. Tamm, city engr.

Tex., Houston—Aug. 24, by City, O. F. Holcombe, mayor, vacuum sludge filter system complete to be used in the enlargement of North Side Sewage treatment plant. J. C. McVea, Houston, engr.

Okla., Ada — Aug. 18, by City Clerk, sewage disposal plant. $45,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted July 7.

Bids Received

Mass., Boston—Dept. Pub. Wks., sewerage system in River St. etc. in Dorchester and Hyde Park, from De Christoforo Bros. Co., 38 Glendale Rd., Roslindale, $66,387. Noted July 21.

N. Y., Buffalo — Constructing rein.-con. drain for Scajacada Creek, from Buffalo Dredging & Constr. Co., Morgan Bldg., $223,000.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Aug. 2, sewers in Kingsland Ave. from J. Gallo, 169-10 State St., Flushing, $77,944. Noted July 28.

N. Y., New York—W. J. Flynn, acting pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., Aug. 4 sewers in Nereid Ave. from Commerce 1910 Webster Ave., $60,466 and in East 233rd St. from C. Turiano Contg. Co., 2911 Coddington Ave., $19,282. Noted July 28.

Mich., Detroit—Dept. Pub. Wks., July 20, 4,037 ft. concrete sewer in tunnel, etc., in Detroit River Interceptor Sec. 4, Jefferson Ave., and 3.971 ft. Sect. 5 from S. A. Healy, 1007 American State Bank, $324,950 and $356,545 respectively. Noted July 14.

Mich., Detroit—Dept. Pub. Wks., July 27, backwater gates for East Jefferson Ave., Sewer Dist., incl., 24,015 cu.yd. excav., etc., from Lennane & McIlvenna, 7777 West Chicago St., $450.000. Noted July 21.

Ia., Grinnell—City Clerk, 25 x 48 ft. sludge digestion tank, 113 x 128 ft. sprinkling filter, 60 x 100 ft. sludge bed and 1,600 ft. 24 in. vitr. pipe sewers, from A. Emmet, Newton, $60,900. Noted Dec. 9.

Neb., Omaha—Storm sewer in Dist. 918, Saddle Creek, Omaha Sewer Constr. Co., 1805 Dodge St., $73,222; Dist. 928, from H. J. Peterson Co., 303 Baum Bldg., $69,923; and Dist. 941, from P. McArdle, 1901 Park Ave. $14,472.

Contracts Awarded

Mass., Boston—Dept. Pub. Wks., sewerage works in Oakland St. etc., West Roxbury, to A. Baruffaldi, 52 Powder House Blvd., West Somerville, $144,909. Noted June 30.

Mass., Lakeville—Comr. Pub. Health, sewerage system, disposal works and connections to existing sewers at Lakeville Sanatorium, to A. Grande, 60 Branden St., Rosindale, $33,000. Noted July 7.

R. I., Providence—Sewerage works in various streets to V. N. Famiglietti, 202 Bway, Engrs. est. $25,000.

Conn., West Hartford (br. Hartford) — Street and Sewer Comn., Town Hall, 44,100 ft. 8- to 18-in. vitr. tile sewers in various streets, to L. Petiossi, 540 Wethersfield St., Hartford, $171,000.

N. Y., Bolivar—Village Trustees, constructing sewerage system and disposal works, here, to S. Ryan and A. Schiavani, Niagara Falls, $91,930.

N. Y., Port Washington—Bd. Sewer Comrs. Port Washington Sewer Dist. approximately 760 ft. 12 in. vitr. sewer pipe in Main St. to Hoban Corp., Manhassett, Noted June 30.

O., Akron—For 930 ft. 30- to 36-in, segmental block South Maple St. Relief Sewer, to McAlonan Bros., 506 Woodland Ave., $25,357; also 7,350 ft. 8- to 15-in. sanitary sewer in Margaret Park Dist. (Summit Lake Blvd., et al), to C. Lombardi, 249 Crosby St., $78,807.

Mich., Clawson—For 10,880 ft. 10- to 33- in. vitr. and concrete sewers, etc. in Roth and Goodale Sts., to R. D. Baker, 1631 Elmhurst Ave., Detroit, $30,750.

Mich., Wyandotte—For 76,000 lin. ft. 12-in. to 5- ft. concrete and vitr. sewers, in Assessment Dist. 76, to Oakwood Constr. Co., Oakwood Blvd., Detroit, $269,747. Noted June 16.

Ill., Chicago—Sanitary District of Chicago, 910 South Michigan Ave., West Side Sewage Treatment Works, Divisions D and J, pumping stations, tanks, grit chambers, etc., to T. J. Forschner Contg. Co., 5201 West Pershing Rd., $3,827,120, Division E, sewage meters, to Builders Iron Foundry Co., 9 Codding St., Providence, R. I. $57,834 and Division K, service gates and valves, to Chapman Valve Mfg. Co., Pine I. O., Springfield, Mass., $33,327. Grand total $3,918,281. Noted June 16.

S. D., Sioux Falls—Trunk sewer in Southside, to A. Fanebust, Sioux Falls, $82,378. Noted May 27.

Mo., Kansas City—Sanitary sewers in Dist. 581, Div. 6, to J. Spitcausky, 2452 Benton Blvd. $28,145.

Mo., Springfield—Sewers in Dist. 3, Sect. 9, to W. F. Plummer, Union State Bank Bldg., $40,066.

Tex., Arlington—Sewers in various streets in North Side, to R. J. Estep & Co., 6631 Gaston St., Dallas, $32,214. Noted June 16.

Tex., Brownsville—For 16- to 24-in storm and sanitary sewers, etc. in various streets to Kirkwood, Wharton & Lee, 456 Main Ave., San Antonio, $72,857.

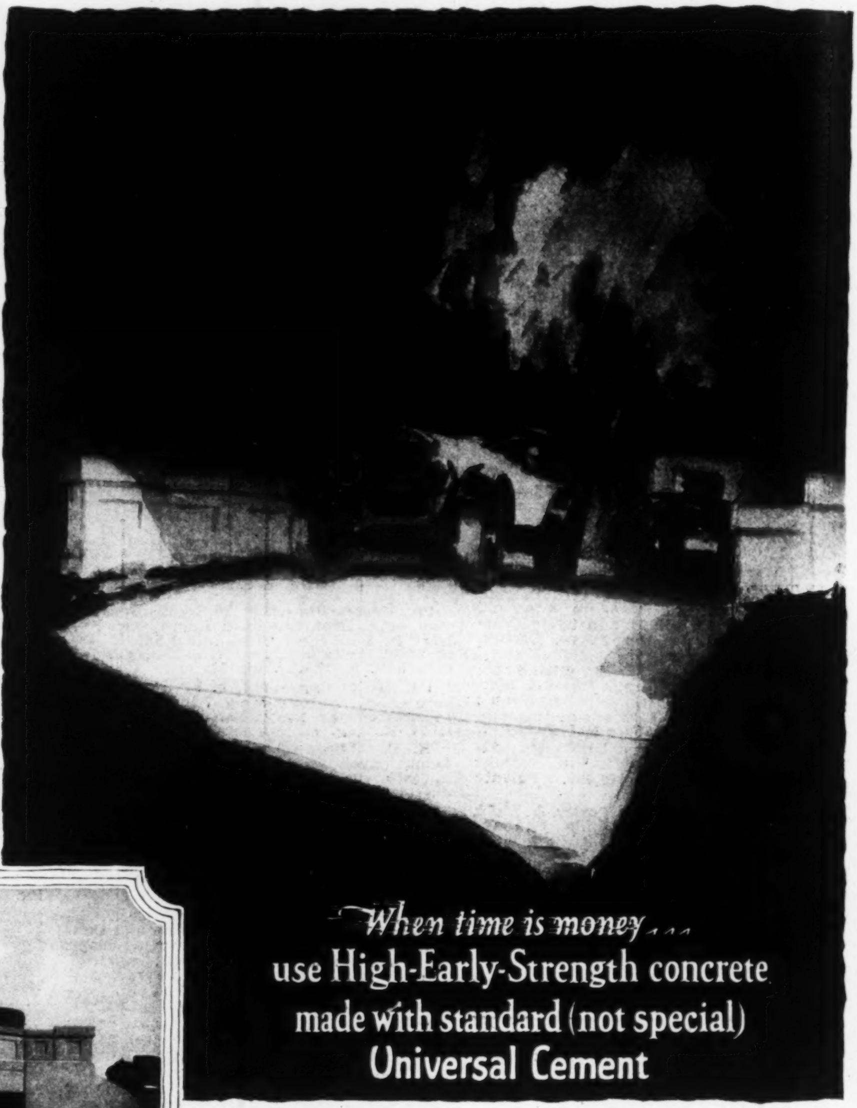
Tex., McLean—Complete sewerage system and disposal plant to Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $45,988.

Tex., Waco—For 40,029 ft. 6- to 12-in. sewers in South Waco, to W. G. Cullum & Co., Dallas, $30,256.

Calif., Los Angeles—County Sanitary Dist. 2, rein.-con. sewers etc., from Wilmington to Rocha Sts., to Ross Constr. Co., Van Nuys Hotel, $214,800.

Calif., Lynwood — Constructing vitr. sewers etc. in A & 1 Dist. 11, to B. Bosnyak, 2215 Shoredale Aves., Los Angeles, $49,839; A & 1 Dist. 10 (Ferndwood Ave., etc.) to Miracle Constr. Co., 1604 Dale St., San Diego, $79,908; in A & 1 Dist 9 (Long Beach Rd.) to Dalmatin & Nickevich, 841 West 62nd St., Los Angeles, $100,427 and

Constr. News page 68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use High-Early-Strength concrete
made with standard (not special)
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Cuts Two Weeks From Detour Period And Also Gives Better Concrete

Thousands of motorists were spared the time-loss and inconvenience of a long detour thru the simple use of *High-Early-Strength* Universal Concrete in the construction of a bridge in Lyon County, Iowa.

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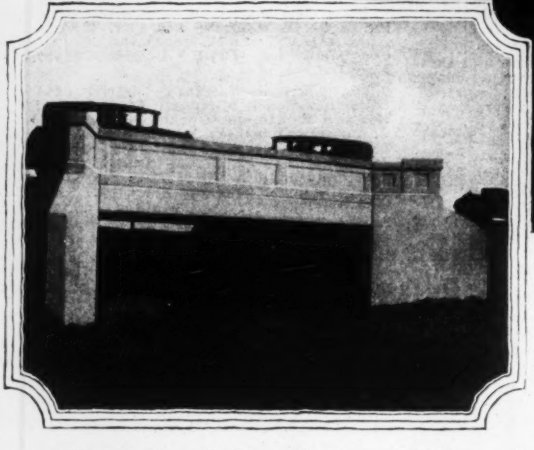

Bridge at Inwood, Iowa. Detour period shortened by two weeks thru the use of *High-Early-Strength* Universal Concrete. R. H. Fuller, county engineer; Frank Humphrey, Cherokee, Iowa, contractor. Standard—not special—Universal cement furnished by Schoeneman Bros. Co., Inwood

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Without obligation, please send me detailed information on methods for securing strong concrete in *3 days* with the usual materials.

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ENR 8-11-27

Sewers (Continued)
in A & 1 Dist. 8 (Redwood Ave., Flower, Peach Sts., etc.) to Drainage Constr. Co., Box 345, Santa Ana, $179,098. Grand total $409,272. Noted July 28.

Calif., Sacramento — For constructing Sewer System Unit 3 to Gould & Pollock, Forum Bldg., $268,936. Noted July 28.

Calif., Sacramento—Constructing Unit 4 of sewerage system, here, to F. P. Bassler, Forum Bldg., $80,765.

Waste Disposal

Proposed Work

N. J., New Brunswick—Made plans and takes bids about Aug. 25, 50 x 80 ft. brick and concrete incinerator, incl. 155 ft. stack, etc. $115,000. A. Atkinson, City Hall, engr. Noted June 2.

Contracts Awarded

N. Y., Wellsville—Water & Light Dept., W. E. J. Rowe, engr., for 25 ton garbage incinerator to Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa. $27,500. Noted May 12.

Bridges

Proposed Work

Rhode Island—Mt. Hope Bridge Co., W. R. Compton Co., 44 Wall St., and Peabody, Houghteling Co., 38 Wall St., New York City, N. Y., have retained Robinson & Steinman, 25 Church St., New York City, N. Y., consulting engrs., preparing plans and supervising construction 1,200 ft. span suspension bridge across Mt. Hope Bay between Bristol and Portsmouth, here. Probably take bids in September. $3,500,000.

Tennessee—State Dept. Highways & Pub Wks., Nashville, takes bids about Sept. 15, rein.-con. bridge over Chattanooga Creek on State Road 2, Hamilton Co. To exceed $25,000. C. N. Bass, highway comr.

Tenn., Elizabethtown—Carter Co. and State Dept. Highways & Pub. Wks., Nashville, soon take bids rein.-con. bridge over Wanonga River, near here. To exceed $25,000. C. N. Bass, highway comr. Noted May 26.

Tenn., Huntsville—See "Streets and Roads."

O., Dayton—Montgomery Co. plans 20 ft. span rein.-con. bridge and steel and 80 ft. span steel super-structure, both 20 ft., on Bellbrook and Alexandersville Rds. $35,000. W. O. Pease, Court House, co. surv.

Wis., Superior—Northern Pacific R.R. Co., H. E. Stevens, ch. engr., St. Paul, Minn., making plans 1,462 ft. forty-five 32 ft. concrete, I-beams span bridge over railroad tracks, here. $300,000.

Ia., West Union—See "Streets and Roads."

Mo., Springfield—Webster Co. defeated $400,000 bonds, bridges and roads.

Tex., Archer City—See "Streets and Roads."

Tex., Athens—See"Streets and Roads."

Tex., Kinney—Brackettville Co. making plans two concrete bridges across Elm and Aransas Creeks, on Highway 3, $28,300,- W. F. Hutson, Brackettville, engr.

Tex., Palo Pinto—Palo Pinto Co. making preliminary plans concrete, steel and timber bridge over Brazos River. $50,000. Address E. L. Pitts, Palo Pinto, co. judge.

Tex., Plemons—Hutchinson Co. making plans 350 ft. concrete and steel bridge across Canadian River. $200,000. Address W. R. Goodwin, Plemons, co, judge.

Tex., Waco—Making plans 80 ft. rein.-con. and steel, bridge across North 15th St. $30,000, also 90 ft. steel and concrete bridge across above street, $35,000. E. E. McAdams, city mgr.

Wash., Cashmere—J. A. Willson, comr. Chelan Co., Wenatchee, plans replacing Kinney Bridge, over Wenatchee River, with 350 ft. long with 20 ft, planked floor. $50,000. J. Duff, Cashmere, co. engr.

Calif., Hanford—Kings Co. plans bridges on Hub Highway, 3 over John Cut Ditch, $84,596 and 1 concrete bridge over South Fork, $30,200. R. May, co. surveyor.

Calif., Marysville—Western Pacific R.R. Co., J. W. Williams, ch. engr. Mills Bldg., San Francisco, made plans steel and rein.-con. bridge over Yuba River near here, $200,000. Private plans.

Calif., Vernon—City made plans concrete arch span bridge, over Los Angeles River, incl. 361,400 lb. reinforcing, 19,000 cu.yd. excav., etc. M. McCurdy, city engr.

Bids Desired

R. I., Coventry—Aug. 24, by State Bd. Pub. Wks., Providence, Summitt R.R. Bridge, Federal Aid Project 38-B, here; adv. E. N.-R. Aug. 11.

Pa., Hamburg—Aug. 16, by T. R. Houck, controller Berks Co., Court House, Reading, rein.-con. bridge over Schuylkill River, here; adv. E. N.-R. Aug. 11.

Del., Wilmington—Aug. 30, by president of Levy Court, County Bldg., one 40 ft. span bridge 303 on Bethlehem Causeway and one 40 ft. span bridge 305 on Red Lion Causeway over Red Lion Creek. C. E. Grubb, co. engr.; adv. E. N.-R. Aug. 11.

North Carolina—Aug. 23. by State Hy. Comn., Raleigh, rein.-con. bridges and culverts in Polk, Catawba. Alexander and Iredell Counties. $349,000. L. R. Ames, state highway engr.

South Carolina—See "Streets and Roads."

Georgia—See "Streets and Roads."

Miss., Yazoo City—Aug. 16, by Bd. Supervs. Yazoo Co., bridges on Federal Aid Projects 48, 179-D and E. H. C. Dietzer, Jackson, state highway engr.

Louisiana—Aug. 23, by State Hy. Comn., Baton Rouge, constructing Bayou Oise Bridge, on Gretna-Lafitte Highway at Lafitte Post Office, State Project 446-A, Jefferson Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Ohio—Aug. 19, by G. F. Schlesinger, dir. Highways and Public Wks., Columbus, constructing 13 concrete bridges on 8 projects in Allen, Ashland, Auglaize, Clermont. Fairfield, Hardin and Logan Counties; one steel bridge and approaches on Gallipolis-McArthur Rd., Sect. "Vinton," Gallia Co.; and constructing steel bridge (grade crossing), on Sect. A-3, Ohio River Rd., Belmont Co.

O., Cleveland—Aug. 13, by Comrs. Cuyahoga Co., concrete bridge over Ridge Rd. $36,276. F. Lander, Court House, engr.

Michigan — Aug. 18, by C. L. Cowgill, resident engr., Plymouth, 3 span Federal Aid Bridge X 1 of 47-6-1 Contr. 1, Livingston Co. Former bids rejected. Noted July 7.

Iowa — Aug. 19, by State Hy. Comn., Ames, one 24 x 32 ft. and one 40 x 20 ft. I-beam bridges, also 65 culverts in Benton Co., three 32 x 24 ft. deck girder bridges in Cerro Gordo Co., one 40 x 24 ft. skew I-beam bridge, one 50 x 20 ft. pony truss bridge, and one 130 x 20 ft. high truss bridge with two 32 ft. I-beam approaches, also 59 culverts in Decatur Co., one 34 x 26 ft. I-beam bridge in Tama Co., one 70 x 20 ft. pony truss bridge and 9 culverts in Washington Co., 39 culverts in Appanoose Co., 3 culverts in Lucas Co., 31 culverts in Mahaska Co., and 19 culverts in Sac Co. R. F. White, ch. highway engr.

Arkansas—Aug. 30, by State Hy. Comn., Little Rock, 4,200 lin.ft. rein.-con. trestles on Harahan Viaduct, Crittenden Co., Federal Aid Project 300-A, Unit 2. D. H. Blackwood, chn.; adv. E. N. R.

Washington—Aug. 23, by State Hy. Comn., Olympia, two 30 ft. and one 40 ft. rein.-con. T-beam spans, etc. over Swamp Creek on State Rd. 1, King Co.; and two 200 ft. riveted through steel spans, etc. over Yakima River on State Rd. 3, Yakima Co. S. J. Humes, state highway engr.

Bids Received

N. J., Bridgeboro—State Hy. Comn., Trenton, single leaf bascule span bridge, over Rancocas Creek, Route 2, Burlington Co., here from Eastern Eng. Co., 4 N.N. Carolina Ave., Atlantic City, $356,668. Noted July 21.

Pennsylvania—State Hy. Comn., Harrisburg, July 29, constructing Clymer Bridge on Route 262, Indiana Co., from D. A. and W. E. Clark, 117 Mary St., Johnsonburg $92,310; and Cromwell Twp. Bridge on Route 121, Huntingdon Co., from Concrete Steel Bridge Co., Clarksburg, W. Va. $39,061. Noted July 14 under "Streets and Roads."

South Dakota—State Hy. Comn., Pierre, July 26, **(F.A.P. means Federal Aid Project)**, constructing bridges on F.A.P. 173-E, Hand Co., from Diamond Engr. Co., Grand Island, Neb., $15,966; F.A.P. 207-B, Minnehaha Co., to Pioneer Bridge Co., Mitchell, $13,794; F.A.P. 208-C, Roberts Co., from A. Herreid, Summit, $2,748; F.A.P. 214-A, Marshall Co., to M. A. Stump, Mobridge, $16,967; F.A.P. 210, Hutchinson and Bon Homme Countie, from Willis Bonesteel, Gregory, $6,986; F.A.P. 195-B, Deuel Co. and F.A.P. 152, Codington Co., from Noonan-Hyde Co., Watertown, $2,507 and $13,160 respectively. Noted July 21 under "Streets and Road."

Missouri—State Hy. Comn., Jefferson City, July 29, from Pittsburgh-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., two 12 ft. rein.-con. slab spans, etc. over stream, Audrain Co., $4,044, from Kelly & Underwood, Granby, one 40 ft. and two 35 ft. rein.-con. deck girder spans, etc. on Sta. 590 plus 42, Audrain Co., $19,721, three 40 ft. and two 45 ft. rein.-con. deck girder spans, etc. over Spring River, $12,658, three 8 ft. and two 12 ft. rein-con. slab spans, etc. over stream, Lawrence Co., $6,123; from A. A. Davis & Co., Kansas City, three 40 ft. rein.-con. deck girder spans, etc. over Cape La Croix Creek, Cape Girardeau Co., $19,040; from Summerfield Jones Co., Billings, six 15 ft. timber spans, etc. over stream, Cape Girardeau Co., $6,412; from Service Constr. Co., Poplar Bluff, two 12 ft. rein.-con. slab spans, etc. over stream, Cape Girardeau Co., $4,617; from O. O. Fuller, Nevada, 40 ft. rein.-con. deck girder span, etc. over Little Petit Saline Creek, Cooper Co., $3,912; from J. J. Bailey, St. Louis, fourteen 20 ft. rein.-con. slab spans, etc. over overflow Little Chariton River, Chariton Co., $16,609, one 90 ft. steel truss, and two each 25 and 30 ft. rein.-con. deck girded spans, etc. over Little Charlton River, $18,223; from Knutsen Bros., Breckenridge, three 20 ft. rein.-con. slab span etc. over Shannon Branch, Chariton Co., $5,940; from Pope Constr. Co., Jefferson City, two 12 ft., rein.-con. slab spans, etc. over stream, Pike Co., $2,148; from Gaines Bros., Fairland, Okla., two 20 ft. rein.-con. slab and one 80 ft. steel truss spans, etc. over Branch Peno Creek, Pike Co., $14,031; and from J. P. Sparks, Kirkwood, three 30 ft. rein.-con. deck girder spans, etc. over Bobs Creek, Lincoln Co., $7,171. Noted July 29.

Calif., Vernon—Concrete arch bridge in Soto St., over Los Angeles River from Lynch-Cannon Eng. Co., Chapman Bldg., Los Angeles, $142,176. Noted Aug. 11. H. McCurdy, city engr.

Contracts Awarded

Vermont—State Bd. Highways, Montpelier, 98 ft. steel bridge and 0.6 mi. graveling approaches in Montpelier and Berlin, to Dee Grute Bros, North Bennington, $32,971.

New York—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, constructing Interlake Bridge between Reservoirs 2 and 3, of New Rochelle Water Co., on Hutchinson River Parkway, New Rochelle, town of Eastchester, Cont. 167. to Nicholas & Sagmani, Tuckahoe, $49,570. Noted July 28.

North Carolina—State Hy. Dept., Raleigh, rein.-con. bridge etc. on Projects 315, Brunswick Co. to J. S. Bowers, Whiteville, $33,612, on Project 4010, Chatham Co., to T. A. Loving & Co., Goldsboro, $29,910, and on Project 604, Alexander Co., to Carolina Co., Charlotte, $38,011. Grand total $91,533. Noted June 23.

Miss, Brookhaven—See "Streets and Roads."

Tenn., Chattanooga—Hamilton Co., rein.-con. bridge and approaches over Lookout Creek on State Aid Project 356-B, to Small & Triplett, Roberta, Ga., approximately $108,600.

Tenn., Memphis—City Comn. Aulon Viaduct, 2,300 ft. long, 36 ft. wide at Aulon, near here, to H. J. Gilbertson Constr. Co., Graham Bldg., Memphis, $220,365. Illinois Central R.R. Co., 135 East 11th Pl., A. F. Blaess, ch. engr., Louisville & Nashville R.R. Co., Louisville, W. H. Courtnay, ch. engr., Nashville, Chattanooga & St. Louis R.R. Co., Nashville, Tenn., H. McDonald, ch. engr. and Belt Ry. Co. of Chicago, Polk and Dearborn Sts., Chicago, Ill., E. H. Lee, pres. and ch. engr., will share cost. Noted Feb. 11.

Illinois—State Dept. Pub. Wks. & Buildings, Div Highways, Springfield, concrete substructure for steel bridge on Route 160, Sect. 132-B, Madison Co., to W. C. Johnson, Belleville, $8,315, 2 concrete sub-structures for steel spans with concrete approaches and concrete slab bridge on Route 160, Sect. 132-B, Madison Co., to Struble & Helmick, Alton $26,143, 3 steel superstructures for steel spans on Route 160, Sects. 132-C and 133-C, Madison Co., to Strupp Bros. Bridge & Iron Co., St. Louis, Mo. $36,980. 1 concrete slab bridge, 1 concrete box culvert, 2 concrete girder bridges, on

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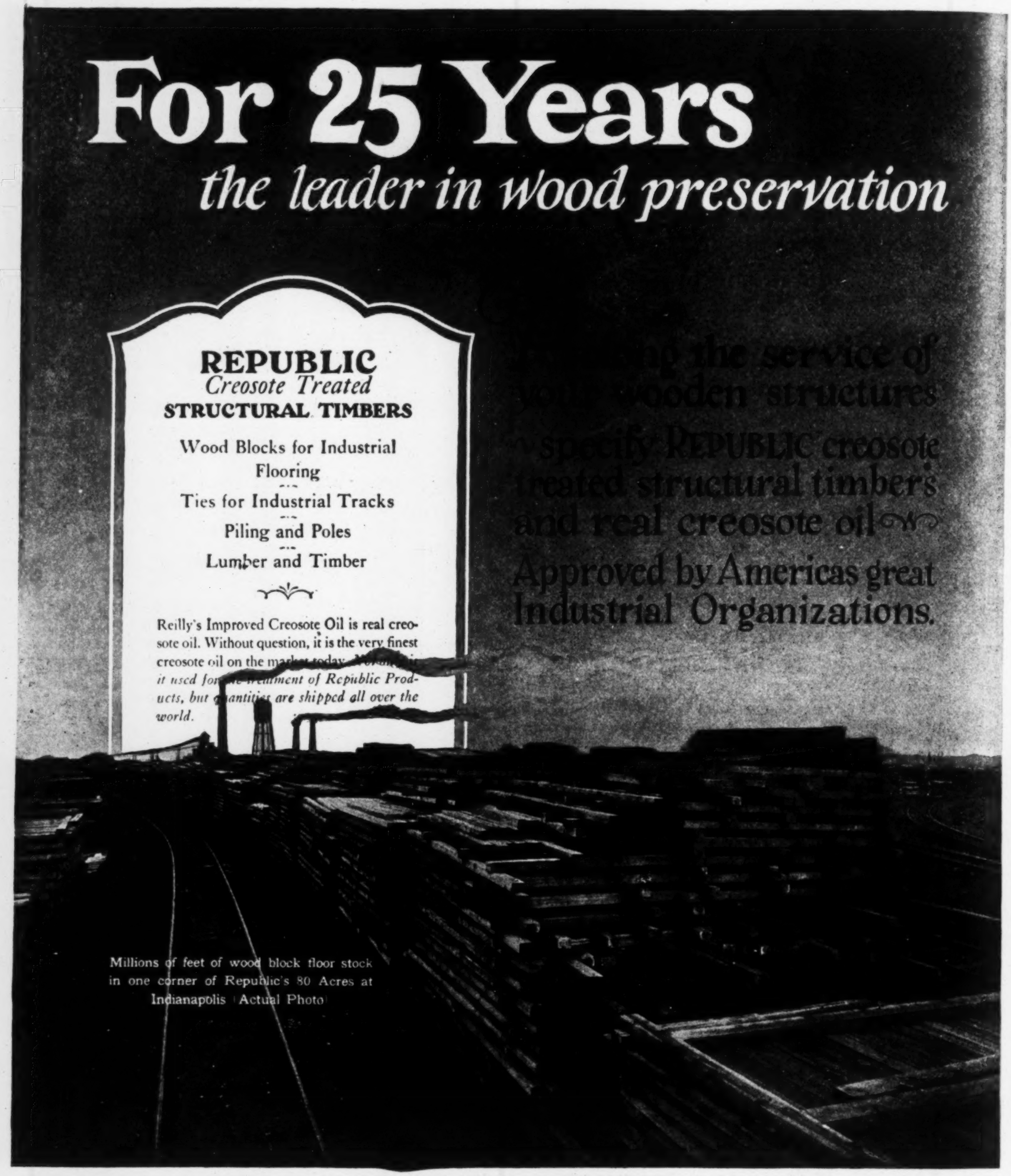

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OTHER PLANTS

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Bridges (Continued)

Route 130, Sect. 123-B, Richland Co., to V. O. Conner, Newton, $35,301, 3 concrete girder bridges and 1 concrete slab bridge on Route 121, Sect. 143-B, Piatt and Douglas Counties, to G. C. Fairclo, Champaign, $47,167 3 concrete girders and 1 concrete slab bridge on Route 121, Sect. 142-B, Moultrie and Piatt Counties, to Zimmerly Bridge Co., Paris, $23,716. Grand total $177,622.

Iowa—State Hy. Comn., Ames, one 20 x 120 ft. high truss bridge near Centerville, Project B-301, Appanooce Co., 31,880 lb. reinforcing, 131,700 lb. structural steel, etc., to Iowa Bridge Co., 1901 Easton Blvd., Des Moines, $19,250, 1 concrete arch bridge and 85 culverts on Dubuque-Dyersburg Rd., Project B-398, Dubuque Co., 109,630 lb. reinforcing, etc., to Pioneer Constr. Co., Newhall, $37,850, one 20 x 24 ft. slab bridge, one 24 x 24 ft. skew bridge and 5 culverts on Wallingford Rd., Project B-217, Emmet Co., 29,750 lb. reinforcing, etc., to C. J. Kramme, Ft. Dodge, $10,200, one 60 x 20 ft. pony truss bridge, one 32 x 24 ft. skew I-beam bridge and one 26 x 24 ft. I-beam bridge also 32 culverts near Newton, Project B-384, Jasper Co., 96,535 lb. reinforcing, 99,875 lb. structural steel, etc., to B. Cole, Ames, $36,166, one 50 x 20 ft. and one 85 x 20 ft. pony truss bridges, 2 slab bridge extensions, two 24 x 20 ft., one 24 x 24 ft., slab bridges, also 44 culverts and extensions and 2 flume outlets on U. S. Highway 61, Project B-394, Muscatine Co., to Lundgren-Reis Co., 65 College St., Des Moines, $60,724, two 20 x 24 ft. slab bridges, three 24 x 24 ft., and one 40 x 24 ft. I beam bridges, 24 x 24 ft. skew I-beam bridge, one combination 32 x 24 ft. and two 26 x 24 ft. I-beam spans, 8 culverts on Underwood-Neola Rd., Project B-231, Pottawatomie Co., 112,940 lb. reinforcing and 157,060 lb. structural steel, etc., to Wickham Bridge & Tile Co., 27 South 19th St., Council Bluffs, $41,200, one 120 x 20 ft. high truss bridge on Project B-401, Ringgold Co., to Zitteral-Swanson Co., Winterset, $21,230, two 32 x 20 ft. I-beam approaches and 25 culverts on same project, to Wilson Constr. Co., Red Oak, $15,560, one 16 x 18 ft. I-beam bridge on Project B-400, Sac Co., to M. Pluth, Earley, $3,575, 9 culverts on U. S. Highway 30, Project B-386, Benton Co., 12,765 lb. reinforcing, etc. to Schaaf & Jacobson, Lake Park, $3,380, 30 culverts and extensions on U. S. Highway 61, Project B-396, Lee Co., 43,195 lb. reinforcing, etc., Cameron-Joyce Co., Keokuk, $12,770, 20 culverts and extensions on Project B-402, Lucas Co., 34,315 lb. reinforcing, etc., to J. J. Groose, Winterset, $9,649, 30 culverts on Projects B-295 and B-404, Union Co., to Midwest Constr. Co., Des Moines, $17,194, raising and extending 1 wood trestle bridge near Fairfield, Project B-45, Jefferson Co., 21,560 lb. reinforcing, etc., to C. H. Kearns, Fairfield, $3,186. Grand total $291,934.

Minnesota—State Hy. Comn., St. Paul, to E. G. Bigham, 307 Main St., Winona, constructing bridges on Rushford-Whalen Rd., State Project 9-21-2, Fillmore Co. Bridges No. 4728 at $16,517; 4729, $10,945; 4730, $11,928; and 4731, $6,409. Grand total, $45,799. Noted July 21.

Montana—State Hy. Comn., Helena, (**F.A.P. means Federal Aid Project**) constructing steel bridge on F.A.P. 130-B, Prairie Co. to W. Mackin, Terry $7,358, Sun River Bridge on F.A.P. 218-B, Cascade Co., to McGuire & Blakeslee, Great Falls $57,795, and Bison Creek Bridge on F.A.P. 242-A, Jefferson Co., to J. R. Silver, Butte, Mont. $5,026; also timber bridge on F.A.P. 243-A, Richland Co., to A. E. Lyle & Co., Billings $2,473. Grand total $72,652.

Texas—State Hy. Dept., Austin, 125 ft. steel span girder bridge, etc. over White Rock Crook, Hy. 94, also one 106 ft. and one 159 ft. concrete girder bridge over Caney and Piney Creeks, to Thomas & Ratliff, Rogers, $31,450 and $19,122 respectively. Noted July 14.

Tex., Abilene—Taylor Co. several rein.-con. bridges over 20 ft. span, on State Highway 1, to Sullivan & Davis, Granger, $51,633. Engrs. est. $55,000.

Tex., Falfurrias—See "Streets and Roads."

Tex., Panhandle—See "Streets and Roads."

Tex., Wharton—See "Streets and Roads."

Oklahoma—State Hy. Dept., Oklahoma City (**e.e. means engineers estimate**), 1 span steel truss bridge on concrete piers at Crowder, Pittsburgh Co., 119 tons steel truss, 1,447 ft. wooden piling, etc., to Gaines, Yokum & Mackey, 519 West Main St., Oklahoma City, $65,581, e.e. $70,000, three 46 ft. spans I-beam bridge, at Christie, Adair Co., 10.84 tons reinforcing, 24 84 tons I-beams, 222 ft. hand rail, etc., to E. Cady, Madill, $11,582, e.e. $16,500, 1 span 108 ft. steel truss bridge on concrete piers at Apache, Comanche Co., 114.5 tons truss steel, 41.66 tons reinforcing, etc., to Southwestern Bridge Co., Lawton, $45,470, e.e. $50,000, 2 span 260 ft. steel truss bridge on concrete piers at Stratford, Garvin Co., 338.64 tons, truss steel, 57.97 tons reinforcing, etc., to Boardman & Co., Exchange Ave., Oklahoma City, $97,446, e.e. $110,000, 1 span steel truss bridge on concrete piers at Kanima, Haskell Co., 385,610 lb. truss steel, 90,380 lb. reinforcing, etc., to Woodward Constr. Co., Woodward, $63,453, e.e. $75,000, 25 span 1,908 ft. I-beam and trusses on piers at Headrick, Jackson Co., 802.94 tons truss steel, 117.57 tons reinforcing, 1,450 ft. wooden piling, etc., to Western Constr. Co., 1st Natl. Bank Bldg., $216,633, e.e. $245,000, 3 span 120 ft. I-beam bridge at Ringwood, Major Co., 31.95 tons I-beam, 10.92 tons reinforcing, 800 ft. wooden piling, etc., to Roberts & Fisher Norman, $12,547, e.e. $20,000, 1 span 106 ft. steel truss bridge on piers at Sumner, Noble Co., 57.56 tons truss steel, 14.65 tons reinforcing, to M. A. Swatek, 519 West Main St., Oklahoma City, $29,289, e.e. $35,000. Grand total $542,001. Noted July 21.

Calif., Orick—State Hy. Dept., Sacramento, steel bridge over Redwood Creek near here to Mercer-Fraser Co., Eureka, $92,059. Noted Aug. 4.

Calif., Riverside—Riverside Co., steel bridge over Santa Ana River on Corona to Chino Highway, to E. G. Perham, 4711 Willowbrook Ave., Los Angeles, $67,700; also 300 ft. steel and concrete bridge over San Jacinto River at Gilmon Springs to C. P. Hancock, 1330 Lemon St., Riverside. $37,765. Noted Aug. 4 and July 9.

Dams

Proposed Work

Calif., Los Angeles—Supervs., Los Angeles Co., Flood Control Dist., rejected bids furnishing concrete aggregates for San Gabriel Dam. Noted July 28.

Bids Desired

Wash., Seattle—Sept. 9, by Bd. Pub. Wks., County-City Bldg., constructing concrete arch Diablo Dam on Skagit River, Whatcom Co.; adv. E. N.-R. Aug. 11.

Contracts Awarded

Kan., Meade—Forestry, Fish & Game Comn., J. B. Doze, secy., Pratt, dam at lake site on Turkey Tract Ranch near here for state fish hatchery to L. W. Rexroad, Salina. $38,788.

Arkansas—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Railways

Proposed Work

Georgia—Seaboard Air Line R.R., W. D. Faucette, ch. engr., Savannah, plans railroad from Albany to Moultrie and Quitman. T. L. Bean, Citizens & Savings Bank Bldg., Albany, dist. engr.

Missouri—Kansas City, Mexico & Orient R.R. Co., W. L. Churchill, ch. engr., Wichita, Kan., making plans extending and generally improving system, incl. buildings, station, etc. $7,000,000

Texas—Waco, Beaumont, Trinity & Sabine R.R. Co., R. C. Duff, pres., Houston, plans 190 mi. line from Livingston to Port Arthur, with belt line from Bragg to Saratoga, and from Weldon to Mart.

Bids Desired

Mass., Boston—Aug. 30, by Transit Dept., 1 Beacon St., constructing two track surface railway extension, Sect. 4 of Dorchester Rapid Transit R.R. A. D. Adair, acting secy.; adv. E. N.-R. Aug. 11.

Contracts Awarded

Calif., Barstow—Atchison, Topeka and Santa Fe Ry., H. W. Wagner, ch. engr., Topeka, Kan., constructing new main double-tracked passenger line through yards and reconstructing and raising portions of yards, incl. approximately 250,000 cu.yd. excav., here, to Marsh Bros., & Gardenier, Monadnock Bldg., San Francisco.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Ark., North Little Rock—Woodson Levee Dist., c/o C. H. Wilson, 519 East Arkansas Ave., soon takes bids repairing approximately 57 breaks in Woodson Levee. $15,000.

Tex., Brownsville—Cameron Co. Water Control Dist. 7, El Jardin, voted $175,000 bonds enlarging and improving irrigation system. W. O. Washington, Brownsville, co. engr.

Tex., Brownsville—Voted $150,000 bonds drainage improvements at Los Fresnos, incl. flume over Ranchio Viejo Resaca and other improvements. C. A. Hobbs, Brownsville, engr.

Tex., Los Fresnos—Cameron Co. Water Control & Impvt. Dist. 6, D. Gilley, dir., making plans drains and laterals, etc. $66,000. C. A. Hobbs, Brownsville, engr.

Tex., Point Isabel—James & Dickenson, Brownsville, making plans and soon takes bids ship channel, $40,000. Private plans.

Colorado—Missouri Pacific R.R. Co., c/o E. H. Wheeler, Railway Exchange, St. Louis, Mo., or P. E. Watson, 100 South Union Ave., Pueblo, Colo., plans irrigating 58,000 acres in Arkansas Valley between Olney Springs and Sugar City, Colo., E. A. Hatley, St. Louis, ch. engr.

Calif., Vina—Deer Creek Irrigation Dist., soon takes bids, diversion dam, canal system, etc., incl. 12,784 cu.yd. earth excavation, etc. J. B. Thompson, Chico, engr.

Bids Desired

N. Y., Syracuse—Aug. 15, by Bd. Contract & Supply, City Hall, cleaning channel and constructing rein.-con. cover over Harbor Brook from Richmond Ave. to State Fair Blvd.

Va., Richmond—Aug. 15, by Dept. Pub. Wks., new city wharf, incl. 300 ft. rein.-con. wall. $100,000.

Bids Received

N. Y., New York—M. Cosgrove, comr. Docks, Pier "A", Battery Pl., Aug. 4; bulkhead wall, at East 17th St. and East River, from General Contg. & Eng. Co., 40 Rector St., $15,090. Noted July 28.

Contracts Awarded

Conn., Hartford—Bd. Contract & Supply, B. Lyon, secy., retaining wall on Myrtle St. extension from Church to Spring Sts., to R. E. Cronsell, 7 Mozart St., West Hartford. $25,339. Engrs. est. $25,000. Noted July 31.

Miss., Alligator—Gum Pond D. D. 8 mi. drainage canal, near here, to C. B. Vaughan, Clarksdale, approximately $18,000.

Ind., Indianapolis—Dredging and widening White River from Morris to Raymond Sts., 65 ft. levee, 30 ft. roadway, to C. E. Jefferson, 100 Beckley Road, $497,390. Engrs. est. $700,640.

Mo., Glendale (mail Kirkwood)—See "Buildings Commercial."

Arkansas—Farcelly Lake Levee Dist. Gillett, floodgates and dam across Bayou Mets in Jefferson Co., to McWilliams Co. Inc., Exch. Bldg., Memphis, Tenn., $284,000.

Ark., Blytheville—Mississippi Co., repairing levee on east side of Big Lake and along Arkansas-Missouri state line, incl. 102,697 earthworth, to W. E. Callahan Constr. Co., Arcade Bldg., St. Louis, Mo. Approximately $32,000.

Ark., Lewisville—Red River Levee Dist. 1, c/o R. V. Hall, 425 State Bank Bldg., Texarkana, extending levee 68,000 sq.yd. from Sta. C to Sta. 126 and constructing levee 98,000 sq.yd. from Sta. 126 to 176, to George Brothers, Texarkana, $35,950.

Tex., San Antonio—see "Unclassified."

Calif., La Mesa—La Mesa, Lemon Grove & Spring Valley Irrigation Dist., 4,230 ft. 6- and 14-in. c.i. pipe, fiittings, gate valves, etc., to United States Cast Iron Pipe & Foundry Co., Wright-Callender Bldg., Los Angeles, $10,854. Noted June 30.

Calif., Los Angeles—Constructing diversion and apputernant works for Puddingstone channel to A. O. Nelson, 136 North Huntington Drive, Pasadena, $85,745.

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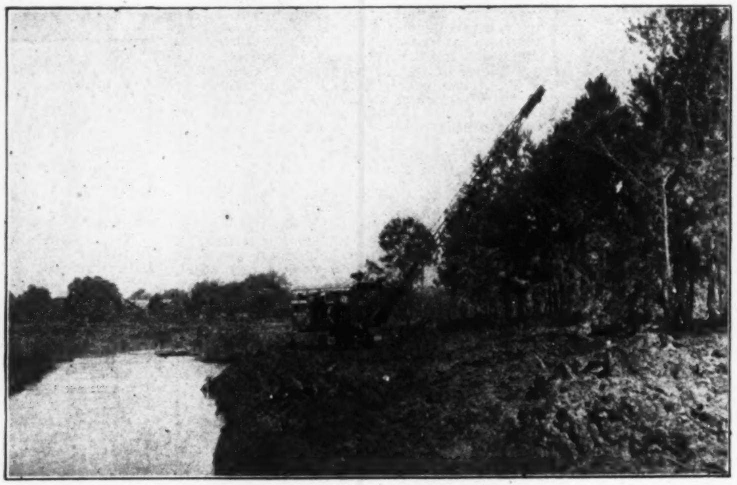

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New York City
50 Church St.

Philadelphia, Pa.
Packard Building

Pittsburgh, Pennsylvania
Federal Reserve Building

San Francisco, Calif.
Monadnock Building

St. Louis, Mo.
Railway Exchange Bldg.

Streets and Roads

Proposed Work

R. I., Providence—Plans reconstructing and improving Academy Ave. 5th, 4th and Holly Sts. $25,000. Private plans.

N. J., Trenton—Mercer Co. Freeholders, plan concrete paving 3 mi. Pennington-Hopewell Rd. $125,000. H. F. Harris, Trenton, co. engr.

Ga., Waycross—Making plans paving 19 blocks various streets. To exceed $25,000.

Tenn., Cleveland—Voted $35,000 bonds, improving various streets. Long & Co., 1300 Colcord Bldg., Oklahoma City, Okla., engrs.

Tenn., Crossville—Cumberland Co. voted $40,000 bonds, completing Crossville-Cooksville Rd.

Tenn., Granfield—Voted $100,000 bonds for streets and sewers.

Tenn., Huntsville—Scott Co. and State Dept. Highways & Pub. Wks., Nashville, takes bids about Sept. 15, grading, bridging, etc. 15 mi. Huntsville-Pioneer Rd. $150,000.

O., Canton—Bd. Control plans widening and paving, etc. Navarr Rd. S.W. $40,000. W. E. Sarver, City Hall, engr.

O., Hinckley (br. Medina)—Cleveland Metropolitan Park Bd. plans grading, etc. various streets. $60,000. W. A. Stinchcomb, West 3rd St. and Franklin Ave., engr.

Ill., Alton—Soon takes bids grading, curbing, guttering and 7 in. rein.-con. paving 8,554 sq.yd. 13th, 14th, Alton, Marilla and Langdon Sts. $38,262. J. E. Schwaab, City Hall, engr.

Wis., Madison—City Council, W. R. Winckler, clk., making plans improving streets. $155,000. E. E. Parker, City Hall, engr.

Ia., Council Bluffs—Pottawatomie Co. voted $1,600,000 bonds, improving roads.

Ia., Manchester — Delaware Co. voted $850,000 bonds, 24 mi. concrete and 14 mi. gravel surfacing. H. Klaus, Manchester, co. engr.

Ia., Mt. Pleasant—Henry Co. voted $900,000 bonds, concrete paving 40 mi. and graveling 10 mi. various roads. C. E. Smith, Mt. Pleasant, co. engr.

Ia., Sidney—Fremont Co. voted $600,000 bonds, concrete paving 10 mi. roads. J. L. McGraul, Sidney, co. engr.

Ia., Sigourney—Keokuk Co. voted $1,300,000 bonds, grading, bridging and graveling balance primary road system. R. C. Fye, Sigourney, co. engr.

Ia., West Union—Fayette Co. voted $1,200,000 bonds, grading, bridging, paving, etc. 32.5 mi. Primary Road 11. A. D. Finch, West Union, co. engr.

Minn., St. Paul—Plans paving Dayton Ave. between Lexington and Hamline Aves. $34,897. G. M. Shepard, City Hall, engr.

Kan., Seneca—Nemaha Co., soon takes bids, grading, etc., and two 30 ft. I-beam spans and one 60 ft. truss span bridge, on 9.129 mi. Federal Aid Project 319-C, 30 ft. L. P. Price, Court House, engr. Noted June 30.

Kan., Wellington—Summer Co., making plans and soon takes bids grading, etc. 13.93 mi. Federal Aid Project 386-A on U. S. Road 166, 30 ft. J. W. Mavity Court House, engr.

Mont, Butte—City, c/o W. G. Maloney, clk., making plans grading, concrete, asphaltic concrete, or bitulithic concrete on crushed rock paving, etc. Special Street Impvt. Project 343. $36,900—$43,025. Address City Engineer.

Mo., Dearborn—Voted $50,000 bonds, grading, paving, etc. 3.25 mi. various streets.

Mo., St. Joseph—Soon takes bids grading and asphalt or concrete paving, etc. approximately 50,000 sq.yd. Northeast and Northwest Extensions to Parkway Blvd. W. M. Spann, City Hall, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making plans alternate types paving, etc. portions Russell Pl., Era, Clemens, Bayard and Goode Aves., DeBaliviere, Maryland Pendlet. ., 8th, 10th, McDonald, San Francisco, Lilian and Potomac Sts. W. W. Horner, 300 City Hall, engr.

Ark., Harrison—Making plans and soon takes bids grading, curbing and concrete paving, etc., 14 blocks various streets. A. C. Moore, Joplin National Bank Bldg., Joplin, Mo., engr.

Tex., Anahuac—Chambers Co. voted $100,000 bonds grading, bridging and surfacing roads in Precinct 4. Address L. R. Miller, Anahuac, co. judge.

Tex., Archer City—Archer Co. making plans grading and bridging 16.18 mi. Highway 79, $92,755. G. R. Johnson, Archer City, engr.

Tex., Athens — Henderson Co. making plans grading, bridging and asphalt topping on rein.-con. paving 40 mi. Highway 40, $1,400,000. Engineer not selected.

Tex., Beaumont—See "Unclassified."

Tex., Brownsville—Cameron Co. making plans concrete paving 24.5 mi. Highway 100, 18 ft. $700,000. W. O. Washington, Brownsville, engr.

Tex., Ft. Stockton—City Comn. takes bids about Aug. 15, permanent paving 30 blocks various streets. $60,000. Address mayor.

Tex., Groesbeck—Limestone Co. making plans rein.-con. or concrete base with asphalt topping paving 7.5 mi. Highway 14, 18 ft. $215,000. Nagle-Witt-Rollins-Gilchrist, Dallas, engr.

Tex., Henrietta—Clay Co. making plans gravel and asphalt paving 10 mi. Highway 25. $35,402. W. E. Cornett, Henrietta, engr.

Tex., Lefors—Voted $250,000 bonds roads in Precinct 4. Address T. M. Wolfe, Lefors co. judge.

Tex., Lockhart—Caldwell Co. voted $49,000 bonds grading, surfacing, etc. roads in Precinct 7 and County Precinct 5. Address M. U. Smith, Lockhart, co. judge.

Tex., Point Isabel—James & Dickenson, making preliminary plans graveling and asphalt paving 4 mi. main streets. $100,000. Private plans.

Tex., Raymondville—Willacy Co. making plans concrete paving 8 mi. Highway 96, 18 ft. $280,000. J. E. Johnson, Raymondville, engr.

Tex., Sherman—Grayson Co. voted $2,500,000 bonds constructing highways and lateral roads. Address R. M. Carter, Sherman, co. judge.

Oklahoma—State Hy. Dept., Oklahoma City, making surveys grading 12 mi. State Road 51, 30 ft. $65,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Okla., Jackson—Jackson Co. voted $600,000 bonds, improving primary road system. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Okla., Waureka — Jefferson Co. voted $600,000 bonds, primary road system. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Calif., Glendale—Made plans concrete curbing, water mains, etc., Roads End and Madison Way, etc. To exceed $25,000. A. J. Van Wie, city clerk.

Calif., Hawthorne—City plans curbing, guttering, sewers and asphaltic concrete paving, etc., in Wilbur Ave. To exceed $25,000.

Calif., Hawthorne—Plans curbing, guttering, sewers, asphaltic concrete paving Maryland Ave. To exceed $25,000.

Calif., Hermosa Beach—City plans paving, etc. Hermosa Ave. between north and south city limits. Los Angeles Co. (Los Angeles) appropriates $40,000 toward cost. M. M. Murray, city engr.

Calif., Los Angeles—Plans asphaltic concrete paving, sewers, street lighting system, etc., in 3rd St., between Fairfax Ave. and La Cienega Blvd. To exceed $25,000.

Calif., Los Angeles—Made plans concrete and oil macadam paving Colorado St., Co. Imp. 609. To exceed $27,500.

Calif., Oakland—Making plans concrete curbing, guttering. and macadam paving streets in High Street Terrace. To exceed $25,000. G. N. Randle, city engr.

Calif., Oroville—Butte Co. plans new roads in various sections. $60,000. H. H. Hume, Oroville, co. surv.

Calif., Redwood City—San Mateo Co. making surveys new road from summit Alpine grade to Alpine school and point 3 mi. south therefrom. To exceed $25,000. G. A. Knees , Redwood City, co. surv.

Calif., San Fernando—Plans curbing, walks and concrete paving, etc. Griffith St., etc. To exceed $25,000.

Calif., San Francisco — Making plans paving, curbing, etc., San Jose Ave. near Balboa Park. $30,000. M. M. O'Shaughnessy, city engr.

Ont., Brampton—Pell Co. plans asphalt, asphaltic concrete or bitulithic paving 3.5 mi. road from Toronto-Hamilton-Lake Shore Hy. to Dundas Rd. $70,000. N. L. Powell, Court House, engr.

Ont., Campbellford — Plans macadam, concrete or bitulithic paving 2 mi. main streets, 20 ft. $50,000. Engineer not selected.

Ont., Ford City—Plans grading, curbing, guttering and concrete or asphalt on concrete paving approximately 4 mi. various streets, 24 ft. $410,000. H. W. Patterson, Walkerville, engr.

Ont., Ottawa — City Council, making plans, asphalt on concrete paving Metcalfe St. and MacKenzie Ave., $6,644 and $27,474 respectively; concrete sidewalks York St. $1,617. Grand total $35,735. A. F. Macallumm, City Hall, engr.

Ont., Toronto—Plans asphalt on concrete paving Ancroft Pl., Hook, Cypress, Doel Aves., $20,499; asphalt paving Bloor St. and Boon Ave., $2,442; opening lane east of Logan Ave. and west of Shaw St., $2,500 and $9,200 respectively. R. C. Harris, City Hall, engr.

Ont., Toronto—York Twp. making plans asphalt on concrete paving 5,000 sq.yd. Rosethorn and Jillson Aves. $25,000. F. B. Goedike, 40 Jarvis St., engr.

Ont., Windsor—Council plans curbing, etc. Field Ave.; and concrete paving Janette Ave. and Tecumseh Rd. $100,000. A. Brian, City Hall, engr.

Bids Desired

Maine—Aug. 16, by State Hy. Comn., Austin, graveling 2.94 mi. Highway in Anson, and 0.85 mi. in Gouldsboro; also bituminous macadam paving 2.71 mi. in Mechanic Falls and Poland.

Mass., Lowell—Aug. 16, by City, City Hall, sheet asphalt resurfacing approximately 13,500 sq.yd. various streets. H. P. Doherty, supt. streets.

Mass., Marblehead—Aug. 17, by Town, R. Tutt, clk., Town Hall, grading, etc., Prince St. $25,000. Private plans.

Connecticut—Aug. 15, by J. A. Macdonald, hy. comr., Hartford, rein.-con. paving in West Haven, Windsor, Stonington, Suffield and Fairfield; waterbound macadam paving in New Milford and Sherman, and Woodbury; asphalt paving in Hartford and West Hartford; bituminous macadam paving in Enfield, South Windsor, Mansfield, Wellington and Ashford and Eastford; bridges in Fairfield, Woodbury, Hartland, Guilford and Madison; adv. E. N.-R. Aug. 11.

New York—Aug. 22, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading and bituminous concrete, amiesite, or asphalt block on concrete paving 4,200 ft. Cross County Pkwy., Rye; Contr. 151; also foundations for bascule bridge and approach spans across New Rochelle Creek, between Glen Island and mainland, New Rochelle. Contr. 169 J. Downer, ch. engr.; adv. E. N.-R. Aug. 11.

New York—Aug. 26, by A. W. Brandt, comr. Highways, Albany, constructing highways in Delaware, Orange, Oswego, Otsego, Schoharie, Washington, Clinton, and Monroe Counties, etc.; adv. E. N.-R. Aug. 11.

Maryland—Aug. 23, by State Hy. Comn., Baltimore, graveling 1.45 mi. Contr. SM-39, St. Marys Co.; concrete shoulders on 2.6 mi. Contr. M-84, 1 mi. Contr. M-79, and 1.5 mi. Contr. M-83, all Montgomery Co.; and concrete paving 1 mi. Contr. M-58, Montgomery Co., 1 mi. Contr. H-51, Harford Co., and 1 mi. Contr. AA-53, Anne Arundel Co. J. N. Mackall, Garrett Bldg., comr.; adv. E. N.-R. Aug. 11.

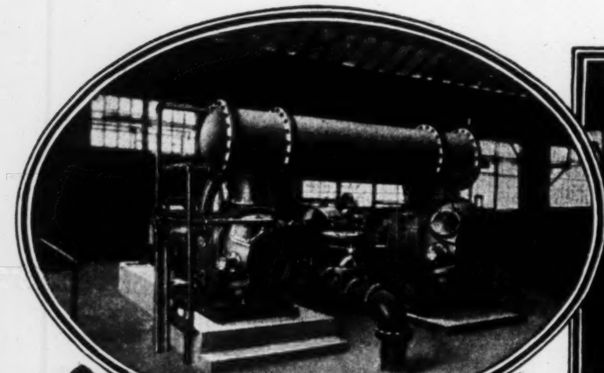
Md., Baltimore — Aug. 17, by Bd. of Awards, concrete paving 29,800 sq.yd. streets per Contrs. 424 and 425. Steuart Purcell, City Hall, engr.

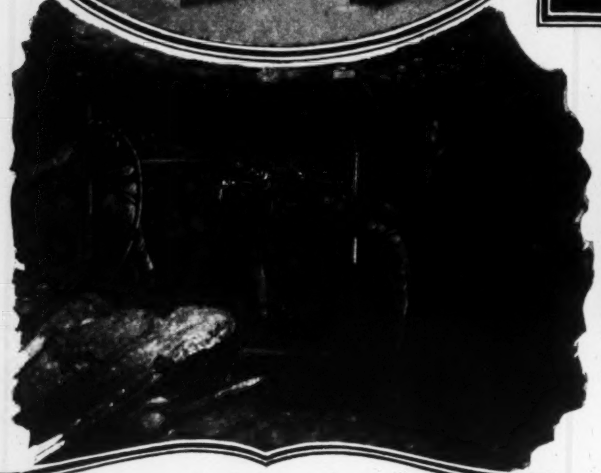
West Virginia—Aug. 16, by State Road Comn., Charleston, grading, brick and gravel surfacing, etc. 40.3 mi. roads in Fayette, Mason, Mingo, Hancock, Marshall and Roane Counties. E. B. Carskadon, secy.

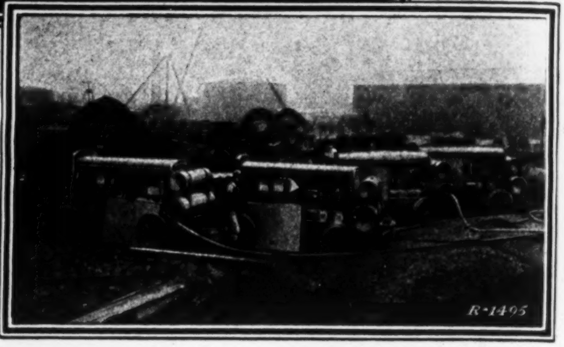
West Virginia—Aug. 23, by State Road Comn., Charleston, grading, gravel, stone, slag, tar surface, or concrete surfacing, 83.51 mi. roads in Nicholas, Wayne. Mingo, Logan, Mason, Mercer, Wyoming, Brooke, and Calhoun Counties, also concrete, circular arch culvert in Brooks Co. E. B. Carskadon, secy.

North Carolina—Aug. 23, by State Hy. Comn., Raleigh, grading, top soiling, concrete or asphalt paving, etc. 59.77 mi. 8 projects in Polk, Allegheny, Gaston, Catawba, Davidson, Sampson, Craven and Perquimaus Counties. $932,200. L. R. Ames, Raleigh, highway ebtr.

South Carolina—Aug. 16, by State Hy. Dept., Columbia, cement concrete paving 8.2 mi. Route 3, Federal Aid Proect 210, Richland Co., and 12.3 mi. Route 161, Project 511, same county, 11.5 mi. Route 50,







Ingersoll-Rand compressors, drills, and blacksmith equipment. These machines and others of similar type are used by Patrick McGovern, Inc., New York subway builders.

Patrick McGovern, Inc.

Patrick McGovern, Inc., has been awarded Sections 1, 2 and 3, Route 104, of New York City's subway extension work. These sections, which together reach from 8th Avenue to Long Island City, were awarded on net bids aggregating over $20,000,000.

Below are listed some other noteworthy contracts on which the McGovern organization has been active in the past:

1912—Lexington Ave. Subway, New York City.
1913—New York State Barge Canal.
1915—Ft. Point Channel Tunnels (Boston,, Mass.).
1915—60th St. Tunnels, New York City.
1918—14th St. Subway, New York City.
1919—Jersey City, N. J., Pipe Line.
1921—Jamaica Bay, N. Y., Causeway.
1923—Brooklyn Shaft, Narrows Tunnel, New York City.
1923—Staten Island Shaft, Narrows Tunnel, New York City.
1924—Contract 106, Broad St. Subway, Philadelphia.
1925—Contracts 107-A and B, Broad St. Subway, Philadelphia.

The McGovern contracts on these 11 jobs alone totaled over $50,000,000.

PERSONNEL OF THE COMPANY—Patrick McGovern, Pres. and Treas.; E. D. Hubbard, Vice-Pres.; M. G. Ruisseau, Asst. Treas.; M. B. Boyce, Sec.; John S. MacDonald, Chief Eng.; Chas. Harrington, Construction Eng.; Patrick Porter, Supt.; Chas. Kelley, Master Mech.

(This is the twentieth of a series on the New York subway contractors.)

How New York City is Building Its New Subway System

For over fifty years Ingersoll-Rand has been a pioneer in the manufacture of compressed air equipment. Half a century of leadership in its field has won the continued patronage of the country's foremost contractors. And now, in 1927, with work well under way on the new subway system, New York contractors have again selected I-R products for their many jobs requiring the use of air-operated equipment.

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47-R.D.M.

Ingersoll-Rand

Streets and Roads (Continued)

Project 266-A, Kershaw Co.; sheet asphalt paving 17.5 mi. Route 12, 25-B, reopened, Contr. 2, 25-A, reopened and 141-C, revised, Lexington Co., 10.5 mi. Route 12, Project 255 and 25-B, same Co.; grading, 10.7 mi. Route 20, Project 655-A, 11.3 mi. Route 21, Project 254-B, and 2.9 mi. Route 2, Project 259-A, all foregoing in Greenville Co., 6.4 mi. Route 301, Project 659-A, and 12.5 mi. Route 301, Project 659-B, Colleton Co.; sand clay paving 3.1 mi. Route 52, Project 558, Calhoun Co.; concrete bridge over Ireland, Route 30, Project 179, Colleton and Dorchester Counties, and concrete bridge over Edisto River, Route 30 and 6, Project 557, Colleton Co., and cncrete and steel bridge over Tiger River, Route 7, Project 235-F, Union Co. B. Sawyer, Columbia, comr.

Louisiana—Aug. 23, by State Hy. Comn., Baton Rouge, grading and graveling 3.39 mi. Anacoco-Texas Highway, State Project 568-A, Vernon Parish. N. W. Bowden, highway engr.

Ohio—Aug. 19, by G. F. Schlesinger, dir. Highways & Public Wks.. Columbus, grading, etc. 5.617 mi. roads in Washington, Jefferson, Morgan and Monroe Counties; brick paving approximately 28.032 mi. and concrete paving, etc. approximately 22.091 mi. of 45 projects in 29 counties.

O., Columbus—Aug. 16, by W. H. Duffy, dir. Pub. Serv., brick or asphalt paving, etc. 17,615 sq.yd. 24th, Bride, Boella, Cordella, Queen and 6th Ave. R. H. Simpson, city engr.

O., Steubenville—Aug. 19, by Comrs. Jefferson Co., Court House, slag surfacing, etc. 9.25 mi. seven roads, $28,000. V. N. Penn, engr.

Michigan—Aug. 16, by C. L. Cowgill, resident engr., Plymouth, concrete paving 1.296 mi. Mo 63-13 Contr. 1, and 5.193 mi. FC-63-21 Contr. 1, both Oakland Co. Noted Aug. 4.

Michigan—Aug. 18 by G. H. Greene, resident engr. Fletcher Bldg., Alpena graveling 7.034 mi. Mo 68-8 Contr. 3, Oscoda Co. Noted Aug. 4.

Michigan — Aug. 18, by C. H. Brown, resident engr., 14380 Wyoming Ave., Detroit, concrete paving 6.105 mi. A. D. 481 Sec. A, Macomb Co.

Michigan—Aug. 19, by G. H. Greene, resident engr., Alpena, graveling 5.070 mi. Mo 65-9 Contr. 1, Ogemaw Co. Noted Aug. 4.

Wisconsin—Aug. 17, by State Hy. Comn. and T. B. Olsen, clk. Shorewood, at Div. Office 2, Stephenson Bldg., Milwaukee, grading, concrete surfacing, etc., 6,130 sq. yd. Federal Aid Project 349-G; and 25,530 sq.yd. County Line-Waukesha Rd., Federal Aid Project 268-B, Waukesha Co. H. V. Veoom, div. engr.

Iowa — Aug. 19, by State Hy. Comn., Ames, paving 50 mi. roads in Chickasaw, Bremer, Winneshiek and Pottawatomie Counties; grading 69.8 mi. roads in Clinton, Washington, Lucas, Decatur Sac, Benton, Appanoose, Maheska and Pottawatomie Counties; graveling 227 mi. in Palo Alto, Wright, Jones and Cedar Counties; bridge fill, etc., in Mitchell Co.; guard rail in Mitchell, Howard, Palo Alto and Allamakee Counties. R. F. White, ch. highway engr.

Ia., Adel — Aug. 15, at office Auditor Dallas Co., graveling 9.39 mi. Secondary Projects 66, 70 and 73. E. L. Kaser, Adel, co. engr.

Ia., Dubuque — Aug. 15, by Auditor Dubuque Co., improving Worthington-Dyersville Rd. and Dubuque-Lore Rd. incl. 35,500 cu.yd. earth, 5,000 cu.yd. loose rock and 4,415 cu.yd. solid rock excav. G. A. Blunt, Dubuque, co. engr. Noted June 23.

Ia., Spirit Lake—Aug. 19, at office Auditor Dickinson Co., graveling 26 mi. road. R. A. Furman, Spirit Lake, co. engr.

Minn., Minneapolis—Aug. 16, by A. P. Erickson, aud. Hennepin Co., 7.21 mi. concrete and 1.3 mi. asphaltic concrete paving Forest Lake Cut-off. $291,000. E. E. Terrell, Court House, co. engr.

Kan., Ft. Scott—Aug. 15 at office Clerk, Bourbon Co., Ft. Scott, furnishing and applying 30,800 gal. bitumen surfacing various roads.

Kan., Ottawa—Aug. 26, by Clerk Franklin Co., grading, and concrete or brick paving 4.794 mi. Federal Aid Project 280 Sections A and C, U. S. Road 73 W., 18 ft. E. F. Loveless, Court House, Ottawa, engr.

Neb., Litchfield—Aug. 19, by M. F. Snavety, city clk., grading and alternate types paving, etc. $6,000 yd. various streets. To exceed $25,000. Henningson Engr. Co., Natl. Bank Bldg., Omaha engr.

Mo., St. Louis—Aug. 23, by Bd. Pub. Serv., 208 City Hall, rein.-con. paving Kingshighway Blvd. through Penrose Park, south of viaduct and waterbound macadam paving north of viaduct, $18,480; rein.-con. paving approximately 3,800 sq.yd. Kingshighway Northwest, $11,720; also grading, concrete paving, etc. approximately 15,000 sq.yd. Alleys in City Blocks 1106, 2823, 3602, 3655, 4016, 4050, 4713, 5414, 5831, 5873, and 5901. $40,360. W. W. Horner, City Hall, engr. Noted Aug. 4.

Mo., St. Louis—Sept. 6, by Bd. Pub. Serv., 208 City Hall, concrete paving 2,650 sq.yd. Morganford Rd. $13,920; warrenite bitulithic paving 4,660 sq.yd. Kansas St., $29,600; rein.-con. paving 5,185 sq.yd. Dale St. $29,720; asphalt paving 6,535 sq.yd. Dale St., $40,400; and granite block paving 1,685 sq.yd. St. Charles St. $13,720. W. W. Horner, 300 City Hall, engr.

Ark., Arkadelphia—Taking bids, grading curbing and concrete paving 70 blocks Street Improvement Dist. 4. Noted Mar. 25, 1926. F. A. Gerig, Arkadelphia, engr.

Tex., Amarillo—Aug. 21, by S. B. Motlow, jude Potter Co., curbing, guttering and gravel surfacing 13½ blocks west half of Western Ave. from State Hy. 13, to point 8.6 mi. north. R. W. Ryder, Amarillo, engr.

Nevada—Aug. 17, by State Hy. Comn., Carson City, grading, graveling, etc., 18,200 cu.yd. Federal Aid Project 14, Douglas and Ormsby Counties. S. C. Durke, highway engr.

Washington—Aug. 23, by State Hy. Comn., Olympia, grading, etc. 5.5 mi. State Rd. 9, Grays Harbor and Jefferson Counties, 1.7 mi. State Rd. 2, Lincoln Co., 3.7 mi. State Rd 8, Skamania Co.; crushed rock surfacing, etc. 5,150 cu.yd. State Rd. 2, Douglas Co., 5,600 cu.yd. State Rd. 7, Grant Co. S. J. Humes, state highway engr.

Calif., Merced—P. J. Thornton, clk. Merced Co., taking bids concrete paving 3 mi. Merced-Snelling-Merced Falls Rd., Sect. 4. W. E. Bedesen, co. surveyor.

Contracts Awarded

Vt., Johnston—State Hy. Dept., Montpelier, one course concrete paving, etc., 1,675 ft. highway, here, to Adams & Desmore, Claremont, N. H., $16,987. Noted July 14.

Massachusetts—Dept. Pub. Wks., Boston, bituminous concrete type C paving 2,476 ft. highway in West Bridgewater, to M. F. Roach & Sons Inc., 35 Spring St., East Bridgewater, $12,641, and bituminous macadam paving 4,400 ft. in Danvers to Ioffolla & Shields Constr. Co., 15 Noyes Pl., Boston, $26,355. Noted July 21.

Massachusetts—State Hy. Dept., Boston, bituminous macadam paving 15,038 ft. in Charlton, to F. Lanza, Pemberton Bldg., Boston, $185,919, 2,500 ft. in West Boylston, to J. J. McHugh, Leicester, $12,235, 3,300 ft. in Groveland, to B. Perni, Ashland, to $29,777, 8,600 ft. in Templeton, to Long, Cross & Burnham, Greenfield, $67,602, rein.-con. paving 1,000 ft. in Salem, to W. F. Duffee, Haverhill, $9,386; bituminous concrete paving 19,841 ft. in Orleans and Eastham, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $90,331; gravel with bituminous surface treatment 4,900 ft. in Pepperell, to J. F. Rooney, Milford, $23,977; and rein.-con. bridge and approaches on 4,916 ft. in East Bridgewater, to Powers Bros., Brockton, $20,575. Grand total $439,802. Noted July 14.

Massachusetts — Dept. Pub. Wks., Boston, gravel with bituminous surface treating, 8,250 ft. highway in Hadley, to Gleason Bros. Inc., Northampton, $53,573. Noted July 28.

Mass., Boston—Grading and reconstructing Ashland and Oakland Sts. Ward 18, to W. J. Barry, 431 Ashland St., Roslindale, Engrs. est. $25,000; sheet asphalt or bithilithic paving Boylston St. Ward 4 and 5, to J. McCourt Co., 910 Huntington Ave., $55,115; recut granite block paving A St., South Boston, to S. J. Tomasello, 11 Cushing Terrace, Dorchester, $56,494. Noted June 23.

Mass., Braintree (Ind. br. Boston)—Bituminous macadam or sheet asphalt resurfacing Washington St. etc. to Reynolds Bros. Inc., 179 Summer St., Boston, $23,954.

Mass., Cambridge (br. Boston)—Metropolitan Dist. Com., 1 Ashburton Place, Boston, bituminous concrete surfacing, etc., 15,000 sq.yd. Memorial Dr. and Cambridge Parkway, to Simpson Bros. Corp., 77 Summer St., Boston, $22,100. Engrs. est. $25,000.

New York—A. W. Brandt, comr. Highways, Albany, reconstructing 3.01 mi. Repair Contr. 1630 Hornell-Wayland Rd., Pt. 2, Highway 9029, Steuben Co. to Cold Spring Constr. Co., Ellicott Bldg., Buffalo, $121,752 e.e. $179,994; 2.59 mi. highway 1766, Glen Mill Point-De Forest Corner Rd. Pt. 2, Montgomery Co. to Koetteritz & Blakeslee, Little Falls, $190,350 e.e. $242,044; 2.43 mi. Repair Contr. 1633 Jericho Turnpike Highway, 1633, Jericho Turnpike Pt. 2, Highway 5111 Suffolk Co. to J. L. Duggan Inc., Little Britton Rd., Newburgh, $193,610 e.e. $263,176; 2.46 mi. Repair Contr. 3182 Wampsville-Oneida Castle Highway, 5078 Madison Co. to Harrison Engr. & Constr. Corp., Ellicott Sq., Buffalo, $143,450 e.e. $181,337; 0.24 mi. Repair Contr. 3181, Schroon Lake-North Hudson Rd. Pt. 2, Essex Co. to C. C. Donahue, Petersburg, $11,760 e.e. $27,050; 5.26 mi. highway 8286, Harford-Marathon Rd. Pt. 1 and 2 Cortland Co. to O'Day & Ambrose, Binghamton, $240,510 e.e. $325,283. Grand total $901,432. Noted July 21.

New York—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading, Saw Mill River Parkway from Yonkers to Dobbs Ferry, Contr. 163 to C. Bennett Improvement Co., 469 Fenimore St., Brooklyn, $271,908; also installing electric lighting in Tibbetts Brook Park, Rumsey Rd. and Nepperhan Heights Sect. Saw Mill River Parkway, in Yonkers, Cont. 149 to Ransom & Anderson Co., 136 Liberty St., New York. $36,211. Noted July 21.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, grading block repaving Bay St. to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $2,671; concrete curbing Maple Parkway and sewer in Lawrence Lane to J. Johnson Sons, 445 West New Brighton, $3,763 and $5,297. Grand total $11,660. Noted July 21.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and bituminous macadam paving Canal St. to J. E. Donovan Paving Co., 2207 Richmond Terrace, Port Richmond, $16,444 and St. Johns Ave. to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $6,270. Noted July 21.

N. J. Somerville—Bd. Freeholders Somerset Co. Court House, 2 mi. road between South Bound Brook and New Brunswick, to M. Staub, Pitman, $86,330. Noted July 14.

Maryland—State Roads Comn., Baltimore, concrete paving 0.93 mi. roads from end Contr. T-23, to Cordova, Contr T-26, Talbot Co. and 0.61 mi. road from Queenstown to Centerville, Contr. Q-40, Queens Anne's Co. to J. K. Flick, Sudlersville, $28,993 and $12,017 respectively, 1 mi. road from Myersville to Ellerton Contr. F-73, Frederick Co. to Poffenberger & Mause, Myersville, $38,546, 1.2 mi. road along Cherry Lane Contr. Ho-28 to Ward Connell, 3114 Presbury St., Baltimore, $24,886, 1.4 mi. road on Cookesville-Olney Rd. Contr. HO-44, to Thomas, Bennett & Hunter, Westminster, $49,999, both foregoing in Howard Co.; 2.48 mi. road between Rhodesdale and Vienna, Contr. D-45, Dorchester Co., to Layfield & Waller, Salisbury, $39,109, 1.94 mi. from near Oakwood to State Line, Contr. Ce-61, Cecil Co. to G. A. Atkinson, Port Deposit, $43,512, 3.43 mi. along Jarrettsville Rd. Contr. B-85, to H. T. Campbell Sons Co., Towson, $58,965 and sheet asphalt paving 0.48 mi. along Harford Rd. Contr. BG-67, to Amer. Paving & Constr. Co., Montbello Ave., Baltimore, $75,336 both foregoing in Baltimore Co.; graveling 0.76 mi. road from end Contr. CH-38, to Berry, Contr. Ch-44, Charles Co., to T. Mullan, 3945 Greenmount Ave., Baltimore, $5,712. Grand total $377,114. Noted July 14.

Maryland—State Roads Comn., Baltimore concrete paving 1.5 mi. road between Rohrersville and Gapland, Contr. W-49, Washington Co. to Poffenberger & Mause, Myersville, $34,822; 1.33 mi. road between Cambridge and Lloyds, Contr. D-46, Dorchester Co. and 2.6 mi. road from State Rd. near Preston to Hynson, Contr. Co-44 and Contr. D-44, Caroline and Dorchester Counties to P. D. Phillips & Bro., Salisbury, $40,427 and $42,918 respectively; 1.15 mi. road from Barnesville to Comus, Contr. M-78, and 1 mi. road from Brookville towards Sunshine, Contr. M-76, both Montgomery Co., to M. J. Grove Lime Co., Lime Kiln, $20,675 and $25,527 respectively. Grand total $164,369. Noted July 7 and 14.

Md., Baltimore — Grading, curbing and sheet asphalt on concrete paving streets listed in Contr. 417 to Baltimore Asphalt Block Co., 1320 North Monroe St., $79,193; and grading, curbing and granite block on concrete paving streets listed in Contr. 418 to Mahoney Bros., 1111 Rutland Ave., $20,444. Noted July 14.

Constr. News page 72

Streets and Roads (Continued)

Va., Richmond—Grading, graveling, curbing and gutering portions 8 streets, to J. J. Curley, 901 North 4th St., Engrs. est. $30,487. Noted June 16.

W. Va., Weston—Lewis Co., grading 6.7 mi. Walkersville-Braxton Co. line Rd., State Route 4, to Monongahela Constr. Co., Morgantown, $117,676

North Carolina—State Hy. Comn., Raleigh, to L. G. Smith & Co., Ashville grading and waterbound macadam paving, etc. 7.3 mi. Project 916, Cherokee Co. $59,832; to J. F. Mulligan Constr. Co., North Wilkesboro, grading, and small rein.-con. structures, etc. 9 mi. Project 228, Green Co. $34,075, clearing, grading and top soiling, etc. 5.2 mi. Project 5210, Randolph Co. $33,215, grading and topsoiling etc. 16.47 mi. Project 7580, Surry Co. $62,304, to Rutherford Constr. Co., Rutherfordton, 7.67 mi. Project. 8220 Cleveland Co. $32,404; to N. L. Teer, Durham, clearing, grading and small concrete structures 5.71 mi. Project 5770, Randolph Co. $28,095; to Simmons Constr. Corp., Morehead City, grading and sand asphalt paving 1.62 mi. Project 2030, Carteret Co., $49,376; to Hudson & Scruggs, Wilmington, clearing, grading and sand asphalt paving etc. 13.73 mi. Project 374, Pender Co. $218,163; to Hedrick Constr. Co., Lexington, grading and asphaltic concrete paving 1.2 mi. Project 4021, Chatham Co. $27,835; to Jamison Bros., High Point, clearing, grubbing, grading, etc. 11.90 mi. Project 315, Brunswick Co. $47,219; to G. R. Martin, Salisbury, grading and plain concrete paving 5.01 mi. Project 7780, Wilkes Co. $117,500, to Crowell & Foster, Statesville, 2.02 mi. Project 699, Union Co. $63,880, to Hy. Eng. & Constr. Co., Selbyville, Del., 5.87 mi. Project 4980, Warren Co., $138,842, to Powell Paving Co., Winston-Salem, 0.94 mi. Project 748, Forsyth Co. $29,446, to Roberts Paving Co., Salisbury, Md., 10 mi. Project 1961, Washington Co. $202,245, 9 mi. Project 231, Greene Co. $181,419, 3.32 mi. Project 4890, Wake Co. $67,434, 10.47 mi. Project 1580, Nash Co. $213,446, to W. F. Bowie, Jr., 541 Broad St., Augusta, Ga., 9.66 mi. Project 4800, Wake Co. $219,071, to Brown Paving Co., Lexington, 5.99 mi. Project 2700 Sampson Co. $118,834, to Belote Constr. Co., Asheville, 6.17 mi. Project 8400, Henderson Co., $129,624, to Noll Constr. Co., Charlotte, 4.68 mi. Project 5840, Randolph Co., $107,386; to W. C. Carter, Mebane, clearing, grading, and top soiling, etc. 16.96 mi. Project 826, Cleveland Co. $70,536. Grand total $2,252,181. Noted June 23.

Miss., Brookhaven—Lincoln Co., Bd. Supervs. Lincoln Co., grading, bridging, etc. 5.392 mi. Federal Aid Project 89-B, to D. F. Gates & Co., Crystal Springs, $40,985. Noted June 9.

Miss., Jackson—For 2 in. asphalt paving portions Broad and 1st Aves., Pinehurst, George and Fortification Sts., to Dunn Constr. Co., Chamber Commerce Bldg., Birmingham, Ala., $52,516.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, grading, etc., incl. 5 timber bridges, 14.48 mi. Gatlingburg-North Carolina State Line Rd., to Dicus Bros. Contr. Co., Waynesville, N. C. approximately $327,000. Noted May 19.

Tenn., Chattanooga—See "Bridges."

Michigan—G. H. Green, resident engr., Alpena, concrete paving 5.170 mi. F-016-13 Contr. 2, Cheboygan Co., to Goldberg Constr. Co., Grawn, $166,110. Noted July 14.

Mich., Ferndale (br. Detroit)—Curbing, guttering and concrete paving approximately 40,000 sq.yd. Livernois and Allen Aves., Kensington, Stratford, Rosewood, Vester, Burdette, Breckenridge and Lewiston Sts., to R. D. Baker Co., 1631 Elmhurst Ave., Detroit, $100,000.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, to Shanks & Wilson, Watseka, concrete paving 0.89 mi. Routes 9 and 25, Sects. 16-E, 17-E and 33-E, Ford Co., $19,464, to W. A. Black Co., 565 West Washington Bl., Chicago, Ill., 3.77 mi. Route 6, Sect. C-4, Du Page Co., $112,988, to A. J. Shanks, Watseka, 7.12 mi. Route 51, Sect. 105, Will Co., $164,355, to E. J. Eiff, Quincy, 3.62 mi. Route 85, Sect. 101, Mercer and Warren Counties $102,410, to Dyer Constr. Co., Hoopeston, 1.61 mi. Route 91, Sect. 111, Peoria Co., $44,499, to Madison Constr. Co., Edwardsville, 14.76 mi. Route 112, Sects. 101, 102 and 103, Madison and Macoupin Counties $313,000, 6.71 mi. Route 140, Sect. 109 White Co., $167,621 and 10.5 mi. Route 160, Sects. 132 and 133 Madison Co., $263,000, to Hamilton-Hoffman Constr. Co., Carbondale, 7.87 mi. Route 123, Sect. 101 Menard Co., $190,570, to R. E. Vinyard, Penton, 1.23 mi. Route 142, Sect. 127 Gallatin Co., $31,766, to Casey Constr. Co., Casey, 3.79 mi. Route 152, Sect. 101 Randolph Co., $87,203, to Darrow & Barron, Waukegan, 5.21 mi. Route 172, Sect. 128, Lake Co. $165,146, to Edwardsville Constr. Co., Edwardsville, 2.79 mi. Route 156, Sects. 103 and 103-B, incl. concrete girder bridge $70,253 and grading 2.55 mi. Route 156, Sect. 103-A Monroe Co., $17,316, to Dees Bros., Oblong, grading 6.28 mi. Route 130, Sect. 123-A, Richland Co., $59,604. Grand total $1,809,195. Noted July 21.

Ill., Venice—Removing brick and wood block paving and rein.-con. repaving portions Bway and Main St., to Concord Constr. Co., Buder Bldg., St. Louis, Mo., $107,040, and 5-in. rein.-con. paving 2,000 sq.yd. South State St., to L. B. Patton, Granite City, $4,391.

Wisconsin — State Hy. Comn., Court House, La Crosse, improving 10,104 ft. Wilton-Norwalk Rd., State Job 5848, Monroe Co., to Nelson, Mullen & Nelson, 355 Temple Court Bldg., Minneapolis, Minn. $21,915; constructing Meyer Bridge on same road, Job 5770, to M. Schroeder, Cashton, $4,218; shale surfacing, etc. 4,728 cu.yd. Mondovi-Eleva Rd. Project 5875, Buffalo Co., to W. J. Wolf, Eau Claire $25,277; and constructing Goss Bridge on Job B-5745, Buffalo Co., to H. Beckman & Co., Lake City, Minn. $8,432. Grand total $59,842. Noted July 28.

Iowa—State Hy. Comn., Ames, to C. Thompson, Shell Rock, gravel surfacing, etc. 10.1 mi. Project P-191 Bremer Co. $11,154, to M. O. Weaver, Iowa Falls, 17.568 mi. Project P-527, Cedar Co. $45,572, to R. Cook, Nevada, 4.121 mi. Project P-153, $1,746, 3.011 mi. Project P-357 $676 and 3.932 mi. Project F-297 $2,979, all foregoing in Greene Co.; to Iowa Sand & Gravel Co., Eddyville, 4.795 mi. Project P-452 Keokuk Co. $25,845, to Moore, & Eldridge, Clemons, 6.155 mi. Project P-517, Muscatine Co. $7,374 and 11.755 mi. Project P-522 Muscatine Co. $13,429, to Lynch & Co., Castina, 4.01 mi. Project F-286 Ida Co. $3,678 and grading, paving, etc. 2,184 sq.yd. U. S. Highway 20, Project F-2, Woodbury Co. $7,170; to Wright Constr. Co., 1325 Main St., Des Moines, paving 79.917 sq.yd. U. S. Highway 61, Project P-480 Lee Co. $184,610, 101,473 sq.yd. U. S. Highway 30, Project F-214 Harrison Co. $240,069 and 4,000 sq.yd. U. S. Highway 32-E, Project F-206 Polk Co. $13,665; to American Paving Co., 1325 Grace St., Omaha, Neb., grading and paving 236,074 sq.yd. U. S. Highway 20, Project F-2, Woodbury Co. $671,652 and grading, etc. 3.064 mi. U. S. Highway 20, Project F-305, Dubuque Co. $31,953; to Dave Condon, Omaha, Neb., grading 1.173 mi. U. S. Highway 30, Project P-504 Newton Co. $5.593, to Belknap & Son, Clear Lake, 6.616 mi. U. S. Highway 20, Project P-239, Buchanan Co. $33,786, to J. H. Miller, Newton 6.21 mi. Project P-260 Butler Co. $30,056, 9.814 mi. Project P-99, Jasper Co. $53,609 and 13.285 mi. U. S. Highway 61, Project P-481, Muscatine Co. $83,339, to Brereton & Bauch, Emmetsburg, 1.745 mi. Project P-500 Emmet Co. $9,499, to J. B. Hannah, Keokuk, 0.53 mi. Project F-34, Keokuk Co. $2,180, to W. M. Cummings, Ottumwa, portion U. S. Highway 61, Project P-480 Lee Co. $45,481, to Hughes Constr. Co. Des Moines, 20,403 cu.yd. U. S. Highway 32, Project F-206 Polk Co. $11,572 and to Craig Constr. Co., Des Moines, same road $2,790, to G. Conson, Omaha, Neb., 5.382 mi. Project P-298 Pottawatomie Co. $40.248, to C. C. Barnes & Son, 313 Equitable Life Bldg., Des Moines, 6.937 mi. Project P-484, Ringgold Co. $48,002, to J. Wachler & Co., 1805 Dodge St., Omaha, Neb., 1.04 mi. Project P-376, Union Co. $8,721 and 4.967 mi. Project P-491, Union Co. $31,032, to O'Hanlon & Reilley, Omaha, Neb., 4.374 mi. Project P-474, Wright Co. $21,949, to Material Supply Co., Boone, 8,000 cu.yd. bridge fill on U. S. Highway 34, Project F-3, Jefferson Co. $3,600. Grand total $1,693,023.

Iowa—Henry Co. (Mt. Pleasant) and Lee Co. (Ft. Madison)—Grading, 7 in. concrete paving, etc. 116,581 sq.yd. Coleman Rd., to Harrison Eng. & Constr. Co., Mutual Bldg., Kansas City, Mo., $270,216. Noted Aug. 4.

Ia., Cedar Rapids—Linn Co. crushed rock surfacing 10,500 sq.yd. County Road 14, to Falcon & Reinking, Inc., 216 Cedar Rapids Natl. Bank Bldg., $25,672, and graveling 16,765 sq.yd. Primary Road 11, to M. O. Weaver, Iowa Falls, $25,012.

Ia., Danbury—J. C. Jacobson, town clk., curbing, guttering and paving 40,000 sq. yd. various streets, to Amodeo Paving Co., 1420 Woodlawn Ave., Des Moines. Noted July 7.

Ia., Eagle Grove—To O. P. Herrick, 704 Observatory Bldg., Des Moines, brick paving 10,589 sq.yd. various streets, at $1.69 per sq.yd., removing old pavement at $0.12; to Municipal Eng. Co., 421 Hubbell Bldg., Des Moines, 1 in. sheet asphalt resurfacing 11,398 sq.yd. various streets, at $0.97.

Ia., Nevada—Story Co. to Moore & Eldridge, Clemens, improving Secondary Graveling Dists. 9, 9½, 37, 39, 47 and 50, 9,200 cu.yd. gravel at $0.32 and $0.30, 8,000 cu.yd. gravel complete on road at $1.60 and $1.90, 203,250 units gravel ½ mi. haul at $0.062 and 1,850 cu.yd. stripping at $0.20.

Ia., Pella—A. C. Kuyper, city clk., integral curbing and concrete paving 75,000 sq.yd. various streets, to J. S. McLaughlin & Sons Co., 519 Insurance Exchange Bldg., Des Moines. $176,576. Noted June 30.

Ia., Sioux City—Woodbury Co., 6 in. concrete paving, to Western Asphalt Paving Co., 2100 East 4th St., at $2.44 per sq.yd.

Minnesota—State Hy. Comn., St. Paul **(F.A.P. means Federal Aid Project** and **S.P. State Project)**, grading 92,000 cu.yd. F.A.P. 407, S.P. 28-31, to W. A. Hollern, St. Cloud, $42,839; grading, concrete paving, etc. 21,000 sq.yd. S.P. 2-30, Sect. 2, F.A.P. 386, to E. W. Hallet, Crosby, $39,676 and 168,000 cu.yd. excav. Sect. 3 same project to Babcock, Boomer & Babcock, Winnebago, $56,933 and culverts, $2,159. Grand total $141,607. Noted July 21.

Minn., Crookston—Polk Co. improving 12 mi. Job 2703, Crookston-Melvin Rd., 130,000 cu.yd. excavation, to H. P. Lund & Sons, Thief River Falls $27,781; and 6 monolithic culverts, to Crookston Cement Products Co., Crookston $4,420. Noted July 14.

Minn., East Grand Forks—Paving, etc. approximately 38,650 sq.yd. various streets, to Woodrich Constr. Co., 808 Metropolitan Life Bldg., Minneapolis, $99,862.

Minn., Moorhead—Rock concrete paving 23,200 yd. in City Paving Projects 19 and 20, to A. F. Johnson Constr. Co., 747 Plymouth Bldg., Minneapolis $74,200.

Kan., Goodland—Sherman Co., graveling, 15.813 mi. Federal Aid Project 263-C, 30 ft., to San-Ore Constr. Co. Inc., McPherson, $25,038. Noted July 7.

Kan., Wellington—For grading, curbing, guttering and concrete paving, etc., 10,936 sq.yd. various streets to Globe Constr. Co., 1041 North Water St., Wichita, $27,822. Noted June 30.

Neb., Lindsay—For 6 in. Johnson concrete (granite) paving 6 blocks various streets, to Booth & Olson, 318 Grain Exch. Bldg., Sioux Falls, Ia. $35,500.

Neb., Omaha—Sheet asphalt paving, etc. approximately 12,000 yd. various streets, to F. L. Busche, 4118 North 30th St. at $1.96. per yd. Engrs. est. $50,000.

Neb., Wausa—Rein.-con. paving, etc. 17,000 yd. various streets, to Metz Constr. Co., Springfield $39,963. Noted July 7.

Mont., Butte—Improving Harrison Ave., 11,180 yd. asphaltic concrete paving, 3,354 yd. shoulders and 23,991 yd. waterproofing, etc., to J. C. Maguire, Metals Bank Bldg., Butte $29,774.

Mo., St. Louis—See "Proposed Work." under Buildings—Industrial.

Arkansas—State Hy. Dept., Little Rock, graveling 3.163 mi. State Aid Project C-2-S4-C, Columbia Co., to Mississippi-Arkansas Constr. Co., Home Insurance Bldg., Little Rock, $18,811 and 7.81 mi. State Aid Project C-59-S1-A, Chicot Co., to Selz Constr. Co., McGehee, $13,169, 7.95 mi. road between Texarkana and Louisiana State Line, State Aid Project C-71-S1, Miller Co., to J. Newkirk, Rustin, La., $42,776; 200 ft. bridge rein.-con., and steel between Texarkana and Louisiana State line, State Aid Project C-71-S1-B, Miller Co., and 355 ft. bridge rein.-con. and steel on El Dorado-Smackover, Federal Aid Project 182-A, Union Co., to McGuire & Cavender, Clinic Bldg., Texarkana, $16,286 and $40,165 respectively; 16. 828 mi. road between Thornton and Hampton, State Aid Project 115-C-S3-A, Calhoun Co., to Lynch & Hill, Rector Bldg., Little Rock, $48,964; concrete paving on 10.814 mi. El Dorado-Smackover Road, Federal Aid Project 182-A, Union Co., to Kochtitzky & Prosser, Carbondale, Ill., $321,811; 6.058 mi. road between Lee-Phillips Co. line and Barton, Federal Aid Project 192-C, Phillips Co., to F. D. Harvey & Co., Jonesboro, La., $17,687. Grand total $519,669.

Arkansas—State Hy. Com., Little Rock, for grading, and concrete paving 6.306 mi. Warren North Road Federal Aid Project 229-A, Bradley Co., to Lawrence Constr. Co., Lamar Life Bldg., Jackson, Miss., $146,430; also graveling 14.788 mi. road between Ouachita-Calhoun county line and Hampton to Mississippi Arkansas Constr.

Streets and Roads (Continued)

Co., Home Insurance Bldg., Little Rock, $24,602.

Arkansas—State Hy., Comn., Little Rock, grading, graveling 9.59 mi. Hope-Lewisville Rd., Lafayette Co., Federal Aid Project 215-B, to Tarrant & Miles, El Dorado, $43,251.

Ark., Ft. Smith — Sebastian Co., 1,240 sq.yd. concrete paving Sect. A and 11,000 sq.yd. 6-in. concrete slab surfacing Sect. B, County Highway, to Kaw Paving Co., New England Bldg., Topeka, Kan., $27,400.

Texas—State Hy. Dept., Austin, retreating surface 34 mi. roads in Colorado and Fayette Counties to Brown & Root, Georgetown, $54,381.

Tex., Abilene—Taylor Co. grading, etc. 10.38 mi. Highway 1, Federal Aid Project 4441, 26 ft. to F. Purvis, 1009-10 W. T. Waggoner Bldg., Fort Worth, $18,757. Engrs. est. $25,000. Noted Apr. 7.

Tex., Anderson—Grimes Co., rein.-con. paving etc. 6.71 Highway 6, Federal Aid Project 471-B, to A. Smith, Bryan, $167,667. Engrs. est. $185,000.

Tex., Barstow—Ward Co., asphaltic paving, etc. 11.13 mi. Highway 1, 16 ft. to H. K. McCollum F & M Bank Bldg., Fort Worth, $30,871. Engrs. est. $30,500.

Tex., Carrizo Springs—Dimmit Co., rock asphalt paving 14 mi. Highway 55, to Colglazier & Hoff, 941 Austin St., San Antonio, $33,815.

Tex., Dallas—Dallas Co. grading, and 7 in. concrete or 2 in. bitulithic concrete (Modified Topeka) on 6 in. concrete paving 0.703 mi. Highway 6, Mockingbird Lane Project, to Austin Bridge Co., 1815 Clarence St., Dallas, $25,722.

Tex., Fairfield—Freestone Co., rein.-con. paving 6.86 mi. Highway 7, Federal Aid Project 462, to F. P. McElwrath, Corsicana, $181,282.

Tex., Falfurrias—Brooks Co. grading, bridging and concrete paving, etc. on Highways 12 and 16, to Southwestern Bitulithic Co., c/o Gunter Bldg., San Antonio, $418,154. Noted June 30.

Tex., Fredericksburg—Gillespie Co. 3 to 4 in. crushed stone paving 14.1 mi. Highway 9, to P. Schriewer, Seguin, $31,688.

Tex., Galveston—Galveston Co. concrete paving with shell shoulders, etc. 4.963 mi. Highway 6, 20 ft. to J. W. Zempter & Co., 2101 G St., Galveston, $185,507. Engrs. est. $223,000.

Tex., Harrisburg—Harris Co. (Houston) paving 2 mi. La Porte Rd. here, to A. M. Arnold, 1602 Elder St., Houston, $43,838. Engrs. est. $50,000.

Tex., Houston—Harris Co. grading and bridging, Sect. "A" Market Street Rd., to Brown & Root, Post Dispatch Bldg., $139,147. Engrs. est. $150,000.

Tex., Panhandle—Carson Co., grading, bridging, etc. 10.026 mi. Highway 33, Federal Aid Project 421-E, and 9.830 mi. Highway 33 between St. Francis and Panhandle, to Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $26,079 and $23,434 respectively.

Tex., Sulphur Springs—Hopkins Co. rein.-con. paving 24 mi. Highway 1, Federal Aid Project 431-B, to Jagoe Constr. Co., Box 418, Denton, $351,851. Engrs. est. $375,000.

Tex., Wharton—Wharton Co. grading, bridging, etc. 12.466 mi. Highway 12, 26 ft. to S. F. Vann, Trinity, $59,574.

Oklahoma—State Hy. Dept. Oklahoma City **(F. A. P. means Federal Aid Project, S. A. P., State Aid Project and e. e., engineers estimate)**, to Rightmire & Baldwin, 108 East Grand Ave., Ponca City, grading, concrete paving, etc. 15,378 sq.yd. S. A. P. 338, Alfalfa Co., $37,561, e.e. $40,000, 11,258 sq.yd. Blackwell-Ponca City Rd., Kay Co., $25,893, e.e. $27,000 and 10,978 sq.yd. S. A. P. 399-A, Woods Co. $28,149, e.e. $30,000, to Highway Constr. Co., Kennedy Bldg., Tulsa, 69,449 sq.yd. S. A. P. 339, Alfalfa Co. $159,585, e. e. $175,000, to Hyde Constr. Co., American Bank Bldg., Enid, 68,601 sq. yd. F. A. P. 148-H, Grant Co., $149,322, e. e. $160,000, to E. W. Baker & Co., Medical Arts Bldg., Oklahoma City, 2,977 sq.yd. F. A. P. 148-J Grant Co. $6,310, e. e. $7,500, to Flynn Constr. Co., 2242 West 20th St., Oklahoma City, 87,903.8 sq.yd. F. A. P. 165-A, Kay Co. $192,229 e. e. $200,000, to Stanton & Wallace, Leavenworth, Kan., 21,120 sq.yd. Newkirk-Peckham Rd., Kay Co. $46,464 e. e. $50,000, to J. S. Martin, Hartshorne, 4,957 sq.yd. S. A. P. 354, Pittsburg Co. $11,974, e. e. $15,000; to H. L. Cannady & Co., 1122 South Lewis St., Tulsa, sheet asphalt paving 88,798 sq. yd. F. A. P. 175, Hughes Co. $240,820, e. e. $260,000, to Ward, Beekman & Brooks, 1801 East 9th St. Oklahoma City, 58,961 sq.yd. F. A. P. 186-A, Pittsburg Co. $160,336, e. e. $175,000; to Witt & Bolton, Grandfield, grading, etc. 10.05 mi. F. A. P. 215-A and B Commanche Co. $29,504, e. e. $30,000, to Patterson & Patterson, South Bickford St., El Reno, 9.76 mi. County Project 163-E and F, Canadian Co. $74,010, e. e. $80,000, to J. Ables, Modill, 5.718 mi. F. A. P. 196-C, Haskell Co. $19,989, e. e. $25,000, to Pharoah & Fell, Henryetta, 5.845 mi. S. A. P. 327-E, Le Flore Co. $72,894, e. e. $80,000, and 9.2 mi. F. A. P. 235-B and C, Pontotoc Co. $41,478, e. e. $50,000, to R. R. Tway, Empire Bldg., Oklahoma City, 3.345 mi. F. A. P. 230-C, Noble Co., $17,432, e. e. $20,000, to Taylor & Younger, Oil Exch. Bldg., Oklahoma City, 12.1 mi. F. A. P. 231-A and B, Noble Co. $96,991, e. e. $110,000, to M. A. Swatek, 519 West Main St., Oklahoma City, 0.9094 mi. F. A. P. 186, C and D, Pittsburg Co. $17,986, e. e. $20,000 to J. J. Harrison, Oil Exch. Bldg., Oklahoma City, 7 mi. F. A. P. 235-A Pontotoc Co. $38,370, e. e. $45,000. Grand total $1,467,297. Noted July 21.

Washington—State Hy. Comn., Olympia, **(S.R. means State Road, and F.A.P., Federal Aid Project)**, grading, etc. 104,000 cu.yd. S.R. 2, Sect. 2, F.A.P. 114-C, Kittitas Co., to Myers & Goulter, 2621 Franklin Ave. Seattle $96,458, 77,600 cu.yd. S.R. 2, Sect. 2, F.A.P. 114-B, Kittitas Co., and 131,000 cu.yd. S.R. 2, Sect. 1, F.A.P. 114-C, Kittitas Co., to Coyle Constr. Co., 901 Westlake Ave., N., Seattle, $124,403 and $137,775 respectively, also 221,500 cu.yd. S.R. 2, King Co., to A. Besoloff, 1715 12th Ave., Seattle $135,880; crushed graveling, etc. 21,410 cu.yd. S.R. 8, Clark and Skamania Counties, to L. Welch, R.F.D. 1, Box 21 A, Vancouver $20,270, and 10,970 cu.yd. S.R. 9, Clallam Co., to C. E. Martin, R.F.D. 3, Box 160, Seattle $15,396; concrete paving, etc. 61,515 sq.yd. S.R. 3, F.A.P. 169-A, Walla Walla Co., to Midstate Contract Co., Box 33, Yakima $158,642, 49,362 sq.yd. S.R. 1, Clark Co., to Albertson, Cornell Bros., & Walsh, 1113½A St., Tacoma $138,319, 31,500 sq.yd. S.R. 12, F.A.P. 131-C, Lewis Co., to Alexander & McNeil, Mt. Vernon $93,462; also crushed rock surfacing, etc. 12,500 cu.yd. S.R. 3, Sect. 1, F.A.P. 152-B, Whitman Co., to Crick & Kuney, 303 Baker Bldg., Walla Walla $67,645. Grand total $988,250. July 21.

Buildings—Commercial

Proposed Work

Me., Farmington — HOSPITAL — Bd. Trustees Franklin Co. Memorial Hospital, having plans prepared by H. C. Pelton, 415 Lexington Ave., New York City, 3 story and basement, 40 x 160 ft., hospital. $160,000. Noted July 6.

Mass., Jamaica Plain (sta. Boston)—HOSPITAL — Faulkner Hospital, 1153 Centre St., having revised plans prepared by C. T. Thayer, 89 Franklin St., Boston, 4 story and basement, 45 x 150 ft., brick addition, plain foundation, $150,000 or more. Former bids rejected.

Conn., New Britain—BUSINESS—L. R. Raphael, 382 Main St., soon lets contract 5 story and basement, brick and steel, Main St. To exceed $150,000. Hopkins & Dentz, 415 Lexington Ave., New York City, archts.

N. Y., New York—BANK—National City Bank, 55 Wall St., having plans prepared by Walker & Gillette, 128 East 37th. St., 2 story, 30 x 100 ft. bank, 123 East 86th St. $150,000.

N. J., Asbury Park — HOTEL — Kelly Bldg. Co., plans 10 story brick and steel, plain foundation, Kingsley St., 8th Ave. and Deal Lake. $1,500,000. Engineer and architect not selected.

N. J., Bayonne — HOSPITAL — Jewish Hospital Assn., A. Bernstein, pres., 2852 Hudson Blvd., takes competitive sketches about Oct. 15, 4 story, brick and steel, plain foundation, Blvd. and 49th St., here. $2,000,000. Engineer and architect not selected. Noted June 30.

N. J., Bloomfield — APARTMENTS — Lifton Realty Co., 13 Broad St., Newark, having plans prepared by L. Kasoff, 164 Market St., Newark, 4 story and basement, 110 x 165 ft., brick and steel, plain foundation, Linden and Ashland Aves. $200,000.

N. J. Bloomfield — APARTMENT — J. Simon, 316 Smith St., Newark, having plans prepared by Siegler & Greenburg, 164 Market St., Newark, 3 story and basement, 110 x 120 ft., brick and steel, plain foundation, Berkley Ave. $150,000.

N. J., Bloomfield—TOWN HALL—Town, 41 Washington Ave., soon takes bids 3 story, brick and steel, plain foundation, Franklin St., here, $250,000. W. O. Bartlett, 738 Broad St., Newark, archt. F. B. Dwyer, 31 Clinton St., Newark, engr. Noted June 16.

N. J., Camden—HOSPITAL—Dept. Pub. Health, W. S. Price, mayor, having plans prepared by Edwards & Green, 548 Federal St., hospital, on Pershing and Sheridan Sts. $1,000,000. Noted July 28.

N. J., Englewood—APARTMENT—Matthew Quinn Corp., 110 West 40th St., New York City, having plans prepared by C. G. Eichholz, Jr., 960 Bergenline Ave., Union City, 5 story and basement, 100 x 150 ft., Hillside Ave. and Spring Lane. $1,500,000.

N. J., Kearny—APARTMENT—F. Sherwood, c/o Kelly & Cowan, archts., 921 Bergen Ave., Jersey City, having plans prepared, 3 story and basement, 100 x 135 ft. brick and steel, plain foundation, 6-10-14 Woodland Ave., $150,000.

N. J., Montclair—STORE, LODGE ROOM, etc.—W. Grigsby, 22 Orange Rd., having revised plans prepared by S. Van Antwerp, 14 South Park St., 3 story and basement, 50 x 100 ft., brick and steel, plain foundation, Bloomfield Ave. $150,000.

N. J., Newark—APARTMENT—Owner c/o L. Kasoff, archt., 164 Market St. having plans prepared 5 story and basement, 75 x 125 ft., brick and steel, plain foundation, 9th St., here. $150,000.

N. J., Newark—HOTEL, THEATRE and ARENA—Newark Auditorium Inc., E. I. Clark, 671 Broad St., had plans prepared and soon takes bids 20 story and basement 160 x 510 ft. rein.-con., brick and steel, Washington and James Sts. $6,000,000. T. W. Lamb, 644-8th Ave., New York City, archt., H. H. Marshall, 37 West 43rd St., New York City, engr. Noted July 21.

N. J., Newark—OFFICE—E. V. and C. F. Warren, archt., Essex Bldg., soon takes bids general contract 2 story and basement, 50 x 276 ft. rein.-con., brick and steel, plain foundation, Washington and Plumb Streets, $150,000.

N. J., North Bergen (br. Weehawken)—APARTMENT—R. Francesconi, 39 18th St., West New York by G. Willaredt, 411 23rd St., West New York having plans prepared, 5 story and basement, 75 x 100 ft. brick and steel, plain foundation, Bergenline Ave. and 32nd St., here. $150,000.

N. J., Palisade Park—APARTMENT—A. Pumot Co., 765 Hudson Ave., West New York, having plans prepared by G. W. Dexter, 1012 Palisade Ave., Palisade, 5 story and basement, 75 x 100 ft. brick and steel, plain foundation, Columbia Ave. and Edgewood Lane, here. $150,000.

N. J., Paterson—GARAGE and SHOP ROOM—Owner, c/o A. E. Sleight, archt., 138 Washington St., had plans prepared, 2 story, 215 x 250 ft., brick and steel, plain foundation, Allison Pl. $250,000.

N. J., Paterson—SHOW ROOM and SERVICE STATION—A. E. Sleight, archt., 138 Washington St., soon lets contract 1 story and basement, 100 x 300 ft., brick and steel, plain foundation, Market and 36th Sts. for J. A. McCrane Motor Co., 638 Market St. $150,000. Noted July 21.

N. J., Paterson—STORES and GARAGE—J. T. Jordon, 109 Washington St., having plans prepared 3 story and basement, brick and steel, plain foundation, 21-29 Bway. $150,000. Private plans.

N. J., Ridgewood—THEATRE, OFFICE and STORE—North Oak Improvement Co., c/o P. Vivarttas, archt., 110 48th St., Union City, having preliminary plans prepared, 3 story, brick and steel, plain foundation, Oak St. and Franklin Ave., here. $500,000.

Ky., Murray—HOTEL—Natl. Hotel System, Inc., 317 North 11th St., St. Louis, Mo., having plans prepared by Klingensmith, Rice & Wilkins, 317 North 11th St., St. Louis, Mo., and Jamieson & Eddings, associated archts., Paducah, 3 story and basement, 50 room, brick, plain foundation, here. $150,000.

O., Shaker Heights (mail Cleveland)—APARTMENT—Van Sweringen Realty Co., c/o Small & Rowley, archts., 1836 Euclid Ave., Cleveland, had plans prepared 3 story and basement, 33 x 98 ft., 24 x 32 ft., and 38 x 82 ft., brick, here. $200,000.

Mich., Detroit—CLUB—Gabriel Richard Council, Knights of Columbus, 8127 East Jefferson Ave., having plans prepared by C. E. Schley, 1121 Lafayette Bldg., 4 story and basement, rein.-con., brick and steel, plain foundation East Jefferson Ave. Archts. est. $400,000.

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Building—Commercial (Continued)

Ill., Chicago—APARTMENT—Quinn & Christensen, archts., 360 North Michigan Ave., preparing plans and soon takes bids 13 story and basement, 60 x 125 ft., rein.-con., brick and stone, 67th St. and Crandon Ave., for Sixty-Seven-Hundred Crandon Avenue Building Corp., c/o archts. $900,000.

Ill., Chricago—APARTMENT—C. W. Westerland, archt., 612 North Michigan Ave., making sketches 7 story and basement, 50 x 135 ft., rein.-con., brick and terra cotta, Thorndale, near Sheridan Rd. $350,000. Owner's name withheld.

Ill., Chicago—APARTMENT—H. Zisook having plans prepared by T. R. Bishop & Son, 35 South Dearborn St., and soon takes bids 8 story and basement, 50 x 150 ft., rein.-con., brick and stone, 5719-21 Kenwood Ave., $500,000. Noted Jan. 20.

Ill., Chicago—APARTMENT—H. Zisook, soon takes bids 3 story and basement, 100 x 170 ft., brick and stone, Lunt Ave. and Paulina St. $275,000. T. R. Bishop & Son, 35 South Dearborn St., archts.

Ill Chicago—CLUB—Womans Athletic Club, 606 South Michigan Ave., having sketches made by P. B. Maher, 157 East Erie St., 18 story, 75 x 100 ft. club building, Michigan Ave. and Ontario St.

Ill., Chicago—HOSPITAL—D. G. Wallace, archt., 22 West Monroe St., preparing plans and soon takes bids 8 story and basement, 40 x 115 ft., rein.-con., brick and stone, 61st St. and Drexel Ave., for Woodlawn Hospital, c/o archts. $300,000. F. A. Randall, 160 North La Salle St., engr.

Ill., Chicago—HOTEL—Syndicate, c/o W. Bernhardt & Co., archts., having sketches mafide 8 story and basement, 50 x 125 ft., rein.-con., Center St. and Hudson Ave. $650,000.

Ill., Chicago — THEATRE, STORE and APARTMENT—J. Horwitz, 10 South La Salle St., had plans prepared by G. E. McClellen, 7441 Cottage Grove Ave., and soon takes bids 3 story and basement, 123 x 223 ft., rein.-con. and brick, 119th St. and Eggleston Ave., $600,000. Noted June 9.

Ill., Chicago—Perkins, Chatten & Hammond, archts., 160 North La Salle St., preparing plans and takes bids about Sept. 1, 5 story and basement, 125 x 215 ft., rein.-con., brick, stone and steel Y.M.C.A. Building, 3333-41 North Marshfield Ave., for Y.M.C.A., 19 South La Salle St. $750,000. F. A. Randall, 160 North La Salle St., engr. Noted Mar. 3.

Ill., Oak Park—APARTMENT—Meyer & Cook. archts., 820 Tower Court, preparing plans and soon takes bids 3 story and besement, 100 x 116 ft., and 65 x 100 ft., brick and stone, Holley Court and Marion St., for R. E. Nicholas, Oak Park, $225,000.

Wis., Clintonville—HOTEL—Clintonville Hotel Co., H. Brooks, pres., having plans prepared by Oppenhamer & Obel, Green Bay, 3 story and basement, 65 x 100 ft., rein.-con., brick and steel, plain foundation. $150,000.

Wis., Menasha—CLUB HOUSE—Menasha Aerie, c/o C. Meyer, having plans prepared by C. C. Reynolds, Michigan Bldg., Green Bay, 2 story, rein.-con., brick and steel, plain foundation. $150,000.

Minn., Minneapolis — HOSPITAL—State Dept. Administration & Finance, State Capitol, St. Paul, having plans prepared by C. H. Johnston, 714 Capital Bank Bldg., St. Paul, 5 story and basement, 48 x 98 ft. hospital, 4 story and basement diagnostic unit, and 4 story and basement, health service building, all rein.-con. and brick, State University, here. $200,000 each.

Calif., Los Angeles—APARTMENT—Lilly-Fletcher Syndicate, c/o Walker and Eisen, archts., Western Pacific Bldg., having preliminary plans prepared 13 story and basement, rein.-con., pressed brick and terra cotta, Wilshire and Alexandria Aves. To exceed $1,000,000.

Bids Desired

Mass., Boston—APARTMENT—See "Contracts Awarded."

Mass., Natick—STORE and OFFICE—See "Contracts Awarded."

Mass., Quincy (Boston P. O.)—APARTMENT—See "Contracts Awarded."

R. I., Burrillville (mail Harrisville)—HOSPITAL—Aug. 12, by Public Welfare Dept., State House, Providence, brick and steel sanatorium, here. $150,000. W. Fontaine, 285 Main St., Woonsocket, archt.

N. Y., Corning—HOTEL—Aug. 22, by Thomas Martin & Kirkpatrick, archts., 220 South 16th St., Philadelphia, Pa., 5 story and basement, 70 x 140 ft., brick and steel, plain foundation, here, for Corning Hotel Corp.

N. Y., New York—APARTMENT—See "Contracts Awardad."

N. Y., New York—OFFICE—See "Contracts Awarded."

N. J., East Orange—APARTMENT—See "Contracts Awarded."

N. J., Leonia—APARTMENT—See "Contracts Awarded."

N. J., Newark—OFFICE—Public Service Corp., 80 Park Pl., taking bids 12 story, 67 x 86 ft., brick and steel, addition, plain foundation, East Park and Pine Sts., $200,000. Public Service Production Co., 80 Park Pl., archts.

N. J., North Bergen (br. Weehawken)—APARTMENT—See "Contracts Awarded."

N. J., Summit—APARTMENTS—Summit Realty Co. Inc, 9 Albion St., Passaic, taking sub-bids, two 3 story and basement, 138 x 165 ft., brick and steel, plain foundation, Euclid and Summit Aves. here. $250,000. F. Pirrone, 104 Midland Ave., Garfield, archt. Noted May 17.

Pa., Bryn Mawr—HOSPITAL—Aug. 15, by Bryn Mawr Hospital, Building A 7 story and basement, 44 x 207 ft. and Building B 4 story and basement, 46 x 51 ft. and 48 x 162 ft., rein.-con., brick and steel, plain foundation, here. Zantzinger, Bore & Medary, Otis Bldg., Phila., archts.

Pa., Phila.—APARTMENT—Aug. 17, by McIlvaine & Roberts, archts., Otis Bldg., 20 story and basement, 85 x 90 ft., rein.-con., brick and steel, plain foundation, 2031 Locust St., for C. J. McIlvaine, c/o archts. $1,000,000.

Ill., Chicago—APARTMENT—H. K. Holsman, archt., 307 North Michigan Ave., taking bids 7 story, 34 x 90 ft., rein.-con., brick and stone, 56th St. for Kenwood-Fifty-Sixth Street Building Corp., c/o archt. $200,000.

Wis., Milwaukee—STORAGE—Aug. 15, by Eschweiler & Eschweiler, archts., 210 Mason St., 8 story, 74 x 150 ft., rein.-con., plain foundation, Wisconsin Ave., for Coakley Bros., 41 2nd St. $175,000. Noted Aug. 4.

S. D., Aberdeen—HOTEL—Aug. 15, by A. L. Ward, 1216 North Main St., rebuilding 6 story and basement, 70 x 140 ft., rein.-con., brick and stone, hotel recently destroyed by fire. $300,000. Ellerbe & Co., 692 Endicott Bldg., St. Paul, Minn., archts. Noted Feb. 17.

Mo., Glendale (mail Kirkwood)—CLUBHOUSE—See "Contracts Awarded."

Tex., Port Arthur—TEMPLE—Sept. 8, by Cosmopolitan Lodge 872, A. F. & A. M. A., E. Scott, chn. bldg. com. 3 story, and roof garden rein.-con., brick and stone, Lake Shore and Lake Charles Ave. $150,000. W. B. Ittner & Co., 911 Locust St., St. Louis, Mo., archts.

Calif., Berkeley — VETERANS' MEMORIAL BUILDING—Supervs. Alameda Co., taking bids 2 story and basement, rein.-con. and stone, $150,000. H. H. Meyers, Kohl Bldg., San Francisco, archt.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Merced—BANK and OFFICE—Bank of Italy, Bank of Italy Bldg., San Francisco, taking bids 3 story and basement, rein.-con. bank and office, L. and 17th Sts., here. $175,000. H. A. Minton, Eddy and Powell Sts., San Francisco, archt.

Contracts Awarded

Mass., Boston — APARTMENT — Interstate Bldg. & Constr. Co., c/o E. B. Stratton, archt., 25 Arch St., will build 3 story and basement, brick and stone, plain foundation, Chiswick and Braemore Rds. $150,000. Work to be done by separate contracts.

Mass., Natick—STORE and OFFICE—L. Waldman, 221 Washington St., Chelsea, will build 2 story and basement, 85 x 110 ft. and 85 x 85 ft., brick and stone, plain foundation, Washington and Court Sts. Work to be done by separate contracts. Private plans.

Conn Stamford — OFFICE — Stamford Gas & Electric Co., 11-17 Bank St., 6 story, 50 x 200 ft., brick and steel building here, to J. Lowry Inc., 270 Madison Ave., New York City, N. Y. Archts. est. $350,000. Noted Apr. 14.

Mass., Quincy (Boston P. O.)—APARTMENT—Abrahamson & Cohen, 333 Washington St., Boston, will build 3 story and basement, 75 x 100 ft., brick and stone, plain foundation, Waterson St., by day labor. $150,000. S. S. Levy, 35 Court St., Boston, archt.

Mass., West Springfield (br. Springfield)—APARTMENT—W. B. Chandler, and West Springfield Corp. Bank, 3 story and basement, 60 x 110 ft. brick, plain foundation, to A. J. Gagnier, 1537 Main St., Springfield.

Conn., Bridgeport — BANK — City Natl. Bank, 12 story, 60 x 150 ft., brick and steel, Main and John Sts. to Dwight P. Robinson & Co., 125 East 46th St., New York Ctiy. Archts. est. $800,000. Noted July 14.

Conn., Bridgeport—HOSPITAL—Hospital Dept., W. H. Holsey, supt., altering and constructing 3 story and basement, 200 x 210 ft., brick, plain foundation, to T. Stewart, 64 Ashley St. Noted July 7.

Conn., Middletown—OFFICE — Middlesex Mutual Assurance Co., c/o E. B. Caldwell, Jr., archt., 886 Main St., Bridgeport, 2 story, 60 x 72 ft., brick, steel and marble, to H. Wales Lines Co., 134 State St., Meriden, Archts. est. $150,000.

N. Y., New York—APARTMENT—Marcus Brown Construction Co., 171 West 79th St., will build 15 story, 100 x 100 ft., brick and steel, concrete foundation, 113-121 East 86th St. Work will be done by separate contracts. G. F. Pelham, 570 7th Ave., archt.

N. Y., New York—APARTMENT—F. Willetts, 280 Madison Ave., 13 story and basement, 100 x 100 ft., 90th St. and Madison Ave. to Willetts Constr. Co., 114 East 32nd St.

N. Y., New York—OFFICE and STORE—General Society of Mechanics & Tradesmen, 7 story, 27 x 98 ft., brick and steel, concrete foundation, 239 Broadway, to J. Schlesinger Inc., 110 West 40th St. $300,000.

N. Y., New York—CLUB—New York Athletic Club, 58 West 59th St., 20 story and basement, brick and steel, 7th Ave. from 58th to 59th Sts. to C. T. Wills Inc., 286 5th Ave. Archts. est. $4,800,000. Noted July 7.

N. Y., New York—OFFICE—A. E. Lefcourt, 1357 Broadway, will build 31 story, 100 x 150 ft., brick, stone, and steel, Broad and Beaver Sts., $5,000,000. Work will be done by day labor. Buchman & Kahn, 49 West 45th St., archts.

N. J., East Orange — APARTMENT — Kanter & Cohen, c/o L. Kasoff, archt., 164 Market St., Newark, will build 4 story and basement, 75 x 100 ft., brick and steel, plain foundation, Glenwood Ave. and Essex St. $150,000. Work will be done by separate contracts. Noted Aug. 4.

N. J., East Orange—APARTMENT—Sharff & Koplowitz, 207 Market St., Newark, will build 4 story and basement, brick and steel, plain foundation, Arlington and Elmwood Aves. $240,000. Work will be done by separate contracts. Noted Aug. 4.

N. J., Elizabeth—BANK and OFFICE—R. C. Edwards, archt., 255 North Broad St., 2 story, 65 x 80 ft. brick and steel, plain foundation, Broad St. to C. Griffen, R.F.D. 1 Towley, for River Park Co. Natl. Bank, 60 Broad St. $150,000. Noted July 21.

N. J., Leonia—APARTMENT—Gerdin Realty Corp., Broad Ave., will build 5 story and basement, brick and steel, plain foundation, Broad and Christie Sts. $150,000. Work will be done by separate contracts. Private plans. Noted Aug. 4.

N. J., Newark—BANK—Hayes Circle Nat. Bank and Trust Co. c/o Necarsulmer & Lihlbach, archts., 420 Lexington Ave., New York City, 2 story, brick and steel, plain foundation, Hayes Circle here to L. D. Kilgus, 11 Coes Pl., Newark, N. J. $150 000. Noted July 7.

N. J., North Bergen (br. Weehawken)—APARTMENT and STORE—Woodcliffe Plumbing & Heating Supply Co., 39 18th St., West New York, will build 5 story and basement, brick and steel, plain foundation, Bergenline Ave. and 32nd St. here. $150,000. Work will be done by separate contracts. G. Willaredt, 411 23rd St., West New York, archt.

Pa., McKeesport—HOSPITAL—McKeesport Hospital, general contract 2 and 3 story and basement, irregular shaped addition, here, to P. L. Fleckenstein, 1300 Grandview Ave. Archts. est. $150,000.

Pa., Phila.—APARTMENT—P. J. Hannigan, Rising Sun Ave. and Roosevelt Blvd., 4 story and basement, 75 x 209 ft., brick and steel, plain foundation, here, to W. W. Anstine, Frankford Ave. and Oxford St. Archts. est. $225,000.

Pa., Phila.—DISPENSARY—Eaglesville Hospital & Sanatorium for Consumptives, c/o J. H. Loucherm, Franklin Trust Bldg., 2 story and basement, 50 x 72 ft., rein.-con.,

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Buildings—Commercial (Continued)

brick and steel, plain foundation, Broad and Fitzwater Sts., to P. M. Sax Constr. Eng. Co., Penfield Bldg. Total est. $150,000. Noted June 23.

Pa., Pittsburgh—APARTMENT—Development Corp. of America, Webster Hall, 3 story and basement, irregular shaped, brick and steel, Bayard St., to Peter A. Miller & Co., 900 Majestic Bldg., Detroit, Mich. Archts. est. $200,000.

O., Canton—HOSPITAL—Stark County County Tuberculosis Hospital, Court House, 2 and 3 story and basement to Melbourne Bros., 1220 9th St. N. E. $440,978. Engrs. est. $550,000.

Mich., Detroit—EXCHANGE—Michigan Bell Telephone Co., Cass Ave., 3 story and basement, 105 x 116 ft., rein.-con., brick and steel, plain foundation, Selden Ave., to A. W. Kutsche, 2211 Woodward Ave. Archts. est. $900,000. Noted June 23.

Mich., Detroit—THEATRE and OFFICE—Fox Washington Theatre, W. Schaffer, mgr., 1016 Washington Blvd., 10 story and basement, 200 x 325 ft., rein.-con., brick and steel, Woodward Ave., to G. C. Aronberg & Freid Co., 21 East 40th St., New York City, N. Y.

Ill., Chicago—APARTMENT—B. L. Steif & Co., archts., 307 North Michigan Ave., masonry, excavation, concrete, tile, waterproofing, etc. contract 16 story and basement, 87 x 100 ft., rein.-con., brick and terra cotta, 2-16 West Elm St., to A. Lindstrom, 77 West Washington St., for S. Cole, 307 North Michigan Ave. Archts. est. $550,000. Noted May 19.

Ill, Chicago—APARTMENT—C. V. Hatzfield, archt., 7 South Dearborn St., masonry and carpentry contract 5 story, 85 x 100 ft., brick, 1157-1165 Diversey Parkway, to C. E. Erickson & Magnusson, 4753 Bway.; plumbing and heating, to E. B. Kaiser, 625 Webster Ave., for E. Dirks, 1168 Diversey Ave. Archts. est. $385,000. Noted May 12.

Ill., Chicago — APARTMENT — Koeingsberg & Weisfeld, archts., 155 North Clark St., masonry and concrete contract 13 story, 50 x 150 ft., 1246 Pratt Blvd.; carpentry, to L. Nelson, 7106 Crandon Ave.; plumbing, to T. Litvin, 3306 Armitage Ave.; heating and refrigeration, to Krane Eng. Co., 1428 Orleans St. and plastering, to W. Brandenberg, 221 South Leavitt St., for Twelve-Hundred-Forty-Six Pratt Building Corp., c/o architects. Noted July 7.

Ill., Chicago — APARTMENT — Koeingsberg & Weisfeld, archts., 155 North Clark St., masonry and concrete contract 7 story, 50 x 135 ft., 5737 Kenmore Ave., to Complete Artificial Stone Co., 3310 Belmont Ave.; plumbing, to Noble & Thumm, 1065 Addison Ave.; heating, to W. F. Thumm, 2549 Lawrence Ave. Archts. est. $425,000. Noted Apr. 14.

Ill., Chicago—APARTMENT, STORE and GARAGE—Syndicate, incl. H. F. Knipp, 4802 Bway, et al., masonry contract 3 story, 47 x 115 ft., fireproof apartment and stores, also 2 story, 180 x 250 ft., rein.-con. garage, 3531-51 Bway., to Dahlberg & Sundrin, 6425 Washtenaw Ave. Archts. total est. $1,115,000.

Ill., Chicago—APARTMENT—F. Stanton, archt., 310 South Michigan Ave., masonry contract 3 story and basement, 75 x 135 ft. brick, 6317-21 Kenmore Ave., to Stronberg & Sedberg, 6312 Broadway Ave., for W. E. Eldrid, 6244 Winthrop Ave. Archts. est. $250,000. Noted Jan. 27.

Ill., Chicago—APARTMENT—Lake Shore Building Corp., 155 North Clark St., masonry contract 16 story, 94 x 174 ft., concrete, 3914-29 Lake Shore Dr., to E. Erickson & Co., 4763 Broadway Ave. Archts. est. $1,000,000.

Ill., Chicago—APARTMENT—Jonck & Elmann, archts., 140 South Dearborn St., archts., masonry contract Patrician Annex, 17 story rein.-con., brick and terra cotta, 405 Fullerton Ave., to Shellberg Constr. Co., 6712 North Slark St.; plumbing and heating, to Nilson Bros., 3222 Norfth Halsted St., for W. L. Wallen & Sons, 6712 North Clark St.

Ill., Chicago—HOTEL—Linbold & Carlson, archts., 155 North Clark St., concrete contract 4 story and basement, 48 x 175 ft., brick, stone and terra cotta, plain foundation, 63rd St. and Troy Ave., to Person Constr. Co., 1551 East 75th St., for J. Robinovitz, c/o architects. Archts. est. $450,000. Noted Mar. 10.

Ill., Chicago—OFFICE—De Paul Educational Society, 94 East Randolph St., general contract 16 story and basement, 72 x 140 ft., rein.-con., brick, steel and stone, Lake St. and Garland Ave., to McLennan Constr. Co. 307 North Michigan Ave. Archts. total est. $2,000,000. Noted June 30.

Ill., Chicago — OFFICE — Holabird & Roche, archts., 104 South Michigan Ave., general contract Post Building, 19 story, basement and sub-basement, 60 x 150 ft., granite, cut stone, brick and terra cotta, 211-15 Wacker Dr., to McLennan Constr. Co., 307 North Michigan Blvd., for Chicago Evening Post, 12 South Market St. $3,150,000.

Ill., Chicago — OFFICE — Rissman & Hirschfield, archts., 228 North La Salle St., masonry and carpentry contract 24 story and basement, 72 x 140 ft., brick, steel and stone, 6373 South Water St., to Dilks Constr. Co., 160 North La Salle St., for Garland Court Bldg. Corp., c/o architects. Archts. est. $2,000,000.

Ill., Chicago—THEATRE, APARTMENT and STORE—H. Cutler, 2953 West Grand Ave., masonry contract 3 story, 125 x 175 ft., 4921-35 West Chicago Ave., to H. McHugh & Son, 840 West 70th St., carpentry contract, to Olsen Bros., 6901 Euclid Ave. Archts. est. $300,000.

Ill., Chicago—WAREHOUSE and BAKERY—Consumers Sanitary Coffee & Butter Co., 5000 South Halsted St., masonry, carpentry and reinforcing contract 3 story, 142 x 282 ft., warehouse and 3 story, 60 x 170 ft. bakery, 83rd St. and Vincennes Ave., to H. Erickson Co., 228 North La Salle St., Archts. total est. $1,000,000. Noted May 26.

Ill., Waukegan—HOTEL—N. K. Gibson, archt., 624 South Michigan Ave., masonry and carpentry contract 9 story and basement, 74 x 102 ft., rein.-con., brick and terra cotta, Washington and Utica Sts., here, to E. W. Sproul Co., 310 South Michigan Ave., Chicago; terra cotta, to Northwestern Terra Cotta Co., 2525 Clayburn Ave., Chicago; structural steel, to A. Bolters Sons Co., 53 West Jackson Blvd., Chicago; electrical work, to W. A. Carraco Electric Co., 609 South Dearborn St., Chicago. Noted June 19.

Wis., Wales—INFIRMARY—State Bd. Control, Madison, A. W. Bagley, secy., 3 story and part basement, 88 x 178 ft., rein.-con., stone and terra cotta, plain foundation, here, to M. M. Moen Co., Mason City, Ia. $145,765. Noted Dec. 2.

Wis., Waukesha—HOTEL—C. W. Nicol, archt., 310 South Michigan Ave., Chicago, Ill., general contract 5 story and basement, 94 x 110 ft. rein.-con., brick and stone, Park Pl., to R. L. Reisinger & Co., 466 Oakland Ave., Milwaukee, for Waukesha Community Hotel Co., 217 Harrison Ave., $250,000. Noted May 19.

Minn., Minneapolis — APARTMENT—J. J. Gruesner, c/o P. E. Crosier, archt., 915 New York Life Bldg., will build one unit 1 story and 2 units 2 story and basement, cut stone and brick, Garfield Ave. $150,000.

Minn., St. Paul—HOSPITAL—Childrens Hospital Assn., c/o W. H. Ramsey, 459 Lowry Bldg., general contract 4 story and basement, rein.-con., brick and stone, Pleasant Ave., to C. Skooglun, 502 Ryan Bldg., St. Paul. Approximately $250,000. Noted Dec. 9.

S. D., Rapid City—HOTEL—Oldefest & Williams, archts., 605 North Michigan Ave., Chicago, Ill., general contract Hotel Alice Johnson, 9 story, 75 x 140 ft., rein.-con., brick and stone, here, to H. Carlson Co., Sioux Falls. Noted July 7.

Mo., Glendale (mail Kirkwood)—CLUBHOUSE—Westwood Country Club, M. H. Tucker, secy., Lockwood Ave. and Berry Rd., Glendale, will build 2 story and basement, 60 x 350 x 400 ft., rein.-con. and rubble stone clubhouse, incl. 35 x 75 ft. swimming pool; 9 and 18 hole golf course, tennis courts, outdoor dance pavilion, etc., by day labor; also 4 mi. irrigation system, incl. 13 mi. drain tiling, under supervision of H. D. Paddock, 7116 Hugh Ave., Cleveland, O. $300,000. Maritz & Young, Inc., Chemical Bldg., St. Louis, archts.

Mo., St. Louis—AUTO SALES and SERVICE—Vesper Buick Auto Co., Grand and Lindell Blvds., 2 story and basement, 40 x 150 ft., rein.-con. and brick, 3900-12 West Pine Blvd. and 37 North Vandeventer St., to W. H. Smith Co., 110 North 7th St. Archts. est. $150,000.

Mo., St. Louis—MARKET and CIVIC CENTER—Bd. Pub. Serv., 208 City Hall, 1 and 2 story and basement, 62 x 148 ft., rein.-con., brick and stone, 7th and Soulard Sts., to A. H. Haeseler Bldg. & Contg. Co., Wainwright Bldg., $150,151. Noted June 30.

Mo., St. Louis — THEATRE — Sigoloff Bros., 1747 Park Ave., 1 story and basement, 46 x 143 ft., rein.-con., brick, cut stone and terra cotta, 18th St. and Park Ave., to G. Moeller, 3520 Itaska St. Cost withheld.

Calif., Los Angeles—APARTMENT—P. Elvad, 3428 Amesbury Rd., will build 4 story and basement, 50 x 112 ft., brick and steel, Delongpre Ave. $150,000. Work will be done by day labor.

Calif., Los Angeles—APARTMENT—Lolita Holding Corp., c/o Contrs., 10 story and basement, 60 x 110 ft., Frankland and Western Ave. to Shave Construction Co., Subway Terminal Bldg., $550,000.

Calif., Oakland — GARAGE and AUTO SALESROOM—E. C. Anthony Co., 2111 Webster St., 2 story and basement rein.-con., Harrison Ave. to Cahill Bros., 55 New Montgomery St., San Francisco, $150,000.

Calif., Santa Monica—HOSPITAL ADDITION—Santa Monica Hospital, 3 story and basement, rein.-con. addition, 16th St. and Arizona Ave. to L. J. Bristow Co., 16th St. and Colorado Ave. $160,000. Noted Mar. 10.

Buildings—Industrial

Proposed Work

Me., Kittery—REPAIR, SERVICE, STATION and GARAGE—A. F. Cook, rejected bids 1 story, rein.-con. plain foundation, garage, $40,000. Dow, Harlow & Kimball, 184 Boylston St., Boston, Mass., archts. Noted July 6.

Mass., Boston — MANUFACTURING — Meisel Press Mfg. Co., Dorchester Ave., having revised plans prepared by H. S. Cleverdon, 46 Cornhill, Boston, 1 and 2 story, 100 x 225 ft., brick, plain foundation, Dorchester Ave. To exceed $40,000. Former bids rejected. Noted July 21.

Conn., Bridgeport—REPAIR and SALES GARAGE—F. L. Mills Co., 2316 Fairfield Ave. having plans prepared by Fletcher-Thompson Inc., 542 Fairfield Ave. 1 story, 100 x 200 ft., brick and steel, Dewey St. $100,000.

N. J., Jersey City—CHEMICAL PLANT—E. M. Paterson, archt., 76 Montgomery St., soon lets contract 2 story, 100 x 200 ft., brick and steel, plain foundation, Warren, Essex and Morris Sts., here, for Richards Chemical Wks., 190 Warren St. $100,000.

Pa., Phila—MANUFACTURING — Otis Elevator Co., 16th and Sansom Sts., having plans prepared by W. O. Moyer, 260 11th Ave., New York City, 3 story and basement, 60 x 162 ft., 19th and Buttonwood Sts.

W. Va., Charleston — WAREHOUSE — Woodrum Home Outfitting Co. having plans prepared by C. A. Haviland, 3 story, 140 x 170 ft. brick, 6th Ave. $100,000.

La., Shreveport—EXTRACTION PLANT—Natl. Gas Products Co. having plans prepared natural gas extraction plant. $150,000 incl. machinery. Private plans.

Tenn., Chattanooga—MILL—Dixie Mercerizing Mills, Watkins St., having plans prepared by Pringle & Smith, 1012 Morris Bldg., Atlanta, Ga., 2 story, 60 x 160 ft., rein.-con. addition, here. $50,000. Noted May 5.

O., Alliance—GARAGE—A. H. Althouse, Salem, plans 2 story and basement, 94 x 120 ft., rein.-con., brick and steel, East Columbus St., here. $50,000.

O., Canal Fulton—FOUNDRY—Fulton Drop Forge Co. soon takes bids 2 story foundry recently destroyed by fire. $40,000.

O., Cleveland—FACTORY—Menk Bros. Damp Wash Laundry, C. G. Menk, mgr., 643 East 103rd St., having preliminary plans prepared by H. M. Morse & Co., Finance Bldg., altering and constructing brick and steel additions, 643 E. 103rd St. $40,000.

O., Cleveland—WAREHOUSE, FACTORY, and BOILER HOUSE—Great Western Oil Co., B. W. Browne, pres., 2846 East 37th St., had plans prepared by F. F. Hodges, Hickox Bldg., 1 and 2 story, 60 x 180 ft., 24 x 40 ft., and 22 x 33 ft., brick and steel, East 37th St. $100,000.

O., Hamilton — FACTORY — Hamilton Casting & Mfg. Co., J. Weigel, pres., had plans prepared 1 story, 54 x 216 ft., brick and concrete addition. $30,000. Private plans.

O., Lancaster—FACTORY — Lancaster Tire & Rubber Co., W. W. Hunt, mgr. Sole and Heel Dept., Gugle Bldg. having sketches made, 1 story and basement, 50 x 75 ft., brick and concrete addition. $50,000. Private plans.

O., Middletown—MILL—Amer. Rolling Mill Co., G. M. Verity, pres., plans several mill buildings. $200,000.

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Buildings—Industrial (Continued)

O., Zanesville—POTTERY—S. A. Meller Art Pottery Co., H. Meller, Pres., plans 2 story brick and steel pottery to replace fire loss. $200,000.

Ind., Ligonier—FACTORY—Ligonier Refrigerator Co. having plans prepared by A. M. Strauss, 415 Cal-Wayne Bldg., Ft. Wayne, 3 story and basement, 50 x 95 ft., rein.-con., brick and steel factory. $150,000.

Mich., Muskegon—NEWSPAPER PLANT—A. Kahn, Inc., archts. and engrs., 1000 Marquette Bldg., Detroit, soon take bids 2 story, 56 x 146 ft., brick, concrete and stone, 3rd and Clay Sts., here, for Booth Publishing Co., 2500 Buhl Bldg., Detroit. $150,000. Noted Dec. 2.

Ill., Chicago—PAPER PLANT and WAREHOUSE—R. Gair Co., 420 E. North Water St., having plans prepared by C. R. Engal, 420 E. North Water St., 2 story, 175 x 201 ft., brick, E. North Water St. $200,000.

Wis., Janesville — FACTORY — Hough Shade Corp., 1023 South Jackson St., having plans prepared by Flad & Moulton, 110 East Washington Ave., Madison, 2 story and basement, 80 x 80 ft., rein.-con., brick and steel, plain foundation. $40,000.

Wis., Kewaunee — FACTORY — Leyse Aluminum Co., A. Leyse, mgr., having plans prepared 2 story and basement, 56 x 97 ft. rein.-con., brick and steel factory unit, plain foundation. $40,000. Private plans.

Wis., Milwaukee—BAG FACTORY—Velguth & Popenthien, archts., 141 East Wisconsin Ave., soon lets contract 3 story, 100 x 175 ft., brick and steel plain foundation, 18th St. and St. Paul Ave., for Fredman Bag Co., 311 Bway.

Wis., Milwaukee — FACTORY — Allen-Bradley Co., H. L. Bradley, vice-pres., 286 Greenfield Ave., had plans prepared by F. Scott, 214 Mason St., 9 story, 50 x 150 ft. factory and 1 story, 10 x 42 ft. shipping room and 5 story top addition to main shop. $200,000.

Wis., Milwaukee — LAUNDRY — South Side West Wash Laundry, Inc., 641 15th Ave., having plans prepared by A. H. Kienapple, 455 Milwaukee St., 1 and 2 story, 120 x 217 ft., brick, steel and artificial stone, plain foundation, Muskego Ave. $100,000.

Wis., Sheboygan — FACTORY — E. A. Juul, archt., Security Natl. Bldg., preparing plans 4 story, 60 x 210 ft., rein.-con., brick and steel, plain foundation. $50,000. Owner's name withheld.

Wis., Wisconsin Rapids—FACTORY—Prentice-Weber Co., 1430 2nd St. N., plans 1 story and basement, 50 x 200 ft., rein.-con., brick and steel, plain foundation. $50,000. Engineer and architect not selected.

Ia., Iowa City—HEATING PLANT—State Bd. Educ., W. H. Gemmill, secy., Des Moines, had plans prepared by Proudfoot, Bird & Souers, 810 Hubbell Bldg., Des Moines, 1 story, rein.-con. and brick addition. $160,000.

Minn., Minneapolis — LAUNDRY—Waldron, Inc., M. B. Waldron, pres., 1028 La Salle Ave., having plans prepared by Long & Thorshov, 1028 Andrus Bldg., 2 story and basement, 91 x 115 ft., main building and 2 story and basement, 40 x 52 ft., cleaning and dyeing building, both rein.-con., brick and kosota stone, 24th St. and Lyndale Ave., S. $150,000.

Kan., Topeka — BAKERY — General Bakeries Co., 342 Madison Ave., New York City, N. Y., having plans prepared by Archer & Floyd, 916 Pioneer Trust Bldg., Kansas City, Mo., and soon takes bids 1 and 2 story and basement, rein.-con. and brick bakery, here.

Mo., Bridgeton—AIRPLANE FACTORY—Robertson Aircraft Corp., St. Louis Flying Field, making preliminary plans rein.-con. and brick factory.

Mo., California—POWER and PUMP HOUSE—City plans power and pump house. Engineer and architect selected soon.

Mo., Joplin—ORE MILL—H. T. Moss, Lathrop Bldg., Kansas City, plans ore mill.

Mo., Kansas City—DRUG MANUFACTURING—C. A. Dean, archt., 506 Reliance Bldg., rejected bids 1 and 2 story and basement, 35 x 136 ft. and 50 x 136 ft., rein.-con., brick and steel, drug manufacturing plant, here. Owner's name withheld.

Mo., St. Louis—CANDY FACTORY—Natl. Candy Co., 208 North Bway., takes bids about Aug. 25, 5 story and basement, approximately 225,000 sq.ft. floor space, rein.-con. and brick factory, incl. refrigeration plant, Gravois and Bingham Sts. on Missouri Pacific R.R. $1,000,000. Klipstein & Rathman, 316 North 8th St., archts. Noted June 2.

Mo., St. Louis—CEMENT PLANT—Missouri Portland Cement Co., 1010 Pine St., takes bids about Sept. 1, 1 and 2 story quick hardening building; 40 x 409 ft. kiln; 80 x 160 ft. each raw materials and clinker buildings; 50 x 80 ft. coal building; and 40 x 40 ft. transformer house and substation; also three batteries of silos and stack caisson with 220 ft. stack, 22 ft. diam. at base, all rein.-con., steel and corrugated asbestos siding and roofs, etc. Approximately $2,000,000. Grading work awarded to Fruin-Colnon Contg. Co., Merchants Laclede Bldg.

Ark., El Dorado—GARAGE, etc.—Griffin Brothers, soon takes bids 1 story and basement, 80 x 400 ft., rein.-con. and brick, concrete foundation, here. $140,000. Former bids rejected. C. L. Thompson, Home Insurance Bldg., Little Rock, archt.

Texas—COLD STORAGE PLANT—C. W. Napier, c/o Travis Bldg., San Antonio, having plans prepared cold storage plant at Donna, and one at San Benito, both 1 story, brick, iron and timber. $40,000 each. Private plans.

Tex., Amarillo — BRICK and TILE PLANT—Pan-Tex Clay Products Co., Casper, Wyo., having plans prepared brick and tile plant, here. $75,000. Private plans.

Tex., Amarillo—GASOLINE PLANT—Phillips Petroleum Co., having plans prepared for Sanford Plant, 40 million cu.ft. gas per day capacity, south of Canadian River. $250,000 incl. machinery. Private plans.

Tex., Amarillo — FACTORY — Amarillo Clay Products Co., c/o H. Knepper, pres., soon takes bids factory. $150,000.

Tex., Amarillo — REFINERY — Texarillo Refining Co., Amarillo, making plans oil refinery plant, etc. near here. $200,000. Private plans.

Tex., Belton—COTTON GIN PLANT—Texas Farm Bureau Cotton Assn., c/o C. Duke, Belton, made plans modern cotton gin plant, 75 bale daily capacity, brick and corrugated iron. $40,000. Private plans.

Tex., Colorado—COTTON COMPRESS—J. Guiter, having plans prepared 60,000 bale cotton compress. $125,000. Work may be done by day labor. Private plans. Noted May 12.

Tex., Dallas—INDUSTRIAL—Presto-Lite Co., 30 East 42nd St., New York City, N. Y., purchased site and plans two 2 and 3 story industrial buildings. $200,000. Engineer and architect not selected.

Tex., Fort Davis—POWER PLANT—Central Power & Light Co., c/o Frost Bldg., San Antonio, plans power plant, here. $80,000 incl. equipment. Private plans.

Tex., Galveston — WIRE and NAIL PLANT—C. S. Porter, 1115 35th St., having preliminary plans prepared wire and nail plant. $45,000 or more. Private plans.

Tex., Mission—LAUNDRY—G. W. Caldwell, Chickasha, Okla., purchased site and plans 2 story, brick and concrete, here. $50,000. Engineer and architect selected soon.

Tex., Nacogdoches—BRICK PLANT—A. W. O'Hara and F. R. Coveret, purchased site and making preliminary plans 100,000 per day capacity brick plant. $80,000. Private plans.

Tex., Panhandle—GASOLINE PLANT—Skelly Oil Co., Skelly Bldg., Tulsa, Okla. soon takes bids plant on 12,500 acre site, near here. $150,000. Private plans.

Tex., Petersburg—ELECTRIC LIGHT & POWER PLANT—B. C. Dunlap, Throckmorton, having plans, etc. prepared electric light and power plant, here. $60,000. Private plans.

Tex., San Antonio—CREAMERY—R. W. Alford, c/o Thorain Apts., having plans prepared by Phelps & DeWees, 718 Gunter Bldg., 2 story, 78 x 90 ft., rein.-con. brick and tile, plain foundation, 1,000 Blk. S. Presa. $60,000. Noted July 14.

Tex., San Antonio—REFINERY PLANT—Humble Oil & Fuel Co., and Humble Pipe Line Co., Houston, having plans prepared refinery plant on Frio City Rd. $300,000; also oil pipe line to plant to radiate from company's line running from Reagan fields to Port Ingleside, $250,000. Private plans.

Tex., Shamrock—POWER PLANT—Central Power & Light Co., c/o Frost Bldg., San Antonio, had plans prepared power plant, 800 hp. capacity, here. $40,000. Private plans.

Colo., Pueblo—PIPE FOUNDRY—Colorado Fuel & Iron Co., E. H. Weitzel, genl. mgr. plans pipe foundry, at Minnequa plant. $1,000,000 F. L. Lindemuth, ch. engr.

Wash., Kelso—PAPER PLANT—Kelso Paper Co. plans pulp plant. Address P. J. Gallagher, Bedell Bldg., Portland, Ore.

Wash., Port Townsend—KRAFT PAPER MILL—National Paper Products Co., 1789 Montgomery St., San Francisco, Calif., having plans prepared by V. D. Simons, engr., 431 North Michigan Ave., Chicago, Ill., 75 ton, 180 x 850 ft. kraft paper mill, incl. boiler and chemical plants, screening and heater, machine and warehouse buildings, here. $2,500,000 to $3,000,000.

Calif., Alhambra — FOUNDRY — Kay-Brunner Steel Casting Co., Glendale, purchased site and plane foundry, here.

Calif., Los Angeles—FACTORY—Firestone Rubber Co., South Main St., Akron, O., plans factory on 40 acre site here. $1,000,000. Engineer and architect not selected.

Calif., Los Angeles—PLANT—California Corrugated Culvert Co., 5th and Parker Sts., Berkeley, purchased site and plans 70 x 200 ft. steel plant, and 40 x 65 ft. office building, etc., Laguna-Maywood Industrial tract, here. $250,000.

Calif., Palermo—PACKING PLANT—Palermo Grove Co., plans 1 story, 80 x 100 ft. addition.

Calif., San Francisco—MARBLE PLANT—Vermont Marble Co. 244 Brannan St., E. C. Porter, mgr., plans marble plant, 3rd St. To exceed $40,000.

B. C., Nanaimo—SAW MILL—Nanaimo Lumber Co. Ltd., soon takes bids lumber mill, 100,000 ft. capacity daily. $75,000. Noted June 2.

Ont., Hamilton— FOUNDRY — Canadian Westinghouse Co., Sanford Ave., having plans prepared by B. H. Prack, 42 James St., N., 1 story 60 x 200 ft., brass foundry at Aberdeen Ave. $50,000.

Bids Desired

Mass., Boston — MANUFACTURING — Aug. 15, by Meisel Press Mfg. Co., Dorchester Ave., 1 and 2 story, 100 x 225 ft., brick, plain foundation, Dorchester and Crescent Aves. To exceed $40,000. Former bids rejected. Noted July 21.

Mass., Somerville (br. Boston)—BOILER HOUSE and HEATING PLANT—Aug. 15, by F. I. Cooper Corp., archt., 172 Tremont St., boiler house and heating plant in Highland Ave. School, for City. To exceed $40,000.

R. I., Providence—PLANT—See "Contracts Awarded."

N. Y., Raybrook—POWER HOUSE—Sept. 1, by Supt. Standards and Purchase, Div. Standards and Purchase, Executive Dept., Albany, power house at New York State Hospital for Treatment of Incipient Pulmonary Tuberculosis, here. S. W. Jones, Capitol, Albany, state archt.; adv. E. N.-R. Aug. 11. Noted May 12.

Pa., Phila. — FACTORY and WAREHOUSE—Aug. 12, by J. G. Lorenz Corp., 1011 Chestnut St., 1 and 2 story, 50 x 268 ft., 40 x 97 ft., 33 x 97 ft. and 33 x 32 ft., rein.-con. and brick, plain foundation, 33rd and Reed Sts. $100,000. Private plans.

Md., Vienna—POWER PLANT—Aug. 15 by Day & Zimmerman, constr. engrs., 1600 Walnut St., Philadelphia, Pa., 62 x 132 ft., brick and steel, concrete pile foundation, here, for Delmarva Power Electric Co., Vienna.

Tex., Belton—COTTON GIN PLANT—Bell Co. Farm Bureau Cotton Assn., c/o M. H. Casey, taking bids 5 stand, 80 saw capacity, crude oil or electrically operated cotton gin. Private plans.

Calif., Oakland—DISTRIBUTION PLANT—Mutual Creamery Co., 425 East 14th St., taking bids 2 story, brick, distribution plant incl. refrigeration plant, conveyor system, etc., East 14th St. $350,000. Reed & Corlett, Bank of Savings Bldg., archts.

Calif., Oakland—PAINT FACTORY—See "Contracts Awarded."

Contracts Awarded

N. H., Hanover—GARAGE, REPAIR SHOP and BOWLING ALLEYS—F. B. Tenney, 1 story and basement, rein.-con., brick and steel, plain foundation, to A. E. Rich, Hanover. Archts. est. To exceed $50,000.

Vt., St. Johnsbury—FACTORY—Mantin-Gaulin Mfg. Co., 11 Elkins St., South Boston, Mass., 1 and 2 story, factory and boiler house, Portland St., to J. M. Swan & Son, Inc., 144 Portland St. Archts est. $440,000. Noted Mar. 24.

Buildings—Industrial (Continued)

Mass., Boston—BOILER HOUSE etc.—City, Hospital Dept., altering and constructing 1 story brick and steel, addition, Albany St., to Rideout, Chandler & Joyce, 178 High St., $78,954. Noted June 30.

Mass., East Springfield—SILK MILL—Harris Silk Hosiery Co., E. W. Harris, pres., 2 story, brick, plain foundation, to Adams & Ruxton Constr. Co., 1387 Main St., Springfield. Archts. est. $40,000 or more.

Mass., Lynn—BOILER HOUSE, etc.—Agoos Leather Co., 146 Pleasant St., 1 story, rein.-con., and brick, plain foundation, 146 Boston St., to W. T. Dinneen Constr. Co., 23 Central Ave., Archts. est. $40,000.

Mass., Taunton—FACTORY—Chandler Oil Cloth Co., 102 Old Colony Ave., West Taunton, 1 story, 100 x 165 ft., brick and terra cotta, addition, plain foundation, to M. C. Tuttle Co., Park Sq. Bldg., Boston.

Mass., Waltham (Ind. br. Boston)—GARAGE, SHOW ROOM and REPAIR SHOP—J. W. Gardner, Brookfield Rd. Waverley, 1 story, rein.-con. steel, plain foundation, to P. B. Meisner, 323 Auburndale Ave., Auburndale. Archts est. $40,000. Noted July 21.

R. I., East Providence (br. Providence)—PLANT—Rumford Chemical Co., 1 unit 1 story, 73 x 260 ft., brick, and connected with 5 story 100 x 220 ft. to Aberthaw Co., 80 Federal St., Boston, Mass.

R. I., Providence — PLANT — Flynn's Towel Supply Co., 9 Doyle Ave., will build 1 and 2 story, brick laundry and boiler house, plain foundation, Doyle Ave. and Scott St., by day labor. $150,000 or more. W. G. Richards, 11 Westminster St., archt.

N. Y., Port Ivory (sta. Staten Island)—Procter & Gamble Co., 4 story, 32 x 96 ft., brick and steel, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O. Archts. est. $50,000.

N. Y., Queens — BAKERY — Atlantic Warehouses, Inc., (Great A. & P. Tea Co.) 5 story, 77 x 100 ft. rein.-con., Decatur St. and Myrtle Ave., to Turner Construction Co., 420 Lexington Ave., New York City.

Pa., Johnstown—FACTORY—Penn Machine Co., Station St., general contract 2 story, 40 x 120 ft., brick, steel and concrete, Station St., to Wilson Constr. Co., Johnstown Trust Bldg. Archts. est. $40,000.

O., Cleveland — WAREHOUSE — Great Western Oil Co., 2846 East 37th St., B. W. Brown, pres., general contract 3 story, 60 x 180 ft., brick and steel warehouse here, to H. K. Ferguson Co., 4900 Euclid Ave., Archts. est $50,000. Noted Aug. 4

Ill., Chicago — FACTORY — Fleichmann Co., 2655 West 19th St., masonry and carpentry contract 3 story, 66 x 125 ft., brick, 4801-25 South Oakley Ave., to H. W. Greene Constr. Co., 9 South Clinton Ave. Archts. est. $200,000.

Ill., Chicago—FACTORY—A. E. Strobel, archt., 53 West Jackson Blvd., 1 story, 150 x 150 ft., brick, 69th St. and South Chicago Ave., to Chicago Industrial Constr. Co., 53 West Jackson Blvd., for Edward Holt Co., 6836 South Chicago Ave. Archts. est. $50,000.

Wis., Milwaukee—GARAGE—North Side Building Co., Milwaukee, 3 story, 50 x 150 ft., rein.-con brick, terra cotta and artificial stone, plain foundation, 3rd and Chambers Sts., to E. C. Knuth, Fond du Lac Ave. $50,000.

Ia., Cedar Rapids—SUGAR FACTORY—Penick & Ford, 2 story and basement, 100 x 163 ft. rein.-con., brick and stone addition, plain foundation, to Lightner Bros., 94 2nd Ave., $68,000.

Kan., Newton—PUBLISHING PLANT—Kansas Republican c/o J. C. Mack, for 2 story and basement, 66 x 100 ft., rein.-con., and brick, to M. R. Stauffer, Newton. Noted May 5.

Mo., Kansas City—PRINTING PLANT—Smith-Grieves Printing Co., 716 Baltimore St., 2 story and basement, 60 x 120 ft., rein.-con. and brick, 17th and Washington Sts., to Londsdale Bros., Bryant Bldg. Archts. est. $60,000.

Mo., Kansas City—AWNING FACTORY—Pioneer Trust Co., Pioneer Trust Bldg., 3 story and part basement, rein.-con. brick and terra cotta, 23rd and McGee Sts., to A. J. Rector, Pioneer Trust Bldg. Broadway Baker & Lockwood Mfg. Co., lessee.

Mo., St. Louis—CAR ICING PLANT—Polar Wave Ice & Fuel Co., 3638 Olive St., 1 story, 50 x 600 ft., rein.-con. and brick plant, Rutger St. at wharf, to Fruin-Conlon Contg. Co., Merchants-Laclede Natl. Bank Bldg. Archts. est. $75,000.

Ark., Clarksville—POWER PLANT—Bd. Comrs. Electric Light Improvement Dist. 2, rein.-con. brick power plant, incl. 4 cycle Diesel oil engine, Westinghouse generator and switchboard and centrifugal pumps, etc. to Worthington Pump & Machinery Corp., Laclede Gas Bldg., St. Louis, Mo. Approximately $86,000.

Okla., Ponca City—POWER PLANT—C. E. Norton, city clk., new power house building, hot well, salt house room, cooling tower and fuel oil reservoir, to Interstate Constr. Co., 5703 Rockhill St., Kansas City, Mo., $123,960. Archts. est. $150,000. Noted July 7.

Calif., Alhambra—FOUNDRY and MACHINE SHOP—Reliance Mfg. Co., 1020 South Bway., Pasadena, 1 story, 115 x 180 ft. and 1 story, 60 x 200 ft., brick and steel, Meridian Ave. here to Union Iron Works, 5125 Santa Fe Ave., Los Angeles, $150,000. Noted Aug. 4.

Calif., Oakland—PAINT FACTORY—J. C. James, (owner and contractor) 2300 87th Ave., will build 1 story, brick paint factory, 88th Ave. and B. St. $40,000. Woolworth Paint Co., c/o owner, lessee.

Calif., Santa Ana—BAKING PLANT—Kilpatrick Baking Co., 1 and 2 story, 90 x 113 ft., brick and timber, North Main St. and Roe Dr. to Wm. Rohrbacker, 704 South Rose St. $50,000.

Buildings—Educational, Religious

Proposed Work

Vt., Morrisville—SCHOOL—Town, School Bd. having plans prepared by W. H. McLean, 88 Tremont St., Boston, Mass., 2 story and basement, 66 x 148 ft., rein.-con., brick and steel, plain foundation, $160,000.

R. I., Kingston—LIBRARY and AUDITORIUM—Rhode Island State College, A. Edwards, in charge, takes bids about Aug. 15, 1 and 2 story and basement, brick and stone, plain foundation. $150,000. Bigelow, Kent & Willard Co., Park Sq. Bldg., Boston, Mass., archts. Noted Feb. 24.

Conn., Meriden—NURSES HOME—C. P. Bradley, plans nurses home incl. laboratory, demonstration, reception and class room, $150,000. L. Hamilton, 22 Church St., archt.

Conn., Meriden—SCHOOL—St. Peter and St. Paul Parish, S. I. Burdikoff, 37 Bunker Ave., pastor, plans school and community center. $150,000. Engineer and architect not selected.

Conn., Storrs — SCIENCE — Connecticut Agricultural College having plans prepared by D. K. Perry, New Britain, 3 story brick, stone and terra cotta.

N. Y., Rochester—NURSES DORMITORY—Highland Hospital, C. W. Smith, chn. Bd. Directors, Belleville Dr., having plans prepared by S. Firestone, engr. and archt., 59 South Ave., nurses dormitory, Belleville Dr. $250,000.

Md., Baltimore — POLYTECHNIC SCHOOL—Mayor and City Council, City Hall, having plans prepared by C. M. Anderson, 9 East Pleasant St., 4 story, brick and stone school, here. $1,000,000. Engineer and architect not selected.

N. J., Garfield (br. Passaic)—HIGH SCHOOL—Bd. of Educ., Palisade Ave., having plans prepared by F. Perrone, Medland St., 3 story brick and steel, plain foundation. $150,000.

La., Shreveport—HIGH SCHOOL—Caddo Parish School Bd., takes bids in September, 2 story and basement, rein.-con., brick, stone and steel, junior high school near State Fair Grounds. $350,000. E. F. Neild, City Bank Bldg., archt. Noted Aug. 4.

O., Akron—CHURCH—Trinity Reformed Church, having plans prepared by J. C. Fullerton & Son, Uniontown, Pa., 2 story and basement, brick and stone church here. $175,000.

Ind., Indianapolis — COLLEGE — Butler College, J. W. Atherton, secy., 1104 Fletcher Trust Bldg., having plans prepared by F. S. Cannon, 21 Virginia Ave., 3 story, 208 x 340 ft., rein.-con., brick and steel, 16,000 seating capacity, incl. gymnasium and swimming pool, etc., at Fairview, here. $500.000.

Ind., Tell City—SCHOOL—School Comrs., M. P. Carr, pres., having plans prepared by C. L. Troutman, Amer. Trust Bldg., Evansville, 2 story and basement, 75 x 170 ft., brick, steel and stone incl. gymnasium and science laboratory, etc. $170,000.

Neb., Lincoln—DENTAL—University of Nebraska having plans prepared by Davis & Wilson, 525 South 13th St., 3 story and basement, 60 x 250 ft., brick and stone, plain foundation, here. $300,000.

Mo., Kansas City—NURSES' HOME—City had plans prepared and soon takes bids 5 story, rein.-con. and brick, 24th and Cherry Sts. $250,000. F. C. Gunn, 1108 Continental Bldg., archt. Noted Apr. 28.

Tex., Houston—CHURCH—Antioch Congregation c/o R. T. Andrews, 408 Milam, having plans prepared by C. C. Bugler, 207 Constr.-Ind. Bldg., Dallas, and takes bids about Aug. 20, 4 story, 80 x 140 ft., brick, $150,000.

Tex., Lubbock—ENGINEERING—Texas Technological College, c/o E. W. Provence, takes bids about Sept. 10, rein.-con., brick, steel and stone, $240,000. W. C. Hedrick, 1005 1st Natl. Bank Bldg., Ft. Worth, archt. Noted Aug. 4.

Ore., Corvallis — DORMITORY—Bennes & Herzog, archts., Chof. Com. Bldg., Portland, take bids about Jan. 1 (1st unit), rein.-con. and terra cotta dormitory on campus Agricultural College; here, for State. $250,000.

Ore., Portland—SCHOOL—School Dist. 1 takes bids about Aug 1. Polytechnic School for Girls, 3 story and basement, 175 x 280 ft. and 1 story, 50 x 73 ft. gymnasium, both rein.-con. and brick, plain foundation, Everett and East 26th Sts. $350,000. J. H. Keller, Worcester Bldg., engr. and archt. Noted July 14.

Calif., Beverly Hills—SCHOOL—Church of Good Shepherd, Santa Monica Blvd., having preliminary plans prepared by M. L. Barker, 1154 North Western Ave., Los Angeles, 2 story parochial school, Santa Monica Blvd. $150,000.

Calif., Los Angeles — TEMPLE and SCHOOL—Beth Israel Congregation having plans prepared by A. A. Weitzman, Hibernian Bldg., 100 x 300 ft. with 100 ft. dome, probably rein.-con., Centennial St. $300,000.

Calif., San Bernardino—HIGH SCHOOL—Bd. Educ. having plans prepared by E. K. Martin, Flemming Bldg., rein.-con., Highland Ave. west of E St. $150,000.

Calif., Upland—HIGH SCHOOL—Upland Junior High School Dist. having preliminary plans prepared by G. S. Wilson, Riverside, Junior High School, 2 story, rein.-con. $150,000.

Calif., Ventura—CHURCH—Union Presbyterian Church, having plans prepared by Austin & Ashley, Chamber of Commerce Bldg., Los Angeles, rein.-con. church, Hemlock and Santa Clara Sts., here. $150,000.

Bids Desired

N. H., Keene—SCHOOL—City, School Building Com. taking bids 2 story and basement, 55 x 130 ft., brick and stone, plain foundation, Park Ave. C. P. Hoyt, 8 Beacon St., Boston, Mass., archt.

Mass., Boston—COLLEGE—Aug. 16, by T. H. James Co., archt., 3 Park St., 5 story and basement, brick, plain foundation, Stuart, Warren and Carver Sts., for Burdett Business College. To exceed $150,000.

Mass., Southbridge—SCHOOL—Aug. 15 (extended date) by Town, W. G. Lamoureau, chn. com., 2 story and basement, 60 x 100 ft., brick and stone trade school, here. $150,000. M. A. Dyer Co., 1 Beacon St., Boston, archts.

R. I., North Providence (sta. Providence)—SCHOOL—Town, School Comn., taking bids two 2 story and 1 story, brick and stone, additions plain foundation, Fruit Hill Ave. and Allendale Dist. $150,000. W. R. Walker & Son, 49 Weybosset St., Providence, archts. Noted June 9.

N. Y., Rochester—SCHOOL—Aug. 25, by Bd. Educ., 13 Fitzhugh St. S., addition to Townson School 39, Midland Ave., between Pomeroy and Chapin Sts. $250,000.

N. Y., Syosset—CONVENT—Aug. 16, by E. G. Perrot, archt., 130 West 42nd St., New York City, 5 story, brick, steel and stone, here, for Sisters of Mercy, 273 Willoughby Ave., Brooklyn. $700,000. Boilers, pumps, stone, brick, roofing, etc.

Pa., Phila.—CONVENT—Aug. 16, by P. F. Getz, archt., Victory Bldg., 3 story and basement, 41 x 113 ft., steel and stone, plain foundation, Medary St., for St. Benedict Roman Catholic Church, Medary St.

D. C., Wash.—HIGH SCHOOL—Aug. 31, at District Bldg., extensible junior high

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Buildings—Educational, Religious (Cont.)

school building to replace Garnet-Ratterson School. adv. E. N.-R. Aug. 11. Noted Feb. 10.

Va., Charlottesville—MEDICAL SCHOOL and HOSPITAL—Aug. 16, by Coolidge, Shepley, Bulfinch & Abbott, archts., Ames Bldg., Boston, Mass., 2 story and basement, brick medical school and alterations to hospital, here, for University of Virginia. $150,000 or more.

Tex., San Angelo—COLLEGE—Sept. 6, by Bd. Educ., 2 story, rein.-con .and brick, plain foundation, $250,000. Phelps & De Wees, 718 Gunter Bldg., San Antonio, archts. Noted Aug. 4.

Calif., Gridley—HIGH SCHOOL—Sept. 1 by Trustees Union High School Dist., 2 story, brick high school for Gridley Union High School Dist. $150,000. Davis-Pearce Co., Grant and Weber Sts., Stockton, archt. Noted June 9.

Contracts Awarded

Mass., Arlington (br. Boston)—HIGH SCHOOL—Town, J. C. Bracket, general contract 2 story, 60 x 185 ft. and 1 story, 60 x 138 ft., brick and stone, plain foundations, Tufts St. to C. S. Henry & Co. Inc., 82 Devonshire St., Boston, $198,800; heating and ventilating to Underhill Heating & Ventilating Co., 171 Harrison Ave., Boston, $33,987. Noted July 21.

Mass., Belmont—CHURCH—Our Lady of Mercy, 399 Belmont St., 1 story and basement, brick and stone, plain foundation, Belmont St. and Oakley Rd. to Charles Logue Building Co., 18 Tremont St., Boston. Archts. est. $150,000. Noted June 30.

Mass., Bolton—CHURCH — Unitarian Church, J. W. Pardee, pastor, rebuilding 1 story and basement, brick, stone and steel, plain foundation, Main St., to C. H. Matthews, 5 High St., Hudson, Archts. est. $150,000. Noted Jan. 27.

Mass., Newton (br. Boston)—SCHOOL—City, E. O. Childs, mayor, City Hall, 2 story and basement, irregular shaped brick and stone, plain foundation, Ward St. and Waverly Ave. to Phandor Co., 18 Tremont St., Boston, $180,873. Noted June 2.

Mass., Worcester — CHURCH — Notre Dame Ascension Parish, T. O. Leary, pastor, 1 story, brick, stone and granite, Salem Ave., to J. J. Roberts, 4 Wall St. Archts. est. $250,000. Noted July 14.

R. I., Providence—SCHOOL—City, Public Building Dept., City Hall, 2 story and basement, brick, steel and concrete, Bridham St., to E. Turgeon, 36 Exchange St., $114,556. Noted July 28.

R. I., Providence—SCHOOL—St. Patricks Roman Catholic Church, M. F. Reddy, pastor, 2 story and basement, 135 x 145 ft., brick and stone, plain foundation, Smith and Coverly Sts. to J. Donatelli, 1352 Smith St. Archts. est. $175,000. Noted July 21.

Conn., Waterbury—SCHOOL—St. Margarets School, C. B. Brewster, pastor, 4 story, 80 x 188 ft., school, to Tracy Bros. Co., 52 Benedict St.

N. J., Fords—CHURCH and SCHOOL—Roman Catholic Church of our Lady of Peace, 3 story and basement, 60 x 100 ft. brick and steel, plain foundation to J. Karamonsky, Easton Ave., Carteret. $150,000. Noted July 7.

N. J., Ogdensburg—SCHOOL—Bd. of Educ., general contract 2 story and basement, 93 x 131 ft., brick and steel, plain foundation to Gilmore Bros., 678 Market St., Paterson. $99,358. Engrs. est. $150,000. Noted July 14.

N. J., Paterson—HOME—Old Ladies Home, 265 Totowa Ave., 2 story, brick and steel, plain foundation, 261-275 Totawa Ave. to J. W. Ferguson, 152 Market St. $150,000.

Pa., Johnstown—SCHOOL—School Dist., J. D. Rutledge, pres., general contract 3 story and basement, 120 x 200 ft., brick and steel addition, Woodvalle St., to Wilson Constr. Co., Inc., Johnstown $87,945. Archts. est. $175,000. Noted June 30.

Pa., New Castle — HIGH SCHOOLS — School Dist., general contract Junior High School, 2 and 3 story and basement, irregular shaped, brick, steel and concrete, here, to J. Clyde Gilfillan, New Castle, $418,333; heating, to W. N. Clark & Sons, New Castle, $80,000; and plumbing, to R. T. Withers & Sons, New Castle, $29,409; and general contract Senior High School, 3 story and basement addition, to A. Wishart & Son, Sharon. Archts. est. $250,000. Noted July 7.

Pa., Phila.—LABORATORIES—Stewardson & Page, archts., 315 South 15th St., 3 story, basement and sub-basement, 25 x 144 ft. and 53 x 244 ft., rein.-con., brick and steel, plain foundations, 34th and Spruce Sts., to J. Myers Sons Co., 5100 Lancaster Ave, for University of Pennsylvania, 34th and Spruce Sts. Noted July 14.

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Mich., Ann Arbor—ATHLETIC—University of Michigan, 1 story, 110 x 415 ft., rein.-con., brick and steel, plain foundation, Ferry Field, to Palmer Constr. Co., Grand Rapids Savings Bank, Grand Rapids. Archts. est. $675,000. Noted July 28.

Kan., Atchison — MONASTERY — St. Benedict Abbey, c/o Father Callistus, will build 2, 3, and 4 story and basement, 300x 528 ft. rein.-con., brick and stone here. Work will be done by separate contracts, under supervision of E. Breilmaier & Sons Co., archts., 425 East Water St., Milwaukee, Wis. $1,000,000. Noted Apr. 28.

Mo., University (St. Louis P. O.) — CHURCH and SUNDAY SCHOOL — La Beaume & Klein, archts., Compton Bldg., St. Louis, 1 and 2 story and basement, rein.-con., brick and stone, Delmar Blvd. and Overhill Dr., to Dickie Constr. Co., Syndicate Trust Bldg., St. Louis, for First Presbyterian Congregation, c/o T. B. Teasdale, chn., 5832 Cates Ave. Archts. est. $200,000. Noted May 19.

Okla., Goodwell—LABORATORY—State Board of Affairs, Capitol Bldg., Oklahoma City, general contract 3 story and basement, 68 x 176 ft., rein.-con. and brick, plain foundation, on campus, to Bailey & Burns, Norman, $109,500. Archts. est. $150,000.

Okla., Tishomingo—ADMINISTRATION—Board of Affairs, Capitol Bldg., Oklahoma City, 2 story and basement, 90 x 100 ft., rein.-con., and brick, plain foundation, on campus, to Bailey & Burns, Norman, for Southeast Agricultural College. $156,000. Archts. est. $170,000.

Ont., Kapluskasing—SCHOOL—S. S. 1, O'Brien Twp., general contract 2 story and basement, rein.-con., brick, steel and cut stone, plain foundation, here, to A. R. Holmes, Ltd., 6 Hayden St., Toronto; steam heating with ventilation to F. R. Gibson, Haileybury. Est. cost $150,000.

Federal Government Work

Proposed Work

Me., Bar Harbor—Altering—Spec. 5406—Bureau Yards & Docks, Navy Dept., Wash., D. C. plans altering buildings and appurtenances and constructing engine house at Naval Radio Station, here.

Mis Gulfport—Roads—U. S. Veterans Bureau, did not open bids on August 2. Grading, draining, etc. at U. S. Veterans Hospital 74, here. Work will be readvertised later. Noted July 14.

Missouri—Pile Dikes—U. S. Engineer Office, St. Louis rejected bids July 15, constructing pile dikes in Mississippi River at Hanging Dog Island, Ill., Crains Island, and Sister Island, Mo. Noted June 23.

Bids Desired

N. Y., Buffalo—Superstructure—Sept. 6, by U. S. Engineer Office, constructing concrete superstructure on Bird Island Pier, adv. E. N.-R. Aug. 11.

N. Y., St. George—Cylinders—Aug. 15, by Supt. Lighthouses, 250 steel cylinders, 88 cu.ft. capacity for transportation of compressed acetylene gas.

Pa., Tarentum—Post Office—Aug. 30, by Treas. Dept., at office Supervising Archt., Wash. D. C. constructing U. S. Post Office, here.

Ga., Augusta—Distribution System—Aug. 23, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing outside water sewer and steam distribution system at U. S. Veterans Hospital, 62, here.

Ala., Selma — Remodeling — Sept. 5, by Treas. Dept., at office Supervising Archt., Wash. D. C. remodeling U. S. Post Office, here.

Ill., Chicago—Remodeling—Aug. 22, by Treas. Dept., at office Supervising Archt., Wash., D. C. remodeling U. S. Post Office, here.

Ill., Great Lakes (mail Waukegan)—Heating Plant Equipment—Spec. 5405—Aug. 24, by Bureau Yards & Docks, Navy Dept., Wash. D. C. heating plant equipment for Naval Training Station, here. Noted Aug. 4.

Ark., Prescott—Entrance—Aug. 29, by Treas. Dept., at office Supervising Archt., Wash., D. C. constructing entrance steps, here.

Tex., Austin—Changes—Aug. 31, by Treas. Dept., at office ,Supervising Archt., Wash., D. C. attic changes, etc. at U. S. Post Office, here, adv. E. N.-R. Aug. 11.

New Mexico—Road—Aug. 16, by J. W. Johnson, dist. engr., Bureau Pub. Rds., Customhouse, Denver, Colo. grading and graveling 6.61 mi. Glenwood-Alma Sect., Datil Reserve-Dry Creek Natl. Forest Road Project, Catron Co.

Utah—Road—Aug. 31, by B. J. Finch, dist. engr., Bureau Pub. Rds., 403 Kiesel Bldg., Odgen, grading and graveling 5.02 mi. Sects. 1 and 2, East Rim Road Project, within Zion Natl. Park, Washington Co.

Calif., Livermore — Walks — Aug. 30, by U. S. Veterans Bureau, Wash., D. C., constructing walks, curbing and guttering at U. S. Veterans Hospital, 102, here.

Calif., San Diego—Boiler—Spec. 5345—Aug. 31, by Bureau Yards & Docks, Navy Dept., Wash. D. C. installing boiler at Navy Yard, here.

Bids Received

D. C., Wash—Power Plant Equipment—Spec. 5334—Bureau Yards & Docks, Navy Dept., Wash. D. C. July 27, power plant equipment for Naval Hospitals, here, from M. H. Pagenhardt & Co., 2130 Locust St., Phila., Pa. $17,964. Noted July 14.

N. C., Wilson—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C. July 29, constructing U. S. Post Office, here, from C. Weitz Sons, 713 Mulberry St., Des Moines, Ia. $160,306. Noted June 23.

O., Dayton—Distribution System—Constructing Quartermaster, Wright Field, installing underground electric distribution system, Wright Field, here, from R. A. Phelps, Dayton, $35,860. Noted June 30.

Contracts Awarded

Maine—Dredging—U. S. Engineer Office, Custom House, Boston, Mass. dredging in Saco River here to J. S. Packard Dredging Co., 1004 Turks Head Bldg., Providence, R. I., $38,830 and constructing breakwater and repairing jetty to P. H. Doyen Co., South Portland, $71,400. Noted May 28.

N. C., Charlotte—Extensions, etc.—Treas. Dept., at office Supervising Archt., Wash., D. C. extending mail vestibule and driveway at U. S. Post Office and Court House, here,.to H. L. Turner, Wash., D. C., $7,963.

S. C., Charleston—U. S. Engineer Office, extending North Customhouse pier to Hampton Constr. Co., Charleston, $12,943. Noted June 16.

Ky., Louisville—Boat Hulls—U. S. Engineer Office, 6 maneuver boat hulls and derricks Lots A and C to P. Jensen & Co., New Albany, Ind., $34,200 and Lot B to C. Hegeald Co., New Albany, Ind., $34,490. Noted June 16.

Ill., Great Lakes (br. Waukegan)—Improvements—Spec. 5404—Bureau Yards & Docks, Navy Dept., Wash., D. C. prison improvements, at Naval Training Station, here to Tobias Jones 623 North Ave., Waukegan, $12,963.

Minn., St. Paul—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C. remodeling U. S. Post Office, here, to G. J. Grant Contr. Co., 904 New York Bldg., $12,280. Noted July 7.

Missouri and Illinois—Pile Dikes—U. S. Engineer Office, St. Louis, concrete pile dikes in Mississippi River at Pulltight, Calleo Island and James Landing, Ill. to Frazier-Davis Constr. Co., Arcade Bldg., St. Louis, $76,445; at Schenimann, Mo. to W. P. McGeorge, Pine Bluff, Ark., $340,480; and in Greenfield Bend to Woods Bros. Constr. Co., 132 South 13th St., Lincoln, Neb., $132,500. Grand total $549,425. Noted June 23.

Ark., Dewitt—Levees—U. S. Engineers Office, Vicksburg, Miss., 725,000 cu.yd. levees, Dewitt, Desha Co., to Owen & Gaddis, 819 Gallatin St., Jackson, Miss. $232,000.

Tex., Houston—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here to M. T. Green, 609 North Akard St., Dallas, $9,564. Noted June 30.

Federal Government Work (Continued)

FEDERAL POWER COMMISSION

Application for License and Permits

Applications

811—Great Northern Co., 542 2nd Ave., St. Paul, Minn., wants license temporary constructed transmission line within Wenatchee Natl. Forest, Chelan Co.

812—Kansas Gold Co., 315 Railway Exchange Bldg., Seattle, Wash., wants license power project on Harris Creek, Alaska, within Tongass Natl. Forest.

813—Arizona Power Co., Inc., Prescott, Ariz., wants license transmission line partly in Prescott Natl. Forest and Fort Whipple Military reservation, in Yavapai Co.

814—Telluride Power Co., 1309 Walker Bank Bldg., Salt Lake City, Utah, wants license partly constructed power project within Fillmore Natl. Forest and partly on public lands on Beaver River, in Beaver Co.

815—Tuckee River Power Co., Reno, Nev., wants license transmission line partly within Tahoe Natl. Forest, Placer Co.

816—W. L. Huber, 1304 Crocker Natl. Natl. Bank Bldg., San Francisco, Calif., wants preliminary permit power project within Tahoe and El Dorado Natl. Forests, on North and Middle Forks, American River, in Placer and El Dorado counties.

817—West Virginia Power Co., Charleston, ton, W. Va., wants preliminary permit 2 power projects in connection with 2 proposed dams to replace existing Governmentment Dams 2, 3, 4 and 5, on Kanawha River, Kanawha Co.

818—American River Water & Power Co., Auburn, Calif., wants preliminary permit power project, partly within Tahoe Natl. Forest, on North and Middle Forks, American River, in Placer Co.

819—Montana-Idaho Mines Corp., Winston, Mont., and Spokane, Wash., wants license power project partly within Helena Natl. Forest on North and South Forks of Beaver Creek, in Broadwater Co., Mont.

820—Eastern Oregon Development Co., Baker, Ore., wants license transmission line on public lands in Baker Co.

821—Libby, McNeil & Libby, Seattle, Wash., wants license power project in Tongass Natl. Forest, on Cascade and Rosa Creeks and Lower and Upper Lakes, on Gravina Island, Alaska, near Kenchikan.

822—Gold Basis Mining & Milling Co., Oakland, Calif., wants license power project in Tahoe Natl. Forest, on East Fork of North Fork of Yuba River, Sierra Co.

823—General Power & Light Co., 231 South LaSalle St., Chicago, Ill., wants license power project on Green River, in McLean Co., Kentucky, near Calhoun.

Unclassified

Proposed Work

Grain Elevator—Fitchburg, Mass.—J. Cushing Co. plans new grain elevator with equipment. $100,000. Engineer not selected.

Athletic Field—Meriden, Conn.—International Silver Co., Recreation Dept., State St. plans athletic field incl. baseball diamond, gridiron, tennis courts, cinder track and grandstand. To exceed $25,000. Private plans.

Asphalt Mixing Plant—Long Island City, N. Y. —M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rejected bids June 22, asphalt mixing plant with full equipment to Bureau Highways. Noted June 16.

Stadium—North Albany (mail Albany) **N. Y.**—Capital Dist. Baseball Assn., S. E. Aronowitz, secy., 100 State St., Albany, making plans steel and concrete stadium, Chadwick Park, here. $250,000. G. Thompson, 324 Montgomery St., Syracuse, engr. and archt.

Transmission Line — Texas — Central Power & Light Co., c/o Frost Bldg., San Antonio, making plans and soon take bids power transmission line from Kingsville to Falfurrias. $275,000. Private plans.

Gas Pipe Line—Amarillo, Tex.—Assoc. Producers Gasoline Co., 513 Rule Bldg., making plans and soon take bids improving system, incl. steel tanks and small pipe lines. $100,000. Private plans.

Land Development—Beaumont, Tex.—Gulf Building & Loan Co., c/o W. M. Clapp, pres., 2462 Calder St., having plans prepared 360 acre sub-division development, incl. natural gas distributing system $16,000, water system $35,000, sewers $25,000, paving $60,000 etc. Private plans.

Tank Farm—Pecos, Tex.—Mid-Kansas Oil & Gas Co. (subsidiary of Ohio Oil Co., Tulsa, Okla.), plans twenty-five 80,000 bbl. steel oil tanks on 770 acre farm in new Pecos field in Pecos Co., here. $750,000. Private plans.

Gas System—San Angelo, Tex.—Western Gas Serv. Co., c/o B. Carter, Ranger, making surveys gas system improvements, here. Private plans.

Land Development—San Antonio, Tex.—T. F. Ragsdale and associates, c/o C. Y. Bailey, Travis Bldg., purchased 56 acres land on Fredericksburg Rd., and plans paving $60,000, waterworks $20,000, and sewers $35,000. Private plans.

Oil Pipe Line—San Antonio, Tex.—See "Buildings—Industrial."

Transfer Shed—San Antonio, Tex.—Merchants Transfer Co., c/o F. Canaday, 215 Main Ave. soon take bids 100 x 260 ft. tile, rein.-con., sheet iron, etc. Nueva and Dolorosa Aves. $160,000. H. S. Green, Alamo, Natl. Bank Bldg., archt.

Grain Elevator—Kelso, Wash., Kelso Port Commission had plans prepared by J. S. Metcalf Co., Ltd., 111 West Jackson Blvd., and takes bids about Sept. 1, grain elevator. $416,000 bond voted. Noted Apr. 21.

Swimming Pool—Berkeley, Calif.—City, E. M. Hann, clk., plans 130 x 150 ft. swimming pool.

Lighting System—Culver City, Calif.—Plans ornamental lighting system on portions Wagner St., Barman Ave., etc. To exceed $25,000.

Lighting System—Los Angeles, Calif.—City, plans ornamental lighting system in portions of Genesee St., Ogden Dr., Orange Grove Ave., etc. To exceed $25,000.

Lighting System—Los Angeles, Calif.—See "Streets and Roads."

Parking Pier—Santa Monica, Calif.—Ocean Park Realty Corp., Ocean Park, had plans prepared by J. P. Verrine, Lincoln Bldg., Los Angeles, for pier, timber and creosoted piling, approximately 100,000 sq.ft. for auto packing, here. $150,000.

Bids Desired

Golf Course—Waterbury, Conn.—Waterbury Club, I. W. Day, 111 Main St., taking bids golf course and club house. To exceed $50,000. Parson & Waite, 1 Beacon St., Boston, archts. Noted Apr. 14.

Foundations—New York—See "Streets and Roads."

Subway—Brooklyn, N. Y.—Sept. 2, by Bd. Transportation, J. H. Delaney, chn. 49 Lafayette St., New York City constructing Sect. 1, Route 109, Rapid Transit R.R., extending along and under Jay St., from Nassau to Willoughby Sts., here.

Comfort Station—New York, N. Y.—Aug. 16, by Park Bd., W. Herrick, pres., Dept., Parks, Arsenal Bldg., Central Park, general construct comfort station in Washington Square Park.

Exit Facilities and Fire Stops—Rome, N. Y.—Aug. 24, by Comr. Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, exit facilities and fire stops at State School for Mental Defectives, here; adv. E. N.-R. Aug. 11.

Bath House and Pool—Wash., D. C.—Aug. 12, at Office Public Buildings & Parks, constructing bath house, beginners pool, and swmiming pool, McKinley High School Grounds, 1st and R Sts. N. E. Noted June 9.

Air Port—Paducah, Ky.—See "Contract Awarded."

Boiler Settings—St. Louis, Mo.—See "Waterworks."

Lighting System—Azusa, Calif.—Aug. 15, by H. R. Smith, city clk., ornamental lighting system in portions of Orange, Sunset Aves., etc. To exceed $25,000. C. L. Nichols, city engr.

Bids Received

Park Improvements—Ridgewood (br. Brooklyn), **N. Y.**—Park Bd. at office Dept. Park, Arsenal Bldg., Central Park, New York City, park improvements, at Anawanda Park, here, from M. J. Grant, 139 Potter Ave., Astoria, $19,465. Noted July 28.

Contracts Awarded

Coal Pocket—Fall River, Mass.—W. C. Arwater & Co., 2 Bedford St., 1 story, wood, plain foundation, to R. H. Beattie, 209 Bedford St. Engrs. est. $25,000.

Heating System—Worcester, Mass.—City, Supt. Public Bldgs. heating system in Downing St. school, to Central Heating Co., Worcester, $20,350.

Air Port—Paducah, Ky.—C. R. Iseman, (owner and contractor), will build air port, incl. grading, erecting hangers, gasoline filling and repair stations, etc., on Clarks-Ferry Rd., near here. Engrs. est. $50,000.

Tunnel and Approaches—Anderson' Ind.—County and Cleveland, Cincinnati, Chicago & St. Louis Ry., H. Baldwin, ch. engr., 230 East 9th St., Cincinnati, O., tunnel and approaches incl. 7,000 cu.yd. earth excav. to Herrick & Co., Cuyahoga Bldg., Cleveland, O. Approximately $87,000. Engrs. est. $90,000.

Grain Elevator—Omaha, Neb.—Missouri Pacific R.R. Co., E. A. Hadley, ch. engr., Ry. Exch. Bldg., St. Louis, Mo., constructing rein.-con. and steel addition to grain elevator, 15th and Anderson Sts., to E. Ahlskog Co., 6422 Kimlark St., Chicago, Ill. Nye & Jenk Grain Co., Grain Exch. Bldg., Omaha, Neb., lessee. Noted July 28.

Swimming Pool, Golf Course, etc.—Glendale (mail Kirkwood), **Mo.**—See "Buildings—Commercial."

Water Treating Plant—Hermann, Mo.—Missouri Pacific R.R. Co., Ry. Exch. Bldg., St. Louis, water treating plant incl. steel storage tank pump, etc., to Foundation Co. of Missouri, 1923 Main St., Kansas City.

Natural Gas System—Texas—Western Gas & Fuel Supply Co., Ranger, natural gas system in Ballinger, Winters, Miles, Rowena, Talpa, Valera, Silver City, also 76 mi. 8 in. gas main line from San Angelo to Silver City and other towns, to Atex Constr. Co., Eastland. Approximately $500,000 and $2,000,000 respectively.

Tank Farm—Del Rio, Tex.—Mid-Kansas Oil & Gas Co., c/o W. W. Fleming, Findlay, O., twenty-five 80,000 bbl. steel oil tanks, to Mount Cooper Boiler & Iron Wks., c/o owners, $750,000.

Lighting System — Huntington Park, Calif.—Ornamental lighting system on Pacific Blvd., to G. W. Kemper, 3701 South Overland Ave., Los Angeles, $75,935.

Lighting System—Los Angeles, Calif.—Ornamental lighting system on Cadillac Ave. between La Cienga and Robertson Blvds., to R. D. Caley, 4722-4th Ave., $76,165.

Lighting System—Los Angeles, Calif.—Ornamental lighting system on Pacific Ave. between 26th and Paseo Del Mar Sts., to A. C. Rice, 1957 Santee St., $34,821. Noted Apr. 7.

Lighting System—Los Angeles, Calif.—City, ornamental lighting system on 7th St., between Alvaredo St. and Garland Ave., to Los Angeles Electric Works, 1128 South Los Angeles St., $38,486.

Materials

Proposed Work

Cement—Merced, Calif.—P. J. Thornton, Co. Clk. and W. E. Bedesen, Shafer Bldg., Co. Surveyor, plans to purchase 6,500 bbls. portland cement.

Bids Desired

Guard Rail—Iowa—See "Streets and Roads."

Bridge Lumber—Maringo, Ia.—Aug. 19, at office Auditor Iowa Co., 5 cars 3 x 12 x 16 ft. and 1 car 3 x 12 x 20 ft. standard sawed rough fir lumber, and 1 car untreated cypress piling. W. W. Thorn, Marengo, co. engr.

Road Oil, etc.—Inglewood, Calif.—City, taking bids furnishing 2,700 bbl. road oil and 4,500 tons crushed rock.

Granite Blocks—Montreal, Que.—Aug. 15, by Chn. Executive Committee, City Hall, Montreal, Que., for 108,700 granite blocks.

Contracts Awarded

Culvert Pipe—Iowa—State Hy. Comn., Ames, 672 ft. 15 in. corrugated culvert pipe f.o.b. Moravia, Project P-496, Appanoose Co., and 796 ft. 15 and 36 in. f.o.b. Belmond, Project F-267, Wright Co., to Klauer Mfg. Co., Dubuque $591 and $591 respectively, 426 ft. 15 in. f.o.b. Hilton, Project F-482 Monroe Co. and 216 ft. 15- to 48- ft. f.o.b. Melrose, Project P-477, Monroe Co., to Central Culvert Co. Attumwa, $383 and $271 respectively. Grand total $1,838.

See proposal advertising on page 136

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Bridge—Portland, Ore.

Bids were opened by Commissioners of Multnomah Co., for two concrete viaducts on Canyon Road, from (A) Lindstrom & Feigenson, Worcester Bldg., (awarded contract); (B) A. D. Kern, 290 East Salmon St.; (C) Taylor Bros., Builders Exchange. The unit bids are as follows:

	A	B	C
500 cu.yd. common excavation	$1.00	$0.75	$0.90
1,000 cu.yd. loose rock excavation	2.00	1.00	.90
500 cu.yd. solid rock excavation	3.50	3.25	2.50
1,790 cu.yd. Class A concrete, 1:2:4 mix	16.00	18.00	17.00
160 cu.yd. Class D concrete, 1:2:3 mix	20.00	18.00	25.00
250,000 lb. reinforcing steel in place	.0375	.035	.04
2,100 lb. guard angles in place	.15	.09	.20
100 lin.ft. 3-in. porous drain tile in place	.30	.09	.30
Totals	$45,810	$47,048	$47,480

Engineering News-Record, Issue of Aug. 11, 1927

Bridge—Oakland, Calif.

Bids were opened by Commissioners of Alameda Co. (lowest three and highest) for constructing Mission Bridge over Calaveras River, from (A) Gutleben Bros., 614 Mills Bldg., San Francisco, (awarded contract); (B) C. B. Cowden; (C) W. M. Willett; (D) G. C. Vensano Co. The unit bids are as follows:

	A	B	C	D
3,200 yd. excav., below elev. 230	$5.25	$6.30	$5.00	$8.00
2,600 yd. excav., above elev. 230	2.45	.95	1.68	13.00
19,500 cu.yd. rdwy. excavation	.60	.63	.71	.70
34,000 sq.ft. 4 in. graveled rdwy	.05	.05	.06	.04
3,100 cu.yd. concrete in bridge	19.60	22.00	21.30	25.00
516,000 lb. reinforcing steel	.05	.045	.055	.051
2,000 lin.ft. guard fence	1.10	1.10	1.10	1.00
100 ft. 12-in. corrugated pipe	2.00	1.75	1.80	3.00
Totals	$127,918	$134,870	$134,882	$186,276

Engineering News-Record, Issue of Aug. 11, 1927

Bridge—Chicago, Ill.

Bids were opened by Department of Public Works, May 26, for east substructure of double leaf trunnion bascule bridge over South Branch of Chicago River on Roosevelt Road, from (A) FitzSimons & Connell Dredge & Dock Co., 10 South La Salle St., (awarded contract); (B) Central Dredging Co., 307 North Michigan Ave.; (C) Great Lakes Dredge & Dock Co., 104 South Michigan Ave. The unit bids are as follows:

	A	B	C
Removing all obstructions (lump sum)	$27,500.00	$38,350.00	$35,000.00
Shed for storage of cement (lump sum)	3,000.00	3,025.00	3,500.00
Building cofferdams (lump sum)	100,000.00	85,380.00	125,000.00
100 cu.yd. general excavation	5.00	8.00	5.00
100 cu.ft. removal of boulders	1.50	6.00	1.00
430 cu.ft. removal of solid limestone	1.50	7.00	1.00
10 cu.yd. removal of solid stone	20.00	38.75	15.00
20,700 cu.ft. complete sub piers	2.00	2.10	2.50
2,000 cu.yd. filling within cofferdam	3.00	1.60	2.50
800 cu.yd. 1:6 portland cem. concrete	22.00	25.50	22.00
1,400 cu.yd. 1:7½ portland cem. concrete	18.00	20.00	20.00
120 cu.yd. portland cement mortar	25.00	45.50	30.00
320,000 lb. steel reinforcing material	.06	.075	.07
160,000 lb. permanent fixed steel	.10	.12	.12
84,000 lb. structural steel beams	.09	.10	.12
11,100 lb. steel castings	.15	.12	.15
200 lb. cast iron manhole covers	.20	.10	.10
2 brass bell traps	30.00	30.00	25.00
30 safety treads	4.00	4.00	3.00
4,000 lin.ft. Norway pine piles delivered	.45	.40	.40
4,000 lin.ft. driving sundry piles	1.00	.40	.60
5,000 ft. b. m. creosoted oak timber in place	250.00	300.00	250.00
40,000 ft. b. m. untreated yellow pine timber in place	250.00	200.00	150.00
50 lin.ft. vitrified clay sewer pipe	8.00	9.00	10.00
Concrete in sub piers—air pressure, per cu.ft	15.00	15.00	1.00
Extra portland cement, per bag	1.00	1.00	.80
Totals	$287,290	$299,365	$335,885

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Bridge—Chicago, Ill.

Bids were opened by Department of Public Works, June 23, for superstructure of double leaf trunnion bascule bridge over South Branch of Chicago River on Roosevelt Road, from (A) Ketler-Elliott Co., 3121 South California Ave., (awarded contract); (B) Strobel Steel Construction Co., 53 West Jackson Blvd.; (C) Kelly-Atkinson Construction Co., 189 West Madison St. The unit bids are as follows:

	A	B	C
Superstructure, except sidewalks, operators' houses, enclosure walls, electrical equipment, plumbing and fixed part railings (lump sum)	$466,000.00	$477,580.00	$487,000.00
Horizontal truss and 2 inclined braces (lump sum	5,900.00	5,600.00	6,000.00
Material called for on drawing 10854 (lump sum	11,000.00	10,900.00	10,900.00
Additional carbon steel and rivets, per lb.	.12	.12	.10
Additional reinforcing metal, per lb.	.10	.15	.08
Additional forged or machinery steel, per lb	.30	.30	.25
Additional cast steel, per lb	.28	.30	.25
Additional machinery iron castings, per lb.	.28	.25	.25
Additional phosphor bronze and babbitt, per lb	1.50	1.00	1.25
Additional portland cement, per bag	1.00	1.00	1.00
Additional Atlas lumnite cement, per bag	3.50	3.25	3.00
Additional steel punchings, per lb	.02	.03	.02
Additional lead slag, coarse agg. No. 5, per cu.ft	1.00	2.00	.25
Additional plain concrete with 1:3 mortar, per cu.ft.	1.00	1.50	.75
Additional composition concrete—1:2 mortar, per cu.ft	3.00	2.00	2.50
Additional creosoted Y. P. or oak timber, per f.b.m	150.00	140.00	150.00
Additional untreated fir, per f.b.m.	125.00	110.00	125.00
Additional concrete not used for cwt., per cu.yd.	35.00	30.00	25.00
Totals	$482,900	$494,080	$503,900

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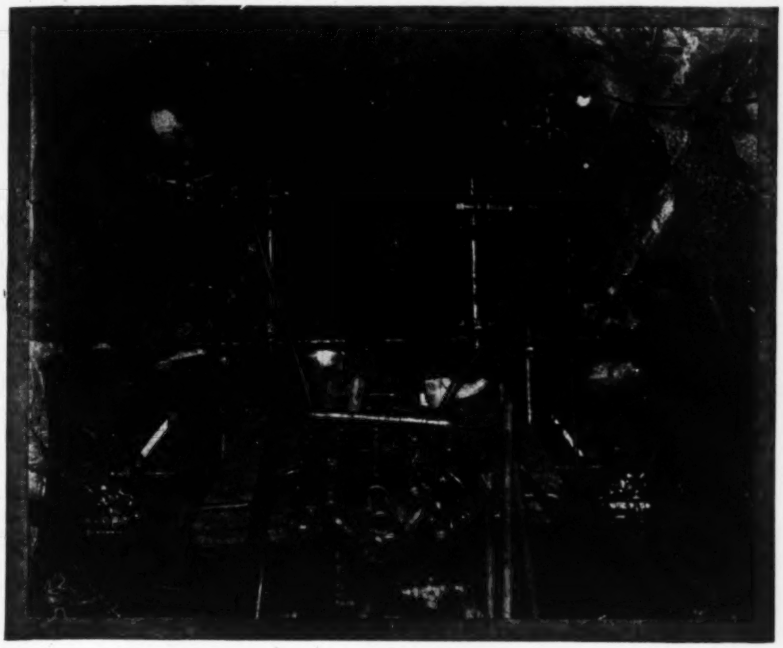
UNIT PRICES ***Continued on page 81a***

WAUGHDRIFTER



Waugh Model 17
Tunneling Drills
Mounted on
Special
Drill Carriage

Cascade Tunnel

The Leading Tunneling Drill

A Standing Record

In October, 1926, A. Guthrie and Company established a new world's record in tunnel driving on the Cascade Tunnel project, when they advanced an 8′ x 9′ tunnel heading 1157 feet, working from a single heading. Denver Model Seventeen drills, mounted as shown above, were used exclusively in establishing this record.

For all tunnel driving projects, and for all hard rock drilling in mining and quarrying operations, the Denver Model Seventeen is now recognized as the leading rock drill.

Because of its speed and power, and above all, because of its dependability, it has been selected on such notable projects as the Moffat, Chelan, Cascade, Hetch Hetchy, Milton Bowman, Conowingo, and many others.

It will pay you to investigate the performance of this fast dependable machine. Write for your copy of Bulletin No. 170.

ROCK
WAUGH
DRILLS

**THE DENVER ROCK DRILL
MANUFACTURING COMPANY
DENVER COLORADO**

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Bridge—Chicago, Ill.

Bids were opened by Department of Public Works, May 26, for west substructure of double leaf trunnion bascule bridge over South Branch of Chicago River on Roosevelt Road, from (A) M. E. White Co., 1735 Fullerton Ave.; (awarded contract); (B) Underground Construction Co., 135 North Wells St.; (C) Mid Continent Construction Co.; 6 North Michigan Ave.; (D) Fitz Simons & Connell Dredge & Dock Co., 10 South La Salle St.; (E) Chicago Foundation Co., 76 West Monroe St.; (F) Great Lakes Dredge & Dock Co., 104 South Michigan Ave. The unit bids are as follows:

	A	B	C	D	E	F
Removing all obstructions (lump sum)	$10,570.00	$14,000.00	$10,000.00	$16,850.00	$36,800.00	$15,168.00
Shed for storage of cement—telephone (lump sum)	565.00	900.00	1,500.00	1,300.00	2,700.00	4,935.00
Building and removing cofferdam (lump sum)	10,480.00	13,000.00	20,000.00	53,000.00	38,000.00	63,600.00
6,000 cu.yd. general excavation	3.98	4.00	4.50	4.75	3.50	3.00
100 cu.ft. removal of boulders	.75	2.50	2.00	1.00	1.60	.79
430 cu.ft. removal of solid limestone	1.00	2.00	2.00	1.00	3.20	1.16
280 cu.yd. removal of solid concrete	6.88	9.00	10.00	13.00	21.00	15.00
20,100 cu.ft. complete sub piers	1.37	1.15	1.50	1.95	2.00	2.18
800 cu.yd. 1:6 portland cement concrete	15.27	13.50	18.00	18.40	22.00	33.60
1,300 cu.yd. 1:7½ portland cement concrete	13.78	14.75	16.00	18.25	20.00	27.60
130 cu.yd. portland cement mortar	15.56	19.00	18.50	20.00	35.00	27.60
300,000 lb. steel reinforcing material	.05	.05	.05	.06	.07	.07
150,000 lb. permanent fixed steel	.081	.08	.07	.0975	.12	.098
73,000 lb. structural steel beams or girders	.033	.03	.0275	.10	.09	.034
11,100 lb. steel castings	.14	.15	.14	.15	.10	.30
200 lb. cast iron manhole covers	.125	.35	.15	.08	.10	.32
2 brass bell traps	15.00	30.00	12.50	13.00	27.00	23.50
30 safety treads	3.00	4.25	1.75	2.75	3.50	5.40
1,300 lin.ft. Norway pine or cypress piles—delivered	.30	.40	.35	.35	.35	.49
1,200 lin.ft. driving sundry piles	1.00	1.50	2.00	1.00	.75	.42
5,000 ft. b. m. creosoted oak timber—in place	250.00	225.00	250.00	250.00	280.00	305.00
16,000 ft. b. m. untreated yellow pine timber—in place	200.00	120.00	220.00	300.00	200.00	214.00
Concrete in sub-piers under air pressure, per cu.ft.	7.00	10.00	6.00	15.00	8.00	1.00
Extra portland cement, per bag	1.00	.70	.75	1.00	.75	.80
Totals	$144,914	$147,568	$166,909	$233,480	$247,080	$264,522

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Filtration Plant—Grand Haven, Mich.

Bids were opened by City Council, June 20, (lowest four and highest) for constructing 2,000,000-gal. filtration plant, including filters, storage basin, sedimentation basins, etc., Division A, filter plant from (A) G. E. Tillman, Centralia, Ill., (awarded contract); (B) Priester Construction Co., Davenport, Ia.; (C) Bierd, Lydon & Grandpre, Chicago; (D) A. Bentley & Sons, Toledo, O.; (E) Andrews Fay Construction Co., Miami, Fla.; Division B, filter equipment and piping, (A) Roberts Filter Mfg. Co., Darby, Pa., (awarded contract); (B) International Filter Co., Chicago; (C) A. Bentley & Sons; (D) E. W. Bacharach, Kansas City, Mo.; (E) Hay-Weaver Co., South Bend, Ind. The unit bids are as follows:

	A	B	C	D	E
Division A					
5,300 cu.yd. earth excavation	$1.50	$0.79	$0.95	$1.05	$1.45
5 cu.yd. rock excavation	5.00	5.00	5.00	5.00	5.00
150,000 lb. reinforcing steel	.055	.043	.045	.045	.05½
270 cu.yd. concrete Class A floors and footings	14.00	13.90	14.00	12.00	13.17
800 cu.yd. concrete Class A, walls, beams, etc	19.00	21.40	24.50	22.25	39.35
10 cu.yd. concrete, Class B	10.00	9.60	10.00	10.37	20.00
75,000 lb. structural steel and iron	.06	.054	.07	.056	.079
3,000 lb. miscellaneous iron castings	.13	.13	.14	.145	.147
800 sq.ft. subway grating	1.25	1.70	1.50	1.26	1.41
Filter plant superstructure (lump sum)	16,007.60	22,573.00	19,000.00	22,222.00	27,019.70
5 M. ft. b.m. sheeting left in place	50.00	50.00	50.00	40.00	98.00
5 M. ft. b.m. plank foundations	40.00	50.00	50.00	40.00	98.00
Totals	$57,652	$60,504	$61,660	$61,746	$86,404
Division B	A	B	C	D	F
Filter piping (lump sum)	$4,940.00	$5,980.00	$5,375.00	$5,675.00	$6,400.00
Head house piping (lump sum)	2,200.00	2,680.00	2,472.00	3,200.00	2,873.00
Aerator piping (lump sum)	1,200.00	1,750.00	1,140.00	1,550.00	1,285.00
Valves and sluice gates (lump sum)	6,000.00	5,700.00	7,050.00	6,161.00	6,250.00
Filter underdrains					
Alternate A— pipe system	3,300.00	2,540.00	2,671.00	3,180.00	4,100.00
Alternate B— bidders' system	3,100.00	2,540.00	2,400.00	1,700.00	....
Filter sand and gravel (lump sum)	1,900.00	1,560.00	1,200.00	1,950.00	488.00
Rate controllers, gages, meters (lump sum)	3,200.00	2,720.00	3,772.00	3,120.00	3,715.00
Chemical equipment (lump sum)	2,200.00	2,070.00	2,394.00	2,180.00	3,468.00
Totals	$24,940	$25,000	$26,074	$27,016	$28,579

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57 cents per cu.ft. is the contract price of a terminal warehouse building for the Central Terminal & Cold Storage Co., of New York City, awarded to the Parklap Construction Co., New York City. The building will be 208x223 ft. by 132 ft. high; 46,384 sq.ft.; 1 story 20 ft., 10 story 13 ft., 9 stories 11 ft.; to cost $3,500,000. Concrete, with caisson foundation and reinforced-concrete floor. Moores & Dunford, 110 East 42d St., New York, engineers.

Constr. News page 81a

Grain elevator of 8 storage tanks, 96 ft. high, 25 ft. diameter, at Hutchinson, Kan., is estimated at $40,000.

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Gas pipe line, Oklahoma and Texas, Phillips Petroleum Co., made preliminary plans, $10,000,000.

Silk factory, Old Hickory, Tenn., Dupont Rayon Co. having plans prepared, $4,000,000.

High school, Trenton, N. J., Bd. Educ. having plans prepared, $3,000,000.

Grocery store and office, Chicago, Ill., Tebbets & Garland having preliminary sketches made, $2,000,000.

Club, Chicago, Ill., Chicago Beach and Country Club, having sketches made, $2,000,000.

Gas plant, Piscatawaytown, N. J., Internat'l Combustion Engine Corp., having plans prepared, $1,500,000.

Training school, Philadelphia, Pa., University of Pennsylvania, plans, $1,500,000.

Apartment, South Orange, N. J., Kuskin and Rothberg, having sketches made, $1,500,000.

Bank and office, Tulsa, Okla., Exchange Trust Co., plans prepared, $1,000,000.

Waterworks, Hood River, Ore., making surveys and plans new waterworks, $1,000,000.

Bids Desired

Bridge, Paducah, Ky., Bridge Committee, bids open Aug. 22, $2,100,000.

Bridge, Chicago, Ill., Com. Pub. Works, bids open Aug. 30, $1,500,000.

Seminary, West Hartford, Conn., St. Thomas Seminary, taking bids, $1,000,000.

Bids Received

High school, Hyde Park, Mass., Schoolhouse Dept. from P. Caputa, $1,123,550.

Contracts Awarded

Power plant, Beaumont, Texas, Gulf State Utilities Co., will build by day labor, $4,000,000.

Theater, Louisville, Ky., Theater Realty Corp. to G. A. Fuller & Co., $1,000,000.

Memorial, Louisville, Ky., Louisville Memorial Comn., to Struck Constr. Co., $726,000.

News of the Week

Waterworks

Proposed Work

N. J., Seaside Heights — Making plans drilling two 12-in. wells, 175 ft. deep for waterworks system. $5,000.

W. Va., Grafton—Voted $140,000 bonds, new filtration plant. J. M. Rice, Oliver Bldg., Pittsburgh, Pa., engr. Noted Jan. 12.

Ill., Highland Park—See "Sewers."

Kan., Brookville—Making plans extending waterworks. $25,000. S. A. Sulentic, Constr. & Eng. Co., New England Bldg., Topeka, engr.

N. D., Lehigh—See "Buildings Industrial."

Mont., Kevin—Voted $65,000 bonds, constructing waterworks. A. W. Furber, town clk.

Mo., Savannah—Voted $85,000 bonds, impounding reservoir, filtration plant, etc. J. W. Shikles & Co., 708 New York Life Bldg., Kansas City, engrs. Noted Mar. 25, 1926.

Tex., Rotan—Plans new waterworks improvements outside city limits, extending mains, etc. $150,000. Hawley & Roberts, c/o Leader Bldg., Lubbock, engrs.

Tex., San Benito—See "Unclassified."

Tex., Weslaco — Making preliminary plans water filtration plant. $40,000 bond election soon for same. B. T. Sanders, Weslaco, engr.

Tex., West Vernon—Making plans 400,000 g.p.d. complete waterworks. $25,000. Address Mayor.

Okla., Anadarko—Voted $35,000 bonds, main extensions, incl. 9,900 ft. 4 and 6 in. c.i. pipe. R. Cleveland, mayor. Noted July 7.

Okla., Cordell—Voted $26,500 bonds, new settling basin and main extension. F. Ford, Cordell, engr. Noted June 23.

Okla., Goteba—Plans new water supply and extensions. $15,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted May 19.

Okla., Hobart—Making preliminary plans main extension. $65,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Oklahoma City—Made preliminary plans 21,000 ft. 4- to 8-in. mains in Lincoln Terrace Addition. $40,000. B. M. Hart, City Hall engr.

Okla., Renfrow — Making preliminary plans new waterworks, incl. c.i. mains, etc. $15,000. H. Lester, mayor. Engineer not selected.

Okla., Ryan—Voted $15,000 bonds, pump station, Triplex pump and motor, main extension, incl. 7,800 ft. 4 and 6 in. c.i. mains. F. E. Devlin, Bitting Bldg., Wichita, Kan., engr.

Ore., Hood River—Making surveys and plans new waterworks with source from Lost Lake. $1,000,000. Clark & Hurlburt, Hood River, engr.

Ont., Port Arthur—Making plans 1½ mi. 6-in. c.i. mains, for waterworks system. Engrs. est. $24,000. J. Antonisen, City Hall, engr.

Ont., Toronto—York Twp. making plans 1 mi. 6-in. c.i. mains, valves, hydrants, etc., on Rushton Rd., Snider and Sydney Aves. $15,000. F. B. Goedike, 40 Jarvis St., engr.

Bids Desired

N. Y., Long Island—Aug. 23, by N. J. Hayes, comr., Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Alderton and 41st Aves., 52nd and 54th Sts., Park Lane and 55th Pl., 68th Rd., 2nd Ward; Rose, 27th, 33rd, 43rd, 44th, and 48th Aves., 197th, 198th, 207th, 209th, 13th, 220th and 243rd Sts., etc., 3rd Ward, here.

> *THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.*
>
> *Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.*

N. Y., New York—Aug. 23, by N. J. Hayes, comr., Water Supply, Gas & Electricity, Municipal Bldg., 36 in. steel mains in Central Park and 5th Ave., Manhattan Boro, also Barker, Bruner, Cambreling, Cambridge, Commonwealth, Cross, Delafield Aves., etc., Bronx Boro.

N. Y., St. George—Aug. 19, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Appleby, Arden, Bellmore, Bement, Benedict, Bradford, Carmel, Grant, Kell, Lincoln Sts., etc., here.

N. J., Belmar—Aug. 22, by Boro Council extending water mains and sewers in various streets. C. W. Birdsell, engr.

Tenn., Nashville—Aug. 23, by Bd. Pub. Wks., 3 mi. 2 in. mains in northeast part of city. To exceed $15,000. City to furnish pipe. H. E. Howse, mayor. Noted Aug. 11.

O., Fostoria—Aug. 31, by City, improving water-works plant. J. N. Chester Engineers, Union Bank Bldg., Pittsburgh, Pa., engrs., adv. E. N.-R. Aug. 18.

Mo., Macon—Aug. 25, by W. A. Tibbs, city clk., improving waterworks, 215 acres clearing, 90,000 cu.yd. earth embankment, 1,050 cu.yd. concrete, pump station and gate house, two 700 g.p.m. centrifugal pumps and 9,708 ft. 12 in. c.i. mains, etc. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, engrs. Noted June 23.

Okla., Altus—Aug. 22, by L. L. Smith, city clk., extending 6,770 ft. 4- to 10-in. mains in various streets. $15,000. J. C. Chisum, Altus, engr.

Contracts Awarded

N. Y., Syracuse—Bd. Contr. & Supply, City Hall, new reservoir, to J. Young, West Brighton Ave. and Hunt St. $210,000. Noted Aug. 11.

Miss., Gulfport—See "Sewers."

Miss., Jackson—Addition to filtration plant, incl. chemical house, 4 filters, operating house, coagulating basin and flume and mixing chamber, to Owen & Gaddis, 810 South Gallatin St., approximately $60,000.

O., Cleveland — Comrs. Cuyahoga Co., 11,000 ft. 6 and 8 in. c.i. mains in Briar Cliff Subdivision 46, Impvt. 854, to Joseph Co., Prospect-Fourth Bldg., $28,459.

O., Columbus—O. Moore, clk. Franklin Co., 5,790 ft. 6- to 12-in. c.i. mains in Levee Dist. 1, to H. B. Watters, 180 North High St., $9,589. Engrs. est. $15,000. Noted July 21.

O., Maple Heights (br. Cleveland)—See "Sewers."

Ill., Galesburg—To Thorpe Bros. Well Co., 7th and Holcomb Sts., Des Moines, Ia., drilling well to Potsdam Formation, incl. drilling hole 400 ft. deep for casing 22 in. outside diam., etc., at $21 per ft., 400 ft. pipe for same at $10.40 per ft., drilling well 1,050 ft. deep for casing 14 in. outside diam. $13, furnishing and installing 14 in. casing for same $7.80, drilling hole 1,050 ft. deep for 12 in. outside diam. $6, making tests for water depth, at $4.50 per hr. This corrects report in Aug. 4 issue.

Wis., Milltown—A. N. Lystrup, city clk., pump house and deep well equipment, to E. E. Johnson, 2302 Long Ave., St. Paul. Noted July 14.

Neb., Lincoln—For 6 m.g. concrete reservoir, to B. J. Jobst Building Co., 414 Bankers Life Bldg., $64,900. Engrs. est. $84,000. Noted June 23.

Neb., Lincoln—For 53,205 ft. 4- to 16-in. c.i. mains, 53 hydrants, 109 valves, 49,000 lb. special castings, etc. in Water Dist. 118, to Newberg & Bookstrom, 1338 M St. $94,935. Engrs. est. $125,000.

Tex., Happy—Complete waterworks system, to Orman Constr. Co., Box 632, Shamrock, $27,516. Noted Jan. 20.

Tex., Millsap—Texas & Pacific R.R. Co., E. F. Mitchell, ch. engr. Dallas, earth dam for creation water supply reservoir, and concrete bridge to J. T. Scott, Millsap, approximately $90,000.

Tex., Turkey—Complete waterworks system incl. 50,000 gal. reservoir, 6- to 8-in. mains, pumping unit, etc., to Orman Constr. Co., Box 632, Shamrock, $40,180. Noted June 9.

See proposal advertising on page 138

TRADE "LEADITE" MARK

Registered U. S. Pat. Office

Even under the most rigorous conditions of service Leadite proves its efficiency

—where a line is subjected to constant vibration the joints must be tight and remain tight

IN installing the 12" bell and spigot bridge line illustrated here the element of constant vibration was a serious consideration.

Leadite was used for jointing and has given perfect satisfaction throughout the 5½ years since this Bridge Line was installed—working pressure approximately 105 lbs. per sq. in.

This water department has laid many miles of cast iron water mains with Leadite joints—sizes 6" to 30"—pressures ranging from 40 pounds to 170 pounds per square inch. They say their experience with Leadite has been extremely satisfactory. Their experience with Leadite extends over 20 years.

The ease with which Leadite can be used is another consideration with waterworks engineers in making their specifications for unusual and difficult installations, as well as for general work.

The speed of jointing with Leadite is of great importance to Contractors in helping them complete their work promptly. From experience they know how much time they can save by using Leadite.

Everywhere waterworks engineers specify and use Leadite for the satisfaction it gives, its safety, security and economy.

Twelve-inch c. i. bell and spigot water main —Bridge Line—over 500 feet long—subject to severe vibration—carrying approximately 105 lbs. pressure per square inch.

Specify and use

LEADITE

It saves at least 75%

Be sure it is

LEADITE

and accept no imitations

The pioneer self-caulking material for c. i. pipe. Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Sewers

Proposed Work

R. I., Woonsocket—Plans sewerage works in various streets, $106,000. Public Wks., Dept. engr.

N. J., Elizabeth—Bd. Wks. plans sewerage system from Westfield Ave. to Orchard St. $75,000. T. Collins, Elizabeth, engr.

N. J., Princeton — Boro Council made plans sewage system, disposal plant, etc. $400,000. N. S. Hill, 112 East 19th St., New York City, N. Y., engr.

Ind., Rossville—Making plans extending sewerage system. $20,000. Municipal Service Co., 413½ Wabash Ave., Terre Haute, engrs.

Mich., Muskegon — Making preliminary plans sewage disposal plant $900,000. Pearse, Greely & Hansen, 6 North Michigan Blvd., Chicago, Ill., engrs.

Ill. Belleville—Soon takes bids Richland Creek Intercepting Sewer, 11,458 ft. 36 and 42 in. concrete pipe, 609 ft. 24- to 36-in. pipe, rein.-con. treatment plant, outfall structure, etc. $190,320. Pearce, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs. Noted July 7.

Ill., Highland Park—Making plans sanitary sewers and water mains. $200,000. Windes & Marsh, Winnetka, engrs. Noted May 13, 1926.

Ill., Rockport—Soon takes bids new sewerage system. $25,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Minn., St. Paul—Plans sewers in Luella Ave., Maryland, Hyacinth, Orange, and Hawthorne Sts. $25,000. G. M. Shepard, city engr.

N. D., Lehigh—See "Buildings Industrial."

Ark., Fayetteville — Making preliminary plans extending and improving sewerage system in Sewer Dist. 1. $112,000.

Tex., Lockney—Election Aug. 16, $40,000 bonds complete sewerage system. Hawley & Roberts, Leader Bldg., Lubbock, engrs.

Tex., Rotan—Making surveys new sewerage system. $75,000 bonds soon for same. Hawley & Roberts, c/o Leader Bldg., Lubbock, engrs.

Tex., West Vernon (Vernon P. O.) — Making plans and soon take bids sewerage system. $25,000. Address Mayor.

Okla., Anadarko—Voted $35,000 bonds waterworks and sewer extensions. Peckham & Riggins, 225½ West Grand St., Oklahoma City, engrs.

Okla., Claremore—Plans 17,700 ft. 8 and 10 in. vitr. clay lateral sewers in Sewer Dist. 20. $23,410. B. Sprangle, Claremore, engr.

Okla., Sand Springs—Plans 14,400 ft. 8 and 10 in. vitr. clay lateral sewers in Sewer Dist. 21. $30,000. C. Tingley, Sand Springs, engr.

Okla., Wanette—Defeated $45,000 bonds new sanitary sewerage system. C. A. Wood, Stillwater, engr. Noted Apr. 28.

Colo., La Junta—Plans sewage pumping plant. $40,000 bonds. G. E. Hine, La Junta, engr.

Calif., Fullerton — Made surveys storm drain and sewerage system here, to exceed $400,000. C. M. Thorpe, city engr.

Calif., Glendale—Plans 6- to 10-in. sewers in Cambell, Dryden, Mountain Sts., etc. $25,000. J. F. Johansen, City Hall, engr.

Ont., Hamilton—City soon takes bids approximately 1,500 ft. storm trunk sewer on Gage Ave. south of Barton St. $45,000. W. L. McFaul, City Hall, engr.

Ont., Port Arthur — Making plans constructing 1.5 mi. 8-in., etc., vitr. clay sewers in various streets. Engrs. est. $26,000. J. Antonisen, City Hall, engr.

Ont., Riverside—Making plans constructing 3-4 mi. 8 in. and 12 in. vitr. clay sewers in various streets. $60,000. A. W. oCnnor & Co., Metropolitan Bldg., Toronto, engrs.

Ont., Toronto—Robins Ltd., Nat. Bldg., making plans rein.-con., sewage disposal plant, at Armour Heights subdivision. $40,000. Gore, Nasmith & Storrie, Confederation Life Bldg., engrs.

Bids Desired

Mass Beverly—Aug. 24, by South Essex Sewerage Bd., Fort Ave., Salem, substructure Beverly Pumping Station, rein.-con. 30 x 40 x 25-48 in. -30 in. and 20 in. c.i. inlet and discharge sewers and appurtances at water front, foot Wales St. Private plans.

N. Y., Brooklyn—Aug. 24, by J. J. Byrne, pres., Brooklyn Boro, Boro Hall, improving Manhattan Beach disposal plant and installing automatic pumping equipment, etc.

N. Y., Brooklyn—Aug. 24, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewers in Avenue P, Kingshighway, West 5th and West 10th Sts.

N. Y., Long Island City—Aug. 22, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers etc. in portions Hosack and 65th Places, Bway., 88th and 89th Sts., Burnside, Hayes, 25th, 50th, and 109th Aves.

Pa., Allentown—Sept. 6, by M. W. Gross, mayor, pumps for sewage treatment plant, Contr. 2, Metcalf & Eddy, Statler Bldg., Boston, Mass.; adv. E. N.-R. Aug. 18.

Pa., Phila.—Aug. 24, by Dept. Pub. Wks., Bureau of Engineering, branch sewers in various streets. G. H. Biles, dir.

Okla., Ada—Aug 23 (extended date), by L. Daggs, city clk., new sewage disposal plant and 630 ft. 8- to 24-in. outfall sewers, Imhoff tank, 1,000 g.p.m. motor driven pumps, etc. $45,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted Aug. 11.

B. C., Burnaby — See "Contracts Awarded."

Contracts Awarded

Mass., Boston—Dept. Pub. Wks., sewerage system in River St. etc. in Dorchester and Hyde Park, to De Christoforo Bros., Co., 38 Glendale Rd., Rosindale, $66,387. Noted July 21.

Mass., Stoneham — Sewers in various streets, to Federal Constr. Co., Summer St. Engrs. est. $25,000. Noted July 13.

Conn., Bridgeport—Brick and steel disposal plant located under ground, incl. comfort station, to W. J. Shaughnessy, 527 Brooks St., $77,849. Engrs. est. $75,000.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Kingsland Ave., to J. Gallo, 169-10 State St., Flushing, $77,944. Noted Aug. 11.

N. Y., New York—W. J. Flynn, acting pres., Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Nereid Ave. to Commerce, 1910 Webster Ave., $60,466; and in East 233rd St., to C. Turiano Contg. Co., 2911 Coddington Ave., $19,282. Noted Aug. 11.

Pa., Lansdale—Boro Council, sewerage system, to Anthony Pietro Co., Morgantown, W. Va., $60,895 and pumping station, to M. Y. Neeley Co., Phila., $9,437. Noted July 21.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, main sewers in Washington Lane, to A. Frunzi, 513 High St., $18,977; and Forrest St., to Jafalla & Mark, Inc., 10 Ryders Ave. $80,287. Noted July 14.

Fla., Miami—Concrete sanitary sewers, Contr. 97 in Dists. 231, 244 and 245, to Central Station & Equip. Co., Miami and 114 Liberty St., New York, N. Y. $437,647.

Miss., Gulfport—System terra cotta pipe sewers in 20th, 33rd, 37th, 38th, 41st, Rich and Thorton Aves., to G. A. Muth & Son, Rickarby St., Mobile, Ala., $29,482. Engrs. est. $30,000. Also 6,200 ft. 6-in. c.i. and 1,300 ft. 2-in. galvanized iron water mains, 12 firehydrants, etc., to G. Hopkins, East Beach St., $8,154. Noted April 14.

O., Amherst—Constructing sewage disposal plant, to W. O. Kester & Co., Box 84, Firestone Park, P. O., Akron. $59,048. Noted June 23.

O., Burton—For 3.5 mi. 8 in. vitr. clay sanitary sewers in various streets, to Shullo & DeLuch, 140 Summit St., Akron, $74,927.

O., Cleveland—Comrs. Cuyahoga Co., 3,800 ft. 8 to 27 in. sewer in Sunset Drive Sewer, Impvt. 311, to Janashak & Callow, 1366 Union Ave. $26,419.

O., Cleveland—Comrs. Cuyahoga Co. 10,000 ft. 8- to 30 in. tile sewers in Elmwood Rd., to J. B. Lynn Constr. Co., 16311 Saranac Rd. $26,594.

O., Euclid (br. Cleveland)—Constructing sewer in (3 sections) Euclid Ave., to A. C. Hattendorf, Stop 14, $130,451. Noted July 28.

O., Maple Heights (br. Cleveland)—Sewers in 3 streets and mains in 2 streets, to Hadded-Mall Co., Schofield Bldg., Cleveland $37,191 and $18,980 respectively.

Mich., Detroit—Dept. Wks., 4,037 ft. concrete sewer in Detroit River Interceptor Sec. 4 and 3,777 ft. sewer, etc., Sec. 5 to S. A. Healy, 1007 American State Bank, $24,950 and $356,545 respectively. Noted Aug. 11.

Mich., Detroit—Dept. Pub. Wks., constructing Connors Creek Backwater Gates in connection with Connors Creek sewer, incl. 24,015 cu.yds. excav., 7,737 cu.yds. concrete, 781 tons reinforcing 22,920 lin.ft. wood piling, to Lennane & McIllvenna, foot of Leib St. $449,921.

Ill., Chicago—H. C. W. Leubenheimer, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., North Side Intercepting Sewer Contr. 9, incl. 7 river and channel crossings, to Byrne Bros. Constr. Co., 624 South Michigan Ave., $285,950. Noted July 21.

Ia., Grinnell—Changes in Imhoff tank, 25 x 48 ft. sludge digestion tank, 113 x 128 ft. sprinkling filter, 60 x 100 ft., sludge bed, 1,600 ft. 24-in. vitr. pipe sewers, to A. Emmert, Newton, $60,900. Noted Aug. 11.

Kan., Abilene—For 5,400 ft. 15-in. vitr. clay pipe, sewage pumping station, etc., to Ray G. Tripp Constr. Co., Herrington. $29,579. Noted June 23.

Tex., Levelland—Sanitary sewerage system, pumping and sewage disposal plant, to R. Irick, Plainview. Approximately $60,000.

Ont., Toronto—Robins Ltd., Natl. Bldg., 1 mi. 8- to 21-in. sewer in Armour Heights subdivision, to W. E. Taylor, 22 Falcon St., and pipe to Clay Products Agency, Metropolitan Bldg. Engrs. est. $30,000.

Ont., Toronto—Vitr. tile sewer in Lane 1st. North of Norman Ave., to Natl. Contr. Co., 52 Imperial St., $720; egg and circular brick sewers in tunnel, Yonge St., from Lawrence Ave. to City limits, in connection with North Toronto Sewage Scheme, and in Section 4A, to W. R. Worthington Constr. Co., 287 Belsize Dr., $81,710 and $21,724 respectively; Vitri. tile sewers in Lane North of Garnet Ave. and West of Ossington Ave., to Grant Contr. Co., 50 Front St., E., $3,600; sewers in lane near Sullivan St., to Simone Bros., 133 Monarck Pk. Rd., $925. Grand total $108,679.

B. C., Burnaby—Municipal Council will construct 70,555 ft. 6- to 15-in. sewers in various streets. $146,270. Work will be done by day labor. Former contract rescinded. D. Johnston, Municipal Hall, Edmonds, engr.

Bridges

Proposed Work

Miss., New Albany—Union Co. making preliminary plans rein.-con., creosoted timber and steel bridge, 20 ft. wide, across Tallahatchie River, here. $70,000.

O., Urichsville — Tuscarawas Co., New Phila., plans 200 ft. concrete bridge over Stillwater Creek, Trenton Ave. $50,000-$60,000.

Kan., Columbus—Cherokee Co., rejected bids two 70 ft. steel truss, one 20 ft. slab and two 35 ft. deck girder spans on Federal Aid Project 299-B. H. W. Tyrell Court House, engr. Noted July 14.

Tex., Amarillo—City, c/o J. D. Bartlett, city mgr., making plans rein.-con. viaduct over tracks Chicago, Rock Island & Pacific R.R. at West 8th St., $40,000. Address H. B. Jones, city engr.

Tex., Cliffside (mail Amarillo)—Potter Co. (Amarillo), c/o S. B. Motlow, judge, making preliminary surveys, etc., 60 ft. concrete and steel bridge, and 20 ft. approaches across West Amarillo Creek, near here. $50,000. R. W. Ryder, Amarillo, co. engr.

Tex., Houston—Made plans 7 span, 400 ft. rein.-con., bridge with 100 ft. steel lift span, extension Lockwood St. $200,000. J. C. McVea, city engr.

Tex., Laredo—Plans 3 bridges all rein.-con. and steel, $100,000 bond election soon for same. F. C. Heines, Laredo, engr.

Tex., Seguin—Guadalupe Co. plans concrete and steel bridge across Guadalupe River. $35,000. Address Co. Judge, Seguin.

Tex., Vernon—Wilbarger Co. voted $50,000 bonds concrete and steel bridge over Pease River. Address J. V. Townsend, co. judge. Noted June 2.

Ore., Portland—Comrs. Multnomah Co. take bids in spring concrete bridge over Columbia Slough between Portland, Ore. and Vancouver, Wash.; also grading and paving Denver Ave. approach to same bridge. $427,119.

California—Tulare Co. (Visalia) making plans, 323 ft. "Woodlake Bridge" over St. Johns River; 120 ft. Springville Bridge over Tule River on Camp Nelson Rd.; 283 ft. Italy Grade bridge over Tule River north of Poplar; 264 ft. Deer Creek Bridge over Deer Creek on Fountain Springs-Deer Creek Rd., and 33 ft. bridge over Cameron

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INDEPENDENT CONCRETE PIPE "Show up Remarkably Well" in Euclid, O., Tests

From Euclid (Cleveland) Ohio Observer

Thorough Tests are Made of Concrete Sewer Pipe

The Euclid engineering department has put into effect a thorough system for testing the materials used in constructing concrete sewers . . . Tests of the concrete are made three times a day, and the materials are also tested on delivery. Tests are made by filling tubes with the concrete as it is mixed. Some of the tubes are allowed to stand seven days, and some twenty-eight days, before testing.

Recent tests of the concrete pipes made for the Euclid Avenue sewer **showed up remarkably well,** according to Engineer Frank A. Thomas. The pipes are being manufactured by the Independent Concrete Pipe Company of Indianapolis for the sewer contractor, the Ciraci Construction Company. The highest of the seven-day tests was that of 3,634 pounds to the square inch. In fact, this cube of concrete carried a weight of 100,000 pounds, which was considered remarkable by the engineer. Two other tests withstood 2,702 pounds pressure in one instance and 2,211 pounds in another. The concrete, to be standard, should stand a pressure of from 1,200 to 1,500 pounds to the square inch, in seven days, according to Engineer Thomas. The tests were conducted by the Cleveland Testing Laboratory.

Yard at Euclid, Ohio, where Independent Concrete Pipe were built for Euclid Ave. sewer.

These tests, plus those conducted in many other cities, prove conclusively that none but the best of materials and workmanship are used in building INDEPENDENT Reinforced Concrete Pipe.

The *proved* high quality of INDEPENDENT Pipe is the city's guarantee of a permanent, efficient sewer, and it is the contractor's assurance of a smooth-running, profitable job.

The *economy* of INDEPENDENT Concrete Pipe is another feature which will interest engineers and contractors. Let us send you estimates on your next concrete pipe sewer project.

INDEPENDENT CONCRETE PIPE CO., 202 N. West Street, Indianapolis

Bridges (Continued)

Creek near Zumwalt Ranch, 32 ft. bridge east of Merryman over Yokohl Creek, all rein.-con. L. A. Moye, co. surveyor.

Calif., Knights Landing (Grafton, P. O.)—Yolo Co., (Woodland) and Knights Landing Ridge Drainage Dist. preparing plans bridge over Knights Landing ridge. $50,000. A. G. Proctor, Woodland, co. surveyor.

Calif., Olive—Atchison, Topeka & Santa Fe Ry., R. B. Ball, ch. engr. (coast lines), 6th and Main Sts., Los Angeles, making plans replacing timber bridge with one 70 ft. and one 75 ft. steel span bridge over Santa Ana River, near here. $150,000.

Bids Desired

New Jersey and Pennsylvania—Aug. 24, by Joint Comn. for Elimination of Toll Bridges over Delaware River, between New Jersey and Pennsylvania, State Office Bldg., Trenton, N. J., steel superstructure for bridge over Delaware River connecting Trenton, N. J. and Morrisville, Pa. L. Focht, supt. and engineer; adv. E. N.-R. Aug. 18.

Pa., Phila.—Aug. 24, by Dept. Pub. Wks., Bureau of Engineering, 162 ft. steel incased in concrete bridge, 66 ft., over Phila. & Trenton R.R. tracks, on Linden Ave. G. H. Biles, dir.

Ky., Paducah—Aug. 22, by Bridge Committee, c/o Paducah Board Trade, 11 span 4,000 ft. bridge, concrete trestle bridge on concrete piers over Ohio River, here. $2,100,000. Harrington, Howard & Ashe, Orear-Leslie Bldg., Kansas City, Mo., engrs. Noted July 21.

Michigan—Aug. 23, at office G. H. Greene, resident engr., Alpena, one 150 ft. span T. L. Bridge 1-68-1-1 Contr. 1 and 2, Oscoda Co. for State Hy. Dept., Lansing.

Michigan—Aug. 24 at Macomb Co. Road Office Mt. Clemens, two 50 ft. steel deck girder S. R. Bridge 1-50-3-24 Contr. 1. C. L. Cowgill, Plymouth, resident engr.

Michigan—Aug. 30, at Genesee Co. Road Office, Flint, five 45 ft. steel deck girder span S. R. bridge 1-25-7-23 Contr. 1 and 2 and two 55 ft. span T. L. bridge 1-25-16-5 Contr. 1 and 2. R. W. Roberts, 504 Eddy Bldg., Saginaw, resident engr.

Ill., Chicago—Aug. 30, by R. W. Wolfe, comr. Pub. Wks., 200 ft. trunnion bascule bridge 62 ft. wide with 38 ft. roadway, over Calumet River at 106th St. $1,500,000. T. G. Philfeldt, City Hall, engr. Noted Aug. 12, 1926.

Tex., Houston—Aug. 31, by City, O. F. Holcombe, mayor, 3 span 400 ft., steel and concrete bridge across Houston Ship Channel at Adams St. $200,000. J. C. McVea, Houston, engr.

Contracts Awarded

N. J., Roselle (Ind. br. Elizabeth)—Concrete bridge at 5th Ave., to Weldon Contr. Co., Westfield, $38,515.

Pa Harrisburg—B. E. Taylor, secy. Dept. Property & Supplies, Capitol Bldg., Soldiers and Sailors Memorial Bridge, Contr. 2, to James McGraw Co., Phila., $1,623,381. Noted June 30.

Pa., Pittsburgh—Substructure for Millvale Avenue Bridge over Pennsylvania R.R. tracks, to Vang Constr. Co., Bessemer Bldg., $38,803. Noted Jan. 20.

West Virginia — State Road Comn., Charleston, Flat Run Bridge on Project 3203-F, Preston Co., to E. R. Mills, Covington, Ky., $8,235 Paw Paw Bridge on Project 1004 Morgan Co., to Polina Constr. Co., Keyser, $32,860, Buffalo Bridge, Project 3326-A Putnam Co., also gravel surfacing approaches to same, to Young Bros., Red House, $5,650. Grand total $46,755. Noted June 30 and July 7, under "Streets and Roads."

Wis., Muscoda—State Hy. Comn. at Village Hall, constructing Muscoda Bridge, incl. 1,167 lb. structural steel and 91,550 lb. reinforcement, etc., to Worden-Allen Co., Pt. Washington Rd., Milwaukee, $153,850. Noted July 28.

Washington—State Hy. Comn., Olympia, 4 rein.-con. bridges on State Road 2, and rein.-con. T-beam bridge over Salmon Creek, Clark Co., to Colonial Building Co., 617 Hutton Bldg., Spokane $53,391 and $12,232 respectively; also one 40 ft. and two 38 ft. rein.-con. T-beam bridge over Kachees River on Federal Aid Project 114-C, to Lindstrom & Feigenson, 230 Worcester Bldg., Portland, Ore., $22,928, both Kittitas Co. Grand total $88,551. Noted July 21 under "Streets and Roads."

Dams

Contracts Awarded

Mo., Osceola—See "Buildings Industrial."
Tex., Millsap—See "Waterworks."

Railways

Proposed Work

Mass., Boston — Quincy Market Cold Storage & Warehouse Co., 178 Atlantic Ave., plans private railroad tracks, Hanover and Commercial Sts. $25,000. Private plans.

Bids Desired

New York — Sept. 1, by A. C. Watson, ch. engr. Long Island R.R. Co., Long Island Station, Jamaica, lowering West Hempstead Branch track, etc. to permit constructing bridge on Southern State Parkway, west of Lakeview, in Hempstead; adv. E. N.-R. Aug. 18.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

N. J., Allenhurst—Boro, M. D. Pyle, clk., plans repairing and altering jetties and appurtenances on ocean front. $30,000.

La., Ferriday—Making preliminary plans, levees and drainage system here. $200,000.

La., Monroe—Tensas Levee Bd. making preliminary plans repairing levee along Ouachita River, Ouachita and Caldwell Parishes. $50,000.

La., New Orleans—Orleans Levee Bd., 201 New Court House, made preliminary plans moving back levee line and raising grade of Dumaine St. levee. $100,000. R. B. Kohnke, 201 New Court House, engr.

Ark., Conway—Levee Dist. 1, J. E. Little, dir., making preliminary plans repairing approximately 100,000 cu.yd. levee, here. Dickinson & White, Boyle Bldg., Little Rock. engrs.

Ark., Newport—Overcup D. D., c/o P. W. Black, R. F. D., making preliminary plans approximately 230,000 cu.yd. excav. in ditches, etc. Bowman-Morrow Eng. Co., 201 Court House, engrs.

Ark., Tuckerman—Swan Pond D. D., c/o S. Graham, comr., making preliminary plans 130,000 cu.yd. excavation, in ditches, etc. Bowman-Morrow Eng. Co., 201 Court House, Newport Ark., engr.

Tex., Brownsville—Voted $600,000 bonds drainage work in Cameron Co. Water Control & Impvt. Dist. 5. Address O. C. Darcy, Brownsville, co. judge.

Tex., Harlingen—Arroyo Navigation Dist. c/o J. B. Chambers, voted $500,000 bonds ship channel. Noted June 30.

Tex., Ingleside—See "Buildings—Industrial."

Colo., Nepesta—Pueblo County, Nepesta Ditch & Irrigation Co., E. F. Nichols, Court House, Pueblo, plans dirt excavation to build water storage reservoir incl. rein.-con. work, near here. $250,000.

Calif., Grass Valley—Nevada Irrigation Dist., making plans reservoir on Deer Creek at Scott's Flat, also dam on Bear River at Combie site, near here. F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, engr.

Bids Desired

N. Y., North Tarrytown (Ind. br. Tarrytown)—Aug. 29, by Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, dredging in Hudson River, constructing dikes, filling in swamp area east of New York Central R.R. tracks and filling beach at Kingslands Point Park, here. J. Downer, Bronxville, ch. engr. adv. E. N.-R. Aug. 18. Noted July 7.

Illinois—Sept. 1, Comrs. Union D. D. 1, Rock Island Co., towns Zuma and Hampton, at office F. P. Searle, 303 Safety Bldg., Rock Island, cleaning out and widening Main Ditches, 1, 2, 3, 4, 5, 6 and 7, constructing Ditch 8 and three 2 ft. and one 3 ft. automatically closing sluice gates. W. Treichler, Rock Island, engr.

Contracts Awarded

N. Y., Rye—Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, constructing stone breakwater, dredging, filling and sanding along beach and parking area, at Rye Beach to Merritt Chapman & Scott, 17 Battery Pl., New York City, $249,200. Noted June 23.

Tex., Brownsville—Flume across Rancho Viejo Resaca River to W. W. Vann, Brownsville, and excavation on drainage ditches, to J. Ballinger, San Benito. Engrs. est. $140,000.

Streets and Roads

Bids Desired

Massachusetts—Aug. 23, by Dept. Pub. Wks., Boston, bituminous macadam and rein.-con. paving 8,371 ft. highway in Framingham, Sudbury and Marlboro, 18 ft. W. F. Williams, comr.

N. Y., Hawthorne—Aug. 19, by Boro Comrs., grading, curbing, and guttering Wagaraw Rd., Jefferson, Pasadena Pls., Lincoln, Railroad, Florence Aves., etc. W. Ferguson's Son, 152 Market St., Paterson, engr.

N. Y., Long Island City—Aug. 24, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, guttering, curbing, sidewalks, etc. on portion 90th and 46th Aves., 91st Ave. (Carll St.), National (Louona) Ave., and grading, sidewalks, guttering, curbing, and sheet asphalt and granite block resurfacing portion Corona Ave.; sheet asphalt repaving Central Ave.

N. Y., New York—Aug. 24, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing and flagging Ellwood, C. Vestry, East 4th and Tompkins Sts.; granite block paving East 4th St.; sheet asphalt paving, etc. 55th, 65th, 181st., Thayer and 211th Sts.

N. J., Plainfield—Sept. 6, by Common Council, City Hall, grading Watchung Ave. from Charlotte Rd. to Fernwood Ave., A. W. Vars, City Hall, engr.; adv. E. N.-R. Aug. 18.

Pennsylvania—Sept. 1 and 2, by State Hy. Comn., Harrisburg, grading, rein.-con. paving, etc., approximately 51 mi. 26 projects in Beaver, Blair, Butler, Cambria, Chester, Crawford, Dauphin, Erie, Green, Huntingdon, Lawrence, Lebanon, Lycoming, McKean, Monroe, Northampton, Northumberland, Somerset, Tioga, Washington, Westmoreland and constructing bridge in Bicks Co. J. L. Stuart, secy. highways.; adv. E. N.-R. Aug. 18.

Del., Dover—Aug. 22, by Town grading and concrete paving, etc. 1,350 cu.yd. roads Contr. SP-1.

Maryland—Aug. 23, by State Roads Comn., Baltimore, sheet asphalt paving 0.47 mi. Contr. Bc-72, Baltimore City, and concrete curbing 0.3 mi. Contr. AB-10-G, Anne Arunde 1 Co. J. N. Mackall, chn.; adv. E. N.-R. Aug. 18.

Va., Leesburg—Aug. 24, by Bd. Supervs. Loudoun Co., improving 4.29 mi. Hamilton-State Route 32 Rd., Mt. Gilead Dist., 40,360 cu.yd. excav., 4,137 cu.yd. borrow, 10,462 cu.yd. top soil, etc.

W. Va., Elkins—Aug. 24, by City Council, J. W. Graham, city clk., grading, curbing and paving 6,200 sq.yd. Projects 2, 3 and 4.

W. Va., Elkin—Aug. 24, by City Council, at office of Mayor, grading, curbing and paving 11,245 sq.yd. Locust Ave., 1st, Davis, Central, John Sts. Noted June 23.

Ga., Tennille—Aug. 23, by City Council, curbing, guttering and asphalt or concrete paving 10,350 sq.yd. various streets. Harwood Beebe Co., Spartanburg, S. C., municipal engrs.

Louisiana—Sept. 6, by State Hy. Comn., Reymond Bldg., Baton Rouge, constructing, 1.635 mi. road, Sabine Parish, Many-Zwolle-Converse-De Soto Parish Line Hy. from Converse east to Oak Grove School. State Project 398-F. Sabine Parish, N. W. Bowden, State Hy. engr.

O., Cincinnati—Aug. 23, by C. O. Sherrill, city mgr., City Hall, sheet asphalt repaving 16,000 sq.yd. and concrete repaving 33,000 sq.yd. Erie Ave. $227,275.

O., Dayton—Aug. 22, by Comrs. Montgomery Co., Court House, asphalt, rein.-con. or brick paving 2,500 ft. 8 streets in Hills-Dale Plat, 30 ft. $30,000. W. O. Pease, Court House, co. surv.

O., Leetonia—Aug. 25, by City Council, grading and surfacing Lisbon and Walnut Sts. $25,000-$30,000. Noted Feb. 10.

O., Lisbon—Aug. 25, by Comrs. Columbiana Co., resurfacing and widening 1.053 mi Lisbon-Canton Rd., 20 ft. concrete $32,973, brick $32,178; also widening 1 mi. Valley-Damascus Rd., 18 ft., $25,000. L. C. Kirk, Lisbon, engr.

O., Springfield—Aug. 20, by Comrs. Clark Co., paving 5.43 mi. Springfield-Troy Rd., Sect. Q, concrete $176,778; and macadam $176,334. W. H. Sieveling, Springfield, engr.

Michigan—Aug. 25, by R. W. Roberts, resident engr., 504 Eddy Bldg., Saginaw, concrete paving 1.998 mi. FO 29-7 Contr. 1, Gratiot Co.

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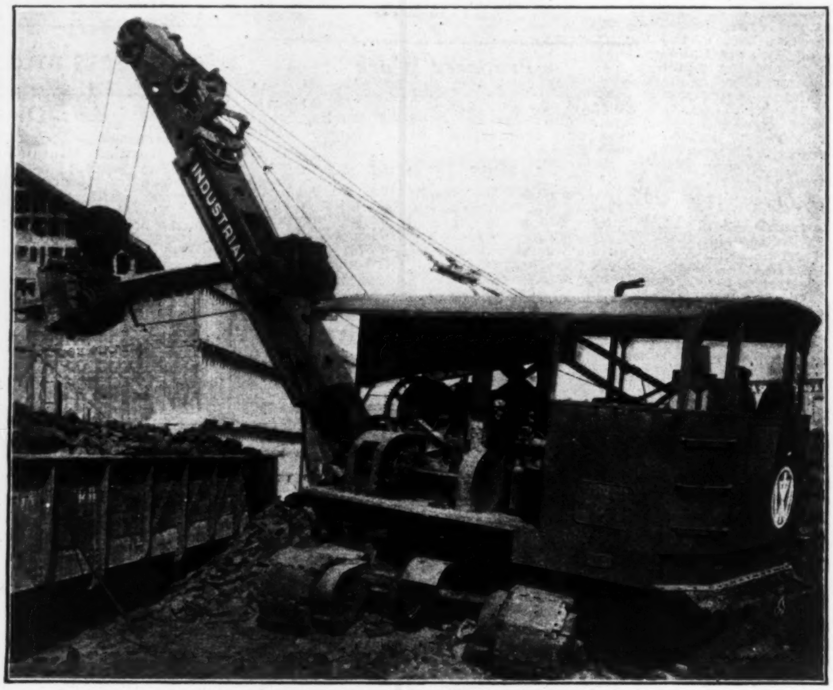

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Packard Building

Pittsburgh, Pennsylvania
Federal Reserve Building

San Francisco, Calif.
Monadnock Building

St. Louis, Mo.
Railway Exchange Bldg.

Streets and Roads (Continued)

Ill., Chicago—See "Unclassified."

Ill., Glencoe—Aug. 26, by City, rein.-con. paving portion Skokie Ridge. $150,000. Windes & Marsh, Winnetka, engrs.

Ia., Corning—Aug. 29 by City Clerk, grading, curbing and rein.-con. vibrolithic concrete or brick paving 20,000 sq.yd. various streets. F. McClellan, City Hall, engr.

Ia., Sigourney—Aug. 22, at office Auditor Keokuk Co., 8,210 ft. guard rail and 34 anchors on Secondary Project 2; 1,700 ft. guard rail, 16 anchors and 2,000 cu.yd. gravel 1 mi. haul and 4,750 cu.yd. ½ mi. haul graveling Secondary Project 3. R. C. Fye, Sigourney, co. engr.

Ia., Spirit Lake—Aug. 22, at office Auditor Dickinson Co., graveling 26 mi. road. R. A. Furman, Spirit Lake, engr.

Minn., St. Paul—Aug. 22, by G. J. Riss, aud. Ramsey Co., asphaltic concrete or natural rock asphalt on rein.-con. paving approximately 30,000 sq.yd. Minnesota Trunk Highway. P. N. Coates, 900 Guardian Life Bldg., co. engr.

Nebraska—Aug. 26, by State Hy. Comn., Lincoln constructing 118.3 mi. grading; and 172.8 mi. graveling, etc. 26 projects in 29 counties. R. L. Cochran, highway engr.

Tex., Shamrock—Taking bids alternate type paving 28 blocks various streets. $70,000. F. L. Beasly, secy.

Okla., Enid—Aug. 23, by R. T. Williams, city clk., grading, curbing and concrete paving 20,460 sq.yd. East Cherokee Ave. $61,820. F. C. Magruder, Enid, engr.

Okla., Wewoka—Aug. 23, by D. R. Fraser, city clk., grading, curbing and concrete paving 47,480 sq.yd. Dist. 10. $196,210. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted July 7.

Colorado—Aug. 24, by State Ry. Dept., Denver, gravel surfacing 2.848 mi. Highway 4, Federal Aid Project 297-A. L. D. Blauvelt, State Office Bldg., Denver, engr.

Colo., Denver—Aug. 23, by Dept. Impvt. & Parks, curbing, grading and surfacing 40 blocks North Side Impvt. Dist. 37. $160,000. A. K. Vickery, City Hall, engr.

Washington—Aug. 30, by State Hy. Comn., Olympia **(S. R. means State Road)**, grading 8.7 mi. S.R. 9, Jefferson Co. and 1 mi. S.R. 3, Whitman Co.; crushed graveling, etc. 23,000 cu.yd. S.R. 3, Ferry Co., 4,300 cu.yd. S.R. 2, Chelan Co.; crushed rock surfacing 13,600 cu.yd. S.R. 11, 4,000 cu.yd. S.R. 3, Spokane Co. and 6,000 cu.yd. S.R. 3, Kittitas Co.; also concrete paving, etc. 33,000 sq.yd. S.R. 1, Snohomish Co., and 80,000 sq.yd. S.R. 2, King Co. S. J. Humes, highway engr.

Calif., Stockton—Aug. 29, by E. Graham, clk. San Joaquin Co., graveling 1.98 mi. Murphy Ferry Rd., and 3.02 mi. Morrison Rd.; also gravel on crushed rock paving 2.5 mi. Durham Ferry Rd. and 2.35 mi. Taylor's Ferry Rd. F. E. Smith, co. surveyor.

Ontario—Aug. 20, by R. M. Smith, ch. engr., Parliament Bldgs., Toronto, grading, concrete, asphalt, tar bound macadam paving, also culverts and overhead crossings. Contrs. 27-88, 89, 90, 91, 92, 93, 94, and 95.

Contracts Awarded

N. Y., New York—W. J. Flynn, acting pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading Loring Pl., to Asphalt Constr. Co., 2197 Madison Ave., $19,595, East Tremont Ave. to P. J. Donovan, 30 Church St., $53,618, and West 175th St. and asphalt block paving East 153rd St. to Burnside Contg. Co., 270 Burnside Ave., $14,823 and $15,570 respectively, Clark Pl., to C. D. Beckwith Co., Seneca Ave. and Edgewater Rd., $28,662; granite block paving East 168th St. to St. George Paving Co., 415 Lexington Ave. $33,937. Grand total $166,205. Noted July 28.

N. Y., Poughkeepsie—Bd. Pub. Wks., Eastman Park Mansion, grading and 2-in. sheet asphalt paving on concrete base Dean Pl., Academy and New Market Sts. to Spoor-Lasher, 16 Cannon St., $68,988. Noted July 21.

New Jersey—State Hy. Comn., Trenton, concrete paving 1 mi. Toms River Cutoff to Richards & Gaston, Somerville, $199,957; 1 mi. road Morristown to Convent Station to E. H. Ellis, Wilson Bldg., Camden, $89,031; extending Route 1 over South St. and 1st Ave., Newark, to Bowe & Millimet, Union City, $954,007. Grand total $1,242,995. Noted July 28.

N. J., New Brunswick—Bd. Freeholders, Middlesex Co., paving 12,406 ft. Jamesburg-Englishtown Rd., Kingston-Monmouth Junction and South Plainfield Rds., to C. Sebolt, New Brunswcik, $93,697.

N. J., Rahway—Rahway Council, concrete paving 0.75 mi. Maple Ave., to Elizabeth Paving Co., 715 Elizabeth Ave., Elizabeth, $27,025.

N. J., Roselle (Ind. br. Elizabeth)—Boro Council, sheet asphalt paving Crescent and 8th Aves., to G. H. Winans, 205 Broad St., Elizabeth, $17,172; Grand St., to Stryker & Stryker, Red Bank, $4,280; 5th Ave., to J. B. Gilligan Casey Co., 972 Broad St., Newark, $15,392. Grand total $36,844.

Pennsylvania—State Hy. Comn., Harrisburg **(A. means Application and R. Route)**, grading 53,900 cu.yd. R. 93, Sect. 3, Warren Co., to C. H. Fry Constr. Co., Erie, $57,269; grading and concrete paving, etc., 8,000 sq.yd. R. 268, Sect. 7 A, Washington Co., to Mosteller & Virgin, Wilkinsburg, $66,554, 2,807 sq.yd. R. 118, Sect. 1 A, Washington Co., to Jones Constr. Co., Beallsville, $36,380, 3,875 sq.yd. R. 20, Lycoming Co., and rein.-con. paving, etc., 28,576 sq.yd. A. 4057, R. 468, Susquehanna Co., to United Constr. Co., Lock Haven, $30,523 and $144,059 respectively; concrete paving, etc., 32,000 sq.yd. R. 35 and 36, Franklin Co., and 11,406 sq.yd. R. 40, Cumberland Co., to G. I. Thompson Constr. Co., Clearfield, $115,968 and $54,729 respectively; rein.-con. paving 1,932 ft. R. 357, A. 3701, 16 ft., Jefferson Co., to J. B. Trexler, Lewistown, $13,891, 26,700 sq.yd. R. 218, Sect. 2, Clarion Co., to J. McCarthy Constr. Co., Kaukauna, Wis., $105,388, 21,202 sq.yd. R. 138, Lancaster Co., to Swanger-Fackler Constr. Co., Lebanon, $78,256, and 18,834 sq.yd. R. 68, Sect. 6, Westmoreland Co., to McPherson Bros., Edgeworth, $76,629. Grand total $779,646. Noted June 30.

Md., Baltimore—Sheet asphalt paving 9,420 sq.yd. streets listed in Contr. 419, to P. Flanigan & Sons, Harford Rd. and B. & O. R.R., $50,173.

Md., Towson—Bd. Comrs., Baltimore Co., grading and concrete paving 2 mi. Monkton-Manor Rd., Group 2, to H. T. Campbell & Sons, Towson, $55,248.

D. C., Wash.—District. Comrs., District Bldg., improving streets listed in items 1 and 2 to G. B. Mullin Co., 4th and Rhode Island Ave., N.E. and items 3, 4, 5 and 6 to W. F. Brenizer Co., 101 New York Ave. Noted July 21.

West Virginia — State Road Comn., Charleston, to F. C. Sammons, Huntington, gravel surfacing 6 mi. Project 2164 Lincoln Co. $44,421, 6 mi. Project 3169 Lincoln Co. $18,163 and 6 mi. Projects 3282 and 3288 Logan Co. $59,873, to Echols Constr. Co., Cass, 5.5 mi. Project 3282-A Lincoln and Logan Counties $48,833, 4 mi. projects 2169 and 3169 Lincoln Co. $36,348, stone base course surfacing 4 mi. Project 137-C Monroe Co. $79,571 and grading 7 mi. Project 3214-C Hardy Co. $96,965, to Janutola & Co., Fayettesville, gravel surfacing 4.7 mi. Projects 68 and 3181 Nicholas Co. $23,990 and bituminous macadam surfacing 5 mi. Projects 3375-A, B and C, Summers Co. $110,950, to Abbott Constr. Co., Charleston, gravel surfacing 5.5 mi. Projects 68, 69 and 3180 Nicholas Co. $26,500, to Greenwalt Bros., Youngstown, O. 11 mi. Project 3074-A, B and D, Jackson Co. $25,560, to R. L. Vaught, Pt. Pleasant, 7 mi. Projects 3326-C, 3332-A and B, Putnam Co. $27,594, to M. Balazick, Jefferson, Pa., 14 mi. Project 2047-A and B, Nicholas Co. $115,900, to W. McCormick, Kincaid, 3.6 mi. Project 3164-A $31,556 and 3.5 mi. Project 3164-B Jackson Co. $30,804, to T. E. Miller, 619 5th St., Huntington 5.7 mi. Project 3315 Mason Co. $23,703, to H. S. Gay, Jr., Logan, 2.7 mi. Projects 150-A and 3290 Logan Co. $16,494, to Monongahela Constr. Co., Fairmont, bituminous macadam surfacing 5.8 mi. Projects 1 and 2 of 151-E, Preston Co. $197,911, to Cole Bros. Co., Morgantown, 11 mi. Project 151-E Preston Co. $434,223, to Handley & Callas, Lewisburg, 4 mi. Project 136-E $132,995 and grading 5 mi. Project 136-D both Greenbrier Co. $87,051, to H. W. Curry Co., Ripley, surface treating 8 mi. Project 3075-B and C Jackson Co. $10,870 and stone base course on 2.3 mi. Project 3259 Kanawha Co. $27,450, to Rosenbaum Bros., Pocahontas, stone base course 4 mi. Project 137-B Monroe Co. $40,932, to Hi-Way Constr. Co. Oak Hill 1.78 mi. Project 157-A Fayette Co. $21,900, to A. Keathley, Prof. Bldg., Charleston, 1.55 mi. Project 157-A Fayette Co. $16,105; to H. W. Kaylor, Hagerstown, Md., 3.5 mi. concrete shoulders on Project 67 Berkley Co. $36,048, to Minns & Dodd, Spencer, 3.5 mi. Project 67, Berkley Co. $33,774; to P. S. Horner Co., Clarksburg, bituminous macadam surfacing and concrete shoulders 3 mi. Project 3225, 1st section, Harrison Co. $113,471 and 1.77 mi. Project same road, 2nd section $72,[illegible]71; to C. Sergeant, Pomeroy, O., placing gravel surfacing on 3.75 mi. Project 3352 Mason Co. $12,540, to J. W. Graybill, Charleston, 3.75 mi. Project 3352 Mason Co. $13,326, to J. H. Hood, Huntington, grading, etc. 6 mi. Project 3380-B, Preston Co. $65,022, to Cain & Thurman, Charleston, 5 mi. Project 3285-D, Clay Co. $101,072, to Voso & Ritchie, Ravenwood, 6 mi. Project 3337-A Wood Co. $176,433, to Piper & East, Princeton, 5 mi. Project 3337 Wood Co. $104,661; to Western Rivers Co., Pt. Pleasant, delivering 20,000 cu.yd. gravel at Leon, Arbuckle or Robertsburg, Project 3352 Mason Co. $28,800, 20,000 cu.yd. at or near Red House, Projects 3326-C, 3332-A and B Putnam Co. $30,800; to Fuccy Bros., Weston, concrete paving 4 mi. Project 152-A Randolph Co. $129,569 and to Keeley Constr. Co., Clarksburg 3.5 mi. Projects 3029 and 3143-A Tucker Co. $90,480. Grand total $2,794,729. Noted June 30 and July 7.

Miss., Carrollton—Bd. Supervs. Carroll Co., improving 14.437 mi. Federal Aid Project 46-A, to S. K. Jones Constr. Co., Cotton Exch. Bldg., Memphis, Tenn. Engrs. est. approximately $100,000. Noted July 7.

Tenn., Chattanooga—Hamilton Co. and State Dept. Highways & Pub. Wks., Nashville, widening 3 mi. State Road 2, near Mission Ridge Tunnel, to Brown Contg. Co., Chattanooga, approximately $25,000.

O., Cincinnati — Improving Walnut St. 2,800 sq.yd. granite block, 7,300 sq.yd. sheet asphalt paving and 3,500 sq.yd. cement sidewalks, etc., to Holmes Constr. Co., Central Parkway and Ann St. $53,059. Engrs. est. $57,815. Noted Feb. 17.

O., Cleveland—Comrs. Cuyahoga Co., 10 in. concrete paving Wastrick Rd. 2, to Ohio Engineering Co., Lorain. $94,945.

O., Cleveland—Comrs. Cuyahoga Co. 67,000 sq.yd. 4 in. vitr. brick on 70,400 sq.yd. concrete paving, etc. Lorain Rd., to Cleveland Trinidad Paving Co., Western Reserve Bldg. $436,450.

O., Cuyahoga Falls—Asphalt paving, etc., South Main and South 8th Sts., to T. E. McShaffrey Constr. Co., 173 South Forge St., Akron, $82,297 and $26,762 respectively.

O., Euclid—Sheet asphalt paving Tracyline St., to Cleveland Trinidad Paving Co., Western Reserve Bldg., Cleveland $30,818.

Michigan—Concrete paving 3.647 mi. Mo 59-18 Sec. A., Montcalm Co. and 1.591 mi. Mo 34-26-C-2 Ionia Co., to State Constr. Div. Capital Natl. Bank Bldg., Lansing.

Mich., Berkley—Concrete paving 8,100 sq. yd. roads in Assessment Dist. 58, to R. D. Baker, 1631 Elmhurst Ave., Detroit, $36,621.

Mich., Detroit—Constructing 3½ in. sheet asphalt on 8 in. concrete paving Newton Ave. from Dubois to Jos. Campau Aves. to Bishop & Wier, 955 East Jefferson Ave., $34,147.

Mich., Monroe — Curbing, guttering and concrete paving 16,132 sq.yd. 5 streets, to J. H. Knapp & Co., Monroe, $53,463.

Ill., Alton—Grading, curbing, guttering and 7 in. rein.-con. paving 24,697 sq.yd. Alby Street Paving Dist., to Strubel & Helmich, 1117 West 9th St., $64,337. Noted Mar. 10.

Ill., Chicago—Cook Co. Hy. Dept. paving 1.5 mi. Flavin Rd., to J. P. O'Keefe, 7854 South Ashland Ave., $65,622; 4.6 mi. Crawford Ave., to R. F. Conway Co., 844 Rush St., $158,368.

Ill., Edwardsville—Supervisor of Highways, Madison Co., grading, concrete paving, etc. 1.5 mi. Edwardsville-Poag Highway, 18 ft., to J. Kesl & Son, Title Guaranty Bldg., St. Louis, Mo., $28,426. Noted July 21.

Ill., Galesburg—Grading, curbing and guttering 7 blocks Arnold, Hancock and Phillips Sts., to H. H. Gunther, 600 East Main St., $37,639. Engrs. est. $40,009. Noted July 28.

Ill., West Frankfort—Grading, curbing and concrete paving, etc. Paving Dist 6, to Midwest Eng. Co., Mt. Vernon, $75,140.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., grading 11th and Morgan Aves., to R. H. Gumz, 831 23rd Ave. $4,023 and $4,212 respectively; grading and paving, etc., Galena St., to White Constr. Co., 68 East Wisconsin Ave. $18,276, Teutonia Ave., to W. Hunt, 445 Milwaukee St. $31,707, 1 alley each, to Eastern Constr. Co., Milwaukee, $491, and F. W. Blodgett, 521 Newton Ave. $2,558, Jackson St. and 2 alleys, to Schrawkowski & Sons Co., 998 Dousman St. $8,960 and $5,183 respectively. Grand total $77,705.

Ia., Eagle Grove — Brick paving 20,000 sq.yd. various streets, to G. G. Herrick Co., Des Moines, at $1.89 per sq.yd.

Ia., Le Mars—Plymouth Co. graveling 19.79 mi. Hinton-Kingsley Rd., to Pickus Constr. Co., Sioux City, $43,006.

Minnesota—State Hy. Comn., St. Paul, approximately 287,000 cu.yd. State Project 10-55, Federal Aid Project 382, to Erickson-Johnson Constr. Co., and R. B. Fraser Constr. Co., 3631 22nd Ave. S., $91,502; and culverts, to A. Beckman & Co., Lake City, $16,500. Noted July 21.

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Streets and Roads (Continued)

Neb., Lincoln—Grading, curbing, asphaltic concrete paving, etc. 26,500 sq.yd. in Paving Dist. 755, to Abel Constr. Co., 308 Terminal Bldg., $77,339. Engrs. est. $79,000.

Neb., Lyons—Grading and 6 in. rein.-con. paving, etc. approximately 8,000 sq.yd. various streets, to John Kerns Constr. Co., 210 Bankers Reserve Life Bldg., Omaha at $2.08 per sq.yd. Engrs. est. $25,000. Noted June 9.

Mo., Clayton (Br. St. Louis)—Comrs. St. Louis Co., to Bangart Bros. Constr. Co., 120 South Florrisant Rd., St. Louis Co., telford macadam paving, etc. 205 blocks Marvin Ave., $5,332; to Moore Bros. Constr. Co., 2000 St. Clair Ave., East St. Louis, Ill., 1,200 sq.yd. Central Ave. $3,645, 1,860 sq.yd. Greenway St. $6,425, 1,700 sq.yd. Webb Place $5,377; and to Emil Steffen, 4760 Seibert St., St. Louis, rock paving Louis Ave. $2,543. Grand total $45,499. Noted July 14.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, concrete paving, etc. alleys in City Block 2573, to Eyermann Contg. Co., 1216 South Grand Blvd. $4,151, and alley in City Block 5395, A. Lewald, Inc., 6025 West Cabanne Ave. $2,679; rein.-con. paving, etc. 11,000 sq.yd. Goodfellow Ave. to Skrainka Constr. Co., Security Bldg. $46,059, and 3,900 sq.yd. Goodfellow Ave. between Stratford St. and Lilian Ave., and 4,450 sq.yd. Goodfellow Ave. between West Florissand and McLaran Sts., to T. P. Connors & Sons, 705 Market St. $15,074 and $16,821 respectively; warrenite paving, etc. 20,000 sq.yd. Kingshighway Southwest to Central Paving & Constr. Co., 6161 Maple Ave. $119,171; warrenite bithulithic paving, etc. 2,615 sq.yd. Itaska St., to Granite Bituminous Paving Co., Ry. Exch. Bldg., $16,927; and amiesite paving, etc. 710 sq.yd. 38th St. to Webb-Boone Paving Co., 1503 Fyler Ave. $4,909. Grand total $225,791. Noted June 30.

Ark., Little Rock—Pulaski Co., grading and asphaltic concrete paving 12 mi. 12th St., from city limits to Ferndale, Districts 11 and 12 to D. D. Hill & Co., Revilo Hotel, $191,000.

Tex., Cleburne—Paving East Henderson St. from Boyd St. to point 110 ft. east line of Braxos Ave. and 7 blocks North Buffalo from West Willingham to Williams St. to West Texas Constr. Co., Cleburne, $28,000, $25,000 respectively. Noted July 14.

Tex., Galveston—Galveston Co., grading, bridging and paving 4.96 mi. Highway 6, 20 ft., to J. W. Zempster, Galveston, $185,502.

Tex., Laredo—Webb Co. concrete paving 10.781 mi. Highway 12-A, to H. B. Zachary, Laredo, $259,922. Noted Mar. 24.

Tex., McGregor — Hard base with asphalt topping paving 25,000 yd. various streets, to F. P. McElwrath, Corsicana. Approximately $42,000.

Tex., McLean—Gray Co. 3 in. brick on 5 in. concrete paving 4 blocks and 5 street intersections, to Panhandle Constr. Co., Lubbock. $35,158. Engrs. est. $38,000.

Okla., Pond Creek—Grading, curbing and concrete paving 16,700 sq.yd. Main St., to E. W. Baker & Co., 408 Medical Arts Bldg., Oklahoma City, $43,939. Engrs. est. $51,809.

Colorado—State Hy. Dept., Denver, grading and concrete paving etc. 1.239 mi. Santa Fe Trail, to Pueblo Co., 16 ft. to Strange-Maguire Paving Co., 1st Natl. Bank Bldg., Pueblo, $37,850.

Washington—State Hy. Comn., Olympia **(S. R. means State Road)**, crushed rock surfacing 7,740 cu.yd. S. R. 12, Pacific Co., to John Slotte & Co., Inc., 593 Bond St., Astoria, Ore., $24,788; crushed graveling, etc., 11,300 cu.yd. S. R. 9, Mason and Jefferson Counties, to Edland & White, 302 South 30th St., Tacoma, $14,336, and 4,110 cu.yd. same road Clallam Co., to C. E. Martin, R. F. D. 3, Box 160, Seattle, $6,083; also grading and concrete paving 28,541 sq.yd. S. R. 3, Federal Aid Project 135-B, Whitman Co., to C. A. Powers, 1703 South Grand Blvd., Spokane, $89,732, and 26,159 sq.yd. S. R. 8, Clark Co., to United Contg. Co., 310 Stock Exch. Bldg., Portland, Ore. $68,667. Grand total $203,606. Noted July 21.

Washington—State Hy. Comn., Olympia, **(S. R. means State Road and F.A.P., Federal Aid Project)**, grading 123,000 cu.yd. S.R. 9, F.A.P. 166-A, Clallam Co., to J. M. Clapp, 637 Burke Bldg., Seattle $108,909, 189,000 cu.yd. S.R. 8, F.A.P. 144-B, Skamania Co., to Myers & Goulter, 2621-Franklin Ave., Seattle $121,440, and 168,000 cu.yd. S.R. 9, F.A.P. 113-B, Sect. 2, Jefferson Co. to Holmberg & Norman, P. O. Box 659, Port Orchard $299,616; grading and crushed rock surfacing 14,000 cu.yd. S.R. 3, Sect. 2, F.A.P. 152-B, Whitman Co., to C. Nyberg, 741 Peyton Bldg., Spokane $60,220; grading and concrete paving, etc. 23,000 sq.yd. S.R. 1, Lewis Co. and concrete paving 1.11 mi. gaps between Kalama and Toledo also at Woodland, Cowlitz and Lewis Counties, to P. Neilan, 307 Walker Bldg., Seattle $99,547 and $45,955 respectively; and concrete paving 71,000 sq.yd. S.R. 3, Spokane Co., to Albertson, Cornell Bros. & Walsh, 1113½ A St., Tacoma $197,250. Grand total $932,937. Noted July 21.

Wash. Seattle—Grading, concrete sidewalks, etc. on 40th Ave. North, et al., to J. Paduano & Co., 1546-12th St. South $30,387.

Calif., Ontario—Grading, etc., 5th Ave., and California St., to Griffith Co., Railway Bldg., Los Angeles, approximately $30,500.

Calif., San Francisco—Grading, etc., at Municipal Airport to Eaton & Smith, 715 Ocean Ave., $28,176. Noted July 28.

Calif., Santa Ana—Orange Co., rein.-con., paving, etc. Ocean, Westminister ,and Los Alamitos Aves., to B. W. Hicks, 2364 Atlantic Ave., Long Beach, $42,186.

Calif., Ventura—Concrete paving 382,915 sq.ft. streets in Ventura Beach Tract, to Fleming Constr. Co., 105 North Park Ave., Pomona, $129,255. Noted July 28.

Ontario—Dept. Pub. Highways, Parliament Bldg., Toronto concrete paving 3 mi. highways in Mildway and Clifford, to W. W. King, Oakville; grading, concrete paving, etc. 1.7 mi. highway from Burlington Beach Cut-off to Main St., to R. Honsberger, Vineland. Engrs. est. $100,000. Noted July 14.

Ont., Lindsay—Sheet asphalt paving 1 mi. various streets to Standard Paving Co., Ltd., Central Chambers, Ottawa. Engrs. est. $40,000.

Ont., Toronto—North York Twp., macadam paving approximately 1 mi. Felbrigg Rd., Brook and Lochiel Sts., Haddington and Esgore Aves. to Orr & Clark, 303 Northern Ont. Bldg., Toronto. Engrs. est. $25,000.

Ont., Welland — Grading, curbing and sheet asphalt paving 20,000 sq.yd. various streets, to Brennan Contg. Co., 400 Gage Ave. N., Hamilton. Engrs. est. $90,000.

Ont., Welland — Welland Co., macadam paving 4½ mi. roads, to Dufferin Constr. Co., foot of Bathurst St., Toronto. Engrs. est. $80,000.

B. C., Nelson—For 6-in. concrete paving 20,000 sq.yd. various streets, here, to Carter-Halls-Aldinger, Ltd., 500 Beatty St., Vancouver $52,703.

B. C., South Vancouver—Concrete paving Fraser St. and Victoria Dr., to Armstrong, Morrison Paving Co., Ltd., 543 Granville St., Vancouver, $28,000.

Buildings—Commercial

Proposed Work

Mass., Cambridge (Boston P. O.)—WAREHOUSE—Jordan Marsh Co., 450 Washington St., Boston, plans altering and constructing rein-con. and brick, plain foundation, here. $150,000 or more. Engineer and architect not selected.

Mass., Lawrence—BANK—J. E. Allen, archt., 283 Essex St., soon lets contract 2 story and basement, rein.-con. brick, steel and limestone, plain foundation, Essex and Hampshire Sts., for Bdwy. Savings Bank, 522 Essex St.

Mass., Long Island (Ind. Sta. Boston)—DORMITORY—City of Boston, Institutions Dept., City Hall, plans men's dormitory, here. $150,000 or more. J. H. Ritchie & associates, 250 Stuart St., archts.

Mass., North Attleboro—THEATRE and STORE—S. Williamson, Pemberton Bldg., Boston, having preliminary plans prepared by Schein & Levine, 448 Bway, Chelsea, 1 and 2 story and basement, 70 x 110 ft., and 50 x 100 ft., rein.-con., brick and steel, plain foundation, Washington St. $150,000.

R. I., Providence—BANK and OFFICE—Union Trust Co., W. F. Farrell, pres., soon lets contract 12 story, 30 x 48 ft., brick, steel, marble and granite, Westminster and Dorrance Sts. To exceed $150,000. G. F. Hall, 807 Union Trust Bldg., archt. Noted Mar. 31.

R. I., Providence—COURT HOUSE—Providence Co. Comn., Court House, having plans prepared by Jackson, Robertson & Adams, 1216 Turks Head Bldg., and takes bids in September, brick and steel court house, College, Benefit and South Main Sts. $3,500,000.

Conn., Stamford — APARTMENT.—McMahon & Decoteau, c/o Emmens & Abbott, archt., 1 Bank St., had plans prepared 4 story 85 x 170 ft., brick, steel, Glenbrook Rd. $250,000.

N. Y., New York—APARTMENT—Bing & Bing, Inc., 119 West 40th St., having preliminary plans prepared by E. Roth 1440 Bway., 15 story and basement, 100 x 100 ft., brick, steel and stone, plain foundation, 98th St. and 5th Ave. To exceed $500,000.

N. J., Atlantic City—APARTMENT—T. J. Koury, c/o F. Amodio, archt., Commerce Bldg., had plans prepared, 7 story and basement, 50 x 125 ft., brick and steel, plain foundation, Cornwall and Marsdon Aves. $150,000.

N. J., East Orange — APARTMENT — Komb Constr. Co., c/o E. V. Warren, archt., 31 Clinton St., Newark will not build 7 story and basement, brick and steel, plain foundation, 91 Washington St. $500,000. Project abandoned. Noted June 9.

N. J., East Orange—APARTMENT—Owner, c/o A. Ginsburg, archt., Hillside Ave., Nutley, having plans prepared 6 story and basement, brick and steel, plain foundation, Grove St. $150,000.

N. J., Elizabeth—BANK—Peoples Natl. Bank, 113 Broad St., soon takes bids 1 story and basement, brick and steel, plain foundation, 3rd and East Jersey Sts. $150,000. Oakley & Son, 1259 Clinton Pl., archts. Noted June 30.

N. J., Newark — APARTMENT — J. Lember, c/o R. Botelli, archt., 45 Branford Pl., having plans prepared 5 story and basement, 75 x 125 ft., brick and steel, plain foundation, 5 Porter Ave. $200,000.

N. J., Newark—APARTMENT—S. Sherman, 352 Belmont Ave., having plans prepared by E. Gerber, 786 Broad St. 5 story and basement, 75 x 100 ft., brick and steel, plain foundation, 10-16 Custer Pl. $150,000.

N. J., Newark—APARTMENT—Custer Building Co., c/o E. Gerber, archt., 786 Broad St., having plans prepared 5 story and basement, brick and steel, plain foundation, 18-26 Custer Pl. $150,000.

N. J., Newark — APARTMENT — H. Cohen, c/o L. Kasoff, archt., 164 Market St., having plans prepared 5 story and basement, 75 x 150 ft., brick and steel, plain foundation 6th Ave., here.

N. J., Newark—APARTMENT—Tower Realty Co., c/o Siegler & Greenberg, archts., 164 Market St., having plans prepared 5 story and basement, brick and steel, plain foundation 66 Crawford St., here. $150,000.

N. J., Newark—HOTEL—Robert Treat Hotel Co., 154 Park Pl., having preliminary plans prepared by Guilbert & Betelle, 24 Branford Pl., 16 story brick and steel, plain foundation, addition 44 Park Pl., here. $350,000.

N. J., Paterson—APARTMENT—L. F. Eking, c/o R. M. Eking & Co., 45 Church St., had plans prepared 4 story and basement, brick and steel, plain foundation, 529-537 Park Ave., here. $150,000. Private plans.

N. J., Paterson—HALL of RECORDS, JAIL, etc.—Bd. Freeholders, Passaic Co., having plans prepared by H. B. Crosby, 125 Ellison St., 8 story and basement, brick and steel, plain foundation, Grand and Spring Sts. $500,000. Noted June 9.

N. J., Red Bank—CLUB HOUSE—Presbyterian Brotherhood of Red Bank, having sketches made by W. S. Gregory, 1170 Broadway, New York City, 3 story and basement, brick and steel, plain foundation, Broad St. here. $150,000.

N. J., Scotch Plains—HOSPITAL, etc.—Bd. Freeholders Union Co., Court House, Elizabeth, soon takes new bids, 1 story 40 x 90 ft. laundry, 2 story and basement 143 x 245 ft. hospital and 2 story 56 x 80 ft. power house, brick and steel, plain foundation, County Hospital Grounds, here. $200,000. Former bids rejected. Oakley & Son, 1259 Clinton Pl., Elizabeth, archts. Noted July 28.

N. J., South Orange—APARTMENT—Sixty-Two South Munn Ave., Inc. (Kuskin & Rothberg), c/o H. F. Clark, archt., 38 Clinton St., Newark, having sketches made, 10 story and basement, 140 x 198 ft., brick and steel, plain foundation, 62 South Munn Ave., here. $1,500,000.

N. J., Weehawken — APARTMENT — Hamilton Impvt. Co., c/o G. B. McIntyre, archt. 524-17th St., West New York, having plans prepared 10 story and basement, brick and steel, plain foundation, 105 Hamilton Ave., here. $650,000.

Pa., Hanover — THEATRE — Hanover Theatre Co., c/o Glemmell & Billmeyer, archts., Rosemiller Bldg., York, having plans prepared 2 story and basement, 50 x 230 ft. theatre, here.

Pa., Jenkinstown—SALES and SERVICE—P. S. Tyre, archt., 114 South 15th St., Phila., soon lets contract 2 story and basement, 50 x 222 ft., rein.-con. and brick, plain foundation, 708 Greenaway Ave., for R. V. Cook, 250 South 18th St., Phila. $150,000.

Pa., Phila.—APARTMENT—E. L. Rothschild, archt., Bankers Trust Bldg., soon takes subbids 4 story and basement, 94 x 173 ft., rein.-con., brick and steel, plain

Buildings—Commercial (Continued)

foundation, 5220 Wayne Ave., for E. R. Fox, 212 North Broad St. Noted Aug. 4.

Pa., Phila.—APARTMENT—See "Contracts Awarded."

Pa., Phila.—STORAGE—J. L. Gillies, 8515 Germantown Ave., having revised plans prepared by G. Kingsley, 103 East 125th St., New York City, 4 story and basement, 57 x 59 ft., rein.-con. and brick, Germantown Ave., Chestnut Hill. Noted June 9.

Pa., Pittsburgh — WAREHOUSE — May Drug Co., May Bldg., and Hunting, Davis & Dunnells, archts., Century Bldg., soon lets contract 5 story and basement, 72 x 132 ft., rein.-con., brick and steel, Penn Ave. $250,000. Noted May 26. Steam heating, sprinkler system, freight and passenger elevators.

W. Va., Beckley—HOSPITAL—J. H. McColloch, doctor, having plans prepared by Warren, Tucker & Patterson, Charleston, 2 story and basement, 75 x 145 ft. addition, containing two 40 x 40 ft. brick wings. $150,000.

Ga., Atlanta — CLUBHOUSE — Burge & Stevens, archts., 101 Marietta St., soon lets contract 2 story, 48 x 205 ft., and 1 story, 32 x 48 ft. boat house, Brookhaven Dr., for Capitol City Club. $200,000.

Miss., Meridian—SALES and SERVICE —M. R. Adams, 2109 4th St., having preliminary plans prepared 3 story and basement, 100 x 275 ft., rein.-con., and brick, between 4th and 5th Sts., 17th and 18th Aves. $150,000. Private plans.

La., Shreveport—APARTMENT—G. S. Cheesman, Ricou-Brewster Bldg., having preliminary plans prepared 5 story and basement, rein.-con. and brick, Louisiana St. $150,000. Private plans.

O., Cincinnati — APARTMENT — Fechheimer & Ihorst, archts., 1010 Schmidt Bldg., soon lets contract 3 story and basement, 100 x 180 ft., rein.-con. and brick, plain foundation, Rockdale St., for Jefferson Corp., 1010 Schmidt Bldg. Noted Aug. 4.

O., Cleveland—BANK, COMMERCIAL, THEATRE—The International Building & Loan Co., c/o N. Petti, archt., Union Bldg., had plans prepared, 2 story and basement, 91 x 170 ft. rein.-con., brick and steel, East 185th St. and Kileer Ave. $200,000.

O., Cleveland—HOSPITAL—Evangelical Deaconess Hospital, A. A. Kitterer, supt., 4229 West 25th St., having plans prepared by A. E. Skeel, 5005 Euclid Ave., 2 story, 50 x 75 ft. and 50 x 150 ft., brick, steel and concrete, 4229 West 25th St. $300,000. Noted Mar. 31.

O., Cleveland — OPERATING STATION and GARAGE—The Cleveland Railway Co., C. Stanley, purch. agt., Hanna Bldg., having plans prepared by W. Watson & Associates, 4614 Prospect Ave., 2 or 3 story, rein.-con. and brick, Central Ave. and E. 10th St. $200,000.

O., Cleveland Heights (Warrenville P. O.) —APARTMENT—F. Koslen, 1727 Cumberland Ave., having plans prepared by W. A. Schobel, Engr. Bldg., Cleveland, 3 story and basement, 75 x 180 ft. apartment, Euclid Heights Blvd. and Lenox Rd. $200,000.

O., Dayton—OFFICE—Fidelity Building Assn., 5th and Main Sts., having plans prepared by Hermann & Brown, Reibold Bldg., 12 story and basement, 35 x 100 ft., rein.-con., brick, steel and limestone addition, plain foundation, South Main St. $300,000.

O., Orchard Island — HOTEL — E. S. Webb, Lima, plans 280 room hotel, also enlarging bath house, etc., Indian Lake. $300,000.

Mich., South Haven—HOTEL and BATH HOUSE—I. S. Cohen, c/o Leichenko & Esser, archts., 38 South Dearborn St., Chicago. Ill having plans prepared and soon takes bids 3 and 4 story brick, here. $350,000.

Ill., Chicago — APARTMENT — S. Hayden, c/o Van Guten & Van Guten, archts., 28 East Huron St., having sketches made 10 story and basement, 60 x 149 ft., rein.-con. and brick, Eastlake Terrace and Howard St. $500,000.

Ill., Chicago—CLUB—Chicago Beach and Country Club, 28 East Jackson Blvd., having sketches made by J. Eberson, 212 East Superior St., 21 story, 134 x 150 ft., Shore Dr. between 55th and 56th Sts. $2,000,000.

Ill., Chicago — GROCERY STORE and OFFICE — Tebbets & Garland, 16 North Michigan Ave., having preliminary sketches made by A. S. Alschuler, 28 East Jackson Blvd., 20 story and basement, 110 x 180 ft., 16-20 West Washington St. $2,000,000.

Ill., Chicago—HOTEL and CLUB—A. S. Alschuler, archt., 28 East Jackson Blvd., prepared plans and soon takes bids 8 story and basement, 125 x 127 ft., incl. gynasium, etc., 2441 South Parkway, for South Parkway Building Co., c/o R. S. Branch, 1811 Prairie Ave.

Ill., Chicago — STORE — Erskine-Danforth Corp., 315 North Michigan Ave., having plans prepared by P. B. Maher, 157 East Erie St., 5 story and basement, 75 x 100 ft., rein.-con., brick and limestone, Michigan Ave. and Ontario St. $300,000.

Ill., Hillsdale — VILLAGE HALL and MEMORIAL—E. H. Clark, archt., 8 East Huron St., Chicago, prepared plans and soon takes bids 2½ story, brick and stone, here, for Hillsdale Memorial Bldg. Assn. $150,000.

Ill., Marion — HOTEL — Syndicate forming, c/o G. S. Jackson & Co., 1123 Boastmens Bank Bldg., St. Louis, Mo., having plans prepared by Manske & Bartling, 410 North Euclid Ave., St. Louis, Mo., 5 story and basement, rein.-con., brick, stone and terra cotta. $200,000.

Ill., Morris—HOTEL—Syndicate forming, c/o Chamber Commerce, A. I. Meyer, secy., having preliminary plans prepared rein.-con., brick and terra cotta hotel. $150,000.

Wis., Monroe—THEATRE—A. G. Wolff, archt., 453 Mitchell St., Milwaukee, soon lets contract 2 story and basement, 100 x 135 ft., steel, plain foundation, here, for Fischer Paramount Theatres, 36 South State St., Chicago, Ill. $150,000. Noted Nov. 11.

Mo., Cape Girardeau — HOTEL — Cape Girardeau Hotel Co., c/o C. L. Harrison, pres., takes bids about Oct. 1, 6 story and basement, 96 x 150 ft., rein.-con., brick, stone and terra cotta, Bway. at Fountain St. Approximately $250,000. Manske & Bartling, 410 North Euclid Ave., St. Louis, archts.

Mo., Kansas City—OFFICE and STORE —J. H. White, 532 Lee Bldg., having plans prepared by P. Drotts, 423 Reliance Bldg., and soon takes bids 11 story and basement, 111 x 123 ft., rein.-con., brick, steel and terra cotta, here.

Mo., Mt. Vernon—HOSPITAL—Lawrence Co., J. B. Moore, clk., plans 3 story, rein.-con., brick and stone hospital, here. $150,000. Noted May 26.

Ark., Little Rock—HOTEL—C. & W. Conway, c/o Hotel Grimm, Texarkana, having preliminary plans prepared by G. R. Mann, A.O.U.W. Bldg., 16 story and basement, rein.-con., steel, brick and stone addition to New Capitol Hotel, here. $500,000.

Tex., Brownsvills — HOTEL — C. C. McBrunet, having plans prepared by A. F. Korn, Dallas, 5 story and basement, 150 x 200 ft., hotel. $350,000.

Tex., Edinburg — THEATRE — A. Y. Baker, (company being organized) plans 2 story and basement, rein.-con., brick and steel, plain foundation, $300,000. Engineer and architect selected.

Tex., Harlingen — THEATRE — L. L. Dent, and associates, 2009½ Jackson St., Dallas, having revised plans prepared by Birger A. Elwing, Harlingen, and soon take new bids 2 story, 60 x 140 ft., rein.-con., brick, tile and stucco, plain foundation, $150,000. Former bids rejected. Noted Aug. 11.

Tex., Houston — CLUBHOUSE — Arabia Temple, 2908 Main St., having preliminary plans prepared clubhouse, Main St. $500,000. Engineer and architect not selected.

Tex., Houston — WAREHOUSE — Gulf Investment Co., c/o B. W. Steele, pres., 1226 Post Dispatch Bldg., plans 100 x 250 ft. warehouse, Calhoun and Bway. Sts.

Tex., Liberty—COURTHOUSE—Liberty Co. having plans prepared by C. G. Curtis, 807 Paschal St., Houston, courthouse. $250,000.

Tex., Nacogdoches—HOTEL—J. T. Doster 1 East Hanover Circle, Birmingham, Ala., making plans and soon takes bids 3 story and basement, 62 x 125 ft., rein.-con. and brick plain foundation, $150,000. H. D. Breeding, c/o Watts Bldg., Birmingham, Ala., archt.

Tex., Quanah—HOTEL—J. L. Dossett, plans 4 story, concrete hotel. $175,000. Engineer and architect not announced.

Tex., San Angelo—CITY HALL and AUDITORIUM—City, c/o E. V. Spence, plans 3 story, brick, stone and concrete city hall and auditorium. $250,000. Trost & Trost, 2 Republics Bldg., El Paso, archts.

Tex., San Angelo—COURTHOUSE—Tom Green Co., c/o J. T. Mathison, judge, having plans prepared by A. F. Korn, 816 Thomas Bldg., Dallas, 2 story and basement, 64 x 175 ft., rein.-con., brick, steel and stone, $270,000. Noted June 30.

Tex., San Antonio—Salvation Army c/o E. White, colonel, St. Marys St., made plans 6 story and basement, 61 x 63 ft., brick, stone and concrete building. $175,000 or more. A. B. and R. M. Ayres, 626 Bedell Bldg., archts.

Tex., San Antonio—THEATRE—Interstate Amusement Co., c/o Hoblitzelle having plans prepared by J. Eberson, 212 East Superior St., Chicago, Ill., 20 story part basement, 160 x 203 ft., rein.-con., brick, stone, and steel, plain foundation, Houston, Navarro and St. Marys Sts. $2,000,000. Noted Jan. 6.

Okla., Tulsa—BANK and OFFICE—Weary & Alford, archts., 1923 Calumet Ave., Chicago, Ill., prepared plans and soon takes bids 15 story and tower, 60 x 135 ft. addition, brick, steel and stone, here, for Exchange Trust Co., 14 East 3rd St. Archts. est. $1,000,000. Noted Apr. 14.

Nev., Lovelock—BANK and OFFICE—First Natl. Bank, c/o L. A. Friedman, interested, plans fireproof bank and office building. $150,000 or more.

Wash., Seattle—APARTMENT—Stuart & Wheatley, archts., Walker Bldg., take bids about Aug. 19, 4 story and basement, 90 x 238 ft., masonry and terra cotta apartment, Minor Ave. North and Franklin St., for Shelby Investment Co., Walker Bldg. $185,000.

Calif., Glendale—HOTEL—L. A. Ziegler Co., 6001 Santa Monica Blvd., having plans prepared, 5 story, 60 x 100 ft. hotel, Orange and Harvard Sts. To exceed $150,000. Private plans.

Calif., Los Angeles—BANK and OFFICE —Pacific Southwest Trust and Savings Bank, 565 South Spring St., having plans prepared by Meyer & Holler, Wright-Callendar Bldg., 12 story and basement, 75 x 110 ft., steel frame, Highland Ave. and Hollywood Blvd. $500,000.

Calif., Los Angeles—GARAGE and OFFICE—C. H. Johnson, Commercial Exch. Bldg., having plans prepared by K. Macdonald, Jr., Spring-Arcade Bldg., 13 story and basement, 70 x 165 ft., rein.-con., South Bway. $750,000.

Calif., Los Angeles — HOTEL — M. L. Garrigus, 956 Ridgewood Pl., having revised plans prepared by L. L. Jones, Douglas Bldg., rein.-con. and steel, Santa Monica Blvd. and Western Ave. $450,000.

Calif., Los Angeles — LODGE — United Lodge of Theosophists, Metropolitan Bldg., had plans prepared by A. M. Edelman & A. C. Zimmerman, associated archts., 824 H. W. Hellmand Bldg., 2 story and basement, 50 x 150 ft., steel, Grand Ave. at 33rd St. $150,000.

Calif., Los Angeles—LOFT and OFFICE —Foremoan & Clark, 5th St. and Bway., having plans prepared by Curlett & Beelman, Union Bank Bldg., 13 story and basement, 90 x 140 ft., structural steel, 7th and Hill Sts. $500,000. Noted May 5.

Calif., Los Angeles—MOTION PICTURE STUDIO—Mack-Sennett Interests, c/o Austin Co. of Calif., engrs., 777 East Washington St., having plans prepared 2 story, 100 x 125 ft. administration building, shops, property buildings, film laboratory, etc., brick and steel, Ventura Blvd. $350,000.

Calif., Los Angeles—MOTION PICTURE STUDIO—Famous Players Lasky Corp., Film Exch. Bldg., plans studio in vicinity of Malibu Lake, near here. To exceed $750,000. Engineer and architect not selected.

Calif., Pasadena—BANK and OFFICE—First Trust & Savings Bank and First National Bank, soon take bids 9 story and basement, 200 x 230 ft. rein.-con. and steel, Madison Ave. and Colorado St. $1,000,000. Bennett & Haskell, 600 Security Bldg., archts. Noted Dec. 30.

Calif., Pasadena—HOTEL and APARTMENT—A. Fisher having plans prepared by R. A. Hill, 301 Chester Williams Bldg., Los Angeles, 4 story and basement, approximately 60 x 160 ft., brick and steel, Moreno St. $175,000.

Colo., Pueblo—HOTEL—P. H. Philbin Interests, Congress Hotel, purchased site and had plans prepared by Michaelsen & Rognstad, 3815 West Congress St., 17 story and basement, 68 x 120 ft., rein.-con. incl. 13 shops, 4th and Main Sts. $2,000,000.

Calif., Redon'o Beach — THEATRE — Beach Theatres Inc., having plans prepared by J. P. Perrine, Lincoln Bldg., Los Angeles 2 story, 85 x 89 ft. rein. and brick, Diamond St. and Hermosa Ave. $225,000.

Calif., Riverside—THEATRE—El Camino Holding Corp. having plans prepared by M. E. Durfee, 221 Commercial Exch. Bldg., Los Angeles, 2 story, 132 x 196 ft., brick and concrete, 1,800 seating capacity, Market and 7th Sts. $300,000.

Calif., Sacramento — HOTEL and GARAGE—W. D. McCoy, 3031 E St., plans 4 story and basement, 80 x 80 ft. hotel, and 80 x 160 ft. garage, 4th and Eye Sts. $195,000. Engineer and architect selected soon.

Calif., San Bruno—THEATRE—Eschelback & Leatherby, 465 Baden St., having plans prepared fireproof, San Mateo Ave. $150,000. Engineer and architects names withheld.

Calif., San Diego—HOTEL and TERMINAL—Pickwick Stage Corp., 102 West Bway., plans 8 story, rein.-con. addition. $500,000.

Canada — SERVICE STATIONS — Imperial Oil Ltd., 1000 St. Patrick St., Mon-

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Building—Commercial (Continued)

treal, Que., plans additional service stations throughout Canada. $300,000.

Ont., Port Arthur—HOSPITAL—Sisters of St. Joseph having plans prepared fireproof hospital. $250,000. Private plans.

Ont., Sarnia—HOSPITAL—Sarnia Hospital Comn., M. Mackenzie, chn., 308 Vidal St., N., having plans prepared by C. C. Woods, 217½ Christina St., N., 3 story and basement, rein.-con., brick, plain foundation, addition to Sarnia General Hospital building. $150,000.

Ont., Toronto—APARTMENT—Independent Builders Ltd., Temple Bldg., having plans prepared by H. J. Chown, 20 Wayland Ave., 3 story and basement, rein.-con., brick and steel, plain foundation, Bloor St. and Markham Ave. $160,000.

Ont., Toronto—APARTMENT—F. M. Squires, 407 Glenlake Ave., plans 3 story and basement, rein.-con., brick and steel plain foundation, Walmer Rd. and St. Clair Ave., $165,000. J. Hunt Stanford & Son, 57 Queen St. W., archts.

Bids Desired

Mass., Boston—HOSPITAL—City, Hospital Dept., taking bids 7 story and basement, irregular shaped brick and limestone addition, plain foundation, Harrison Ave. $450,000. J. H. Ritchie & associates, 250 Stuart St., archts.

Mass., Boston—STORE—I. Sack, 89 Charles St. taking bids 5 story and basement, brick, plain foundation, 370 Cambridge St. Eisenberg & Feer, 46 Cornhill, archts.

Mass., Boston—STORE and OFFICE—Aug. 23, by Hemingway Estate, c/o Shepard & Stearns, archts., 65 Franklin St., 8 story and basement, brick and steel, plain foundation, 120 Newbury St. To exceed $150,000. Noted June 23.

Conn., Bridgeport—GARAGE and SHOWROOM—E. A. Lambert, 542 Fairfield Ave. taking bids and opens same about August 15, 1 and 2 story, 100 x 240 ft., brick and steel, plain foundation, F. Thompson Inc., 542 Fairfield Ave., archt.

Mass., Brockton—CLUB—Aug. 23, by H. G. Sylvester, chn. building com., 2 story and basement, 50 x 135 ft., brick, plain foundation, West Elm St., for Seville Council Knights of Columbus.

N. Y., Brooklyn — APARTMENT — See "Contracts Awarded."

N. Y., New York—LOFT—See "Contracts Awarded."

N. J., East Orange — APARTMENTS — See "Contracts Awarded."

N. J., Irvington (br. Newark)—APARTMENT—See "Contracts Awarded."

N. J., Kearney (sta. Arlington)—OFFICE—Guilbert & Betelle, archts., 20 Branford Pl., Newark, taking bids 3 story, brick and steel, plain foundation, here for Congoleum, Nairn, Inc., Belgrove Dr. $150,000. Noted July 21.

Pa., Eddystone—OFFICE—Aug. 22, by Simon & Simon, archts., 249 South Juniper St., Phila., 8 story and basement, 46 x 46 ft. and four 53 x 157 ft. wings, rein.-con., brick, steel, granite and architectural terra cotta, plain foundation, near Baldwin Station, for Baldwin Locomotive Wks., S. M. Vauclain, pres., 500 North Broad St. Noted Aug. 4.

Ky., Louisville—BANK and OFFICE—Aug. 22, by Joseph & Joseph, archts., Francis Bldg., 10 story and basement, 40 x 200 ft., rein.-con. and steel, plain foundation, 4th Ave., for Liberty Insurance Bank, 2nd and Market Sts. $800,000. Noted Mar. 3.

O., Columbus—CLUB HOUSE—Aug. 22, by Y.W.C.A., c/o J. A. Beer, 236 15th Ave., 8 story and basement, 90 x 185 ft., brick, steel and stone, incl. swimming pool, showers, etc. South 14th St. $600,000. Meller & Reeves, 205 East Broad St., archts.

O., Shaker Heights (mail Cleveland)—APARTMENT—Van Sweringen Realty Co., Union Bldg., Cleveland, taking bids 2 story, 300 x 300 ft., brick, Moreland Circle. $400,000. Small & Rowley, 1826 Euclid Ave., Cleveland, archts.

Ind., Brazil — HOSPITAL — Sept. 12 by Comrs. Clay Co., C. J. McCullough, 3 story and basement, rein.-con. brick and steel hospital. $165,000. R. Leonard, Peoples Life Bldg., archt. Noted Dec. 30, 1926.

Ind., Corydon—COURT HOUSE—Sept. 7 by Harrison Co., 3 story, 50 x 114 ft. steel and stone. $150,000. Rowler & Karges, 707 Furniture Bldg., archts. Noted May 5.

Okla., Purcell—COURT HOUSE—Aug. 29 A. O. Maddox, chn., McLain Co., 2 story and basement, 78 x 146 ft., rein.-con. and brick, plain foundation, 4th St. $150,000. Hawk & Parr, Cotton Exch. Bldg. Oklahoma City, engrs. Noted May 12.

Calif., Eureka—HOSPITAL—Aug. 25, by F. M. Kay, clk. Humboldt Co., frame or concrete hospital. $200,000 or more. F. T. Georgeson, Standard Bldg., archt.

Contracts Awarded

N. H., Laconia — ARMORY — Military Dept., State House, Concord, 2 story and basement, 85 x 145 ft., rein.-con., brick and steel, plain foundation, Union Ave., to Davison & Swanberg, 57 Amherst St., Manchester. Archts. est. $150,000. Noted July 28.

Vt., St. Johnsbury — HOSPITAL — St. Johnsbury Hospital, J. M. Baslien, pastor, 4 story and basement, brick, addition, plain foundation, Prospect St. to J. M. Swan & Son, St. Johnsbury. Archts. est. $150,000. Noted Feb. 10.

Mass., Boston—GARAGE and STORE—Back Bay Hotels Garage Inc., 260 Tremont St., 3 story, 38,000 sq.ft. floor space, rein.-con., plain foundation, Columbus Ave. and Dartmouth St. to W. M. Evatt Co., 200 Devonshire St. Archts. est. $500,000.

Mass., Mattapan — HOSPITAL and SCHOOL—Prendergast Preventorium, G. Hill, doctor, 29 Beacon St., Boston, 3 story and basement, irregular shaped, brick and stone addition, plain foundation, 100 Harvard St., to Semple & Clark, 44 Bromfield St., Boston, Archts. est $150,000. Noted July 14.

Mass., Quincy (br. Boston)—APARTMENT—R. Guida, c/o R. M. Stowell, archt., 184 Boylston St., Boston, 3 story and basement, 100 x 140 ft., brick, plain foundation, Fenno St. to F. Dilberto, 11 Beacon St., Boston. To exceed $150,000. Noted July 28.

Mass., Stoneham — BANK — Stoneham Five Cent Savings Bank, H. W. Parker, 375 Main St. 1 story and basement, irregular shaped, rein.-con., brick, steel and limestone, plain foundation, 347 Main St., to Hudson Constr. Co., 6 Beacon St., Boston. Archts. est. $150,000. Noted Aug. 4

N. Y., Brooklyn—APARTMENT—Derrivale Building Corp., 50 Court St., will build 4 story, 35 x 100 ft., brick and steel, plain foundation, East 12th St. and Ave. O. To exceed $150,000. Work will be done by separate contracts. M. Courland, 366 5th Ave., New York City, archt.

N. Y., New York—LOFT—A. E. Lefcourt, 1385 Bway., will build 25 story and basement, 25,000 sq.ft. floor space, brick, stone and steel, concrete foundation, 7th Ave. between 25th and 26th Sts., $7,500,000. Work will be done by saparate contracts. Buehman & Kahn, 49 West 45th St., archts. Ventilating, elevators, etc.

N. Y., Rye—OFFICE—New York Telephone Co., 140 West St., New York City, 2 story, rein.-con. and stone, concrete foundation, Purchase St., here, to W. A. Berbusse Puriton Dr., Portchester. Archts. est. $185,000.

N. J., East Orange — APARTMENT — Altshuler & Cohen, 17 Tracy Ave., Newark. will build 4 story, 92 x 172 ft., brick and steel, plain foundation, 49 South Clinton St., here. $225,000. Work will be done by separate contracts. Noted July 14.

N. J., East Orange—APARTMENTS—Sharff & Koplowitz, 207 Market St. Newark will build, 4 story and basement, brick and steel, plain foundation, 251-9 South Orange Ave. $250,000. Work will be done by separate contracts.

N. J Irvington (br. Newark)—APARTMENT—N. S. Kapneck, 26 Wolcott Terrace, Newark, will build 5 story and basement, 58 x 190 ft., brick and steel, plain foundation, 20 38th St. $200,000. Work will be done by separate contracts. Noted Aug. 4.

N. J., Jersey City—BANK—C. H. Ziegler, 75 Montgomery St., archt. general contract 1 story and basement, 30 x 100 ft., brick and steel, plain foundation, to J. Mitchell, Inc., 45 Journal Sq., for Union Trust & Hudson Co., Natl. Bank, 75 Montgomery St. Archts. est. $150,000. Noted July 28.

N. J., Paterson—HOSPITAL—Fanning & Shaw, archts., 49 Ward St., general contract 7 story, 42 x 132 ft., brick and steel, plain foundation, Main St., here, to John W. Ferguson Co., 152 Market St., for St. Joseph's Hospital, 703 Main St. Archts. est. $150,000. Noted June 30.

Pa., Allentown—HOSPITAL—Allentown Hospital Assn., F. B. Gernard, 6 story and basement, 50 x 156 ft., rein.-con., brick, steel, limestone and granite, plain foundation, 17th and Chew Sts., to Butz & Clader, 519 Hamilton St. $306,000. Noted July 21.

Pa., Phila. — APARTMENT — W. L. Murphy, 1517 Pine St., will build 12 story and basement, 30 x 63 ft., rein.-con., brick and steel, plain foundation 17th and Summer Sts. Private plans. Work will be done by separate contracts.

Pa., Phila.—SALES and SERVICE—P. S. Tyre, archt., 114 South 15th St., 5 story and basement, 52 x 160 ft., rein.-con. and brick addition, Broad and Thompson St., to J. S. Rogers Co., Drexel Bldg., for Roberts-Nach Co., Broad and Thompson Sts. Archts. est. $300,000. Noted July 21.

Ky., Louisville—MEMORIAL—Louisville Memorial Comn., Board of Trade Bldg., general contract 3 story and basement, rein.-con., brick and stone, plain foundation, 4th and Kentucky Sts., to Struck Constr. Co., 147 North Clay St., $726,600. Archts. est. $1,000,000. Noted Mar. 10.

Ky., Louisville—THEATRE—J. Eberson, archt., 212 East Superior St., Chicago, Ill., general contract 4 story, 117 x 120 ft., rein.-con., brick and steel, 4th St. near Chestnut St., here, to G. A. Fuller & Co., 140 South Dearborn St., Chicago, Ill., for Theatre Realty Corp., Loew's Theatre Bldg. Archts. est. $1,000,000. Noted July 14.

O., Canton — HOSPITAL — Stark Co. Court, general contract, erecting buildings at hospital for tuberculosis, Louisville and Harrisburg Rds., to Melbourne Bros. Co., Brant Bldg. $449,978; heating and plumbing, to Kaufman Plumbing Co., 905 Market Ave. $124,413.

O., Cleveland—OFFICE, FREIGHT and WAREHOUSE — Pennsylvania R.R. Co., Broad St. Station, Phila., Pa., 1 and 2 story, 50 x 148 and 39 x 143 ft., brick and steel, East 26th St. and Hamilton Ave. here, to Minton-Schobell Co., The Arcade, Cleveland, O. $150,000. Noted July 28.

O., Columbus—OFFICE—Acme Development Co., 17 South High St., 12 story and basement, 71 x 118 ft., brick, steel and terra cotta, East State St., to R. H. Evans & Co., 8 East Long St. Approximately $700,000. Notde July 14.

O., Mansfield—COMMERCIAL and THEATRE—Midwest Properties Co., c/o S. H. Stecker, pres., 1836 Euclid Ave., Cleveland, masonry 2 story and basement, brick and steel theatre, here, to A. Krinsky, 783 East 88th St., Cleveland; and carpentry, to M. Bernstein, 3467 East 142nd St., Cleveland. Archts. est. $250,000. Noted July 21.

O., Youngstown—THEATRE—State Theatre Co., constructing theatre, West Federal St. near Chestnut St., to Shutromp Constr. Co., Youngstown, $150,000.

Ind., Indianapolis—APARTMENT—R. F. Buck, 4422 Central Ave., 6 story and basement, rein.-con. and brick, 15th St. and Pennsylvania Ave. to Foster Engineering Co., 726 K. of P. Bldg. $250,000.

Ind., Indianapolis — AUTO SALES — R. Wilmeth, 720 North Meridian St., 2 story and basement, 77 x 203 ft. brick and steel, 10th and 11th Sts. to W. P. Jungclaus Co., 825 Massachusetts Ave. $150,000.

Ill., Chicago — RESTAURANT and STUDIO—J. R. Thompson, c/o N. Goldenburg, 350 North Clark St., general contract 5 story and basement, 40 x 90 ft., rein.-con., brick, steel and terra cotta, 113 East Chicago Ave., to Krahl Constr. Co., 350 North Clark St. Archts. est. $175,000.

Wash., Seattle — APARTMENT — Denny Way Holding Co., c/o Baker, Vogel & Roush, archts., L. C. Smith Bldg., 4 story and basement, 100 room, class A, fireproof 16th St. and Denny Way, to Sheble & Snyder, Inc., 622 McDowell Bldg. Archts. est. $155,000.

Calif., Oakland—APARTMENT—Bercovich & associates, c/o H. C. Baumann, archt., 251 Kearny St., San Francisco, 1,000 tons structural steel for 16 story and basement, rein.-con. and steel, Grand Ave., to Pacific Coast Eng. Co., foot of 14th St. Archts. total est. $1,000,000.

Buildings—Industrial

Proposed Work

Mass., North Attleboro—REPAIR SHOP and SHOWROOM — Universal Car Co., Attleboro, plans repair shop and auto showroom on South Main St., $50,000. Engineer and architect not selected.

N. J., Newark—CHEMICAL FACTORY—G. W. Carnrick Co., 421 Canal St., New York, N. Y., plans 2 story and basement, brick and steel, plain foundation, 2-24 Mt. Pleasant Ave., here. $40,000. Engineer and architect not selected.

N. J., Piscatawaytown (mail New Brunswick)—GAS PLANT — International Combustion Engine Corp., 200 Madison Ave., New York City having plans prepared low tension carbonization gas plant, at Silver Lake, here. $1,500,000. Private plans.

Tenn., Old Hickory—SILK FACTORY—Dupont Rayon Co. having plans prepared Unit 3 and addition to Unit 2. $4,000,000. Private plans.

O., Baltic — FACTORY — General Clay Products Co., H. Landrum, pres. and treas., Huntington Natl. Bank Bldg., Co-

Buildings—Industrial (Continued)

lumbus, having plans prepared, 2 story, 40 x 100 ft. brick and steel, here. $50,000. Private plans.

O., Hamilton — LIGHT PLANT — City, making preliminary plans municipal electric light plant. $500,000. Froelich & Emery, 2nd Natl. Bank Bldg., Toledo, engrs.

O., Youngstown — ROLLING MILL — Sharon Steel Hoop Co., Wilson Ave., plans addition. $250,000.

O., Zanesville—FACTORY—Weller Pottery Co., Ceramic Ave., having plans prepared, 3 or 4 buildings, rein.-con. and brick to replace fire loss. $400,000. Private plans.

Wis., Milwaukee — PRESS MANUFACTURING—Logemann Bros. Co., 3130 Burleigh St., having plans prepared by E. R. Liebert, 49 East Wells St., 50 x 200 ft., steel addition, plain foundation. $60,000.

N. D., Lehigh—BRIQUETTING and POWER PLANT, etc.—Lehigh Briquetting Co., soon takes bids briquetting and power plant, incl. deep well, 500 g.p.m. pumping plant, 600 hp. plant; sewage disposal plant; water tower and tank; 300 ton coal bunker, etc. $700,000. R. W. Richardson, 301 Zenith Bldg., St. Paul, Minn., engr.

Tex., Donna — ASSEMBLING — Great Western Motor Co., c/o R. J. Lynn, Oakland, Calif., purchased site and having plans prepared 1 story, concrete and brick assembling plant incl. equipment. $100,000. Private plans.

Tex., Ft. Worth — CARBON BLACK PLANT—W. B. Alt Eng. Co., Capps Bldg., making plans carbon black plant. $150,000. Engineer and architect not selected.

Tex., Hale Center—REFINERY—J. Kegan, Plainview and T. Thornton, Amarillo, making preliminary plans oil refinery here. Private plans.

Tex., Ingleside — REFINERY — Humble Oil & Refining Co., Humble Bldg., Houston, purchased 200 acre site and plans oil refinery plant, near here, $250,000; also deepening and widening Turning Basin using dredgings to make 12 ft. fill, $150,000, and steel oil tanks, $500,000. Private plans.

Tex., Jacksonville—ELECTRIC LIGHT PLANT—F. E. Churchill, making preliminary plans electric light plant. $45,000.

Tex., Lockhart—OIL MILL—Lockhart Oil Mill c/o M. Dey, making plans rebuilding plant recently destroyed by fire. $45,000.

Tex., Lubbock — CARBON BLACK PLANT—Skelly Oil Co., plans steel and sheet iron carbon black plant, here. $300,000. Private plans.

Tex., Marfa—COTTON OIL MILL—Big Bend Cotton Oil Co., c/o J. M. Duke, Marfa, purchased site and plans cotton oil mill. $75,000. Private plans.

Tex., Marshall — FACTORY — Marshall Wood Products Co. plans 2 story factory and 2 warehouses. Private plans.

Tex., Mirando City—CARBON BLACK PLANT—U. Carson and associates, Laredo, making preliminary plans, etc., carbon black plant for Cole Oil Fields, near here, $150,000; also plant near Webb, in Webb Co., $125,000. Private plans.

Tex., Mount Pleasant — HARDWOOD MILL—G. C. Ehemann & Co., Memphis, Tenn., making surveys and preliminary plans, etc. hardwood mill, here. $75,000 or more. Private plans.

Tex., Plainview—SKIMMING PLANT—E. C. Hofstra, Amarillo, making surveys, etc., skimming plant on 180 acre site recently purchased. $75,000. Private plans.

Tex., Presidio—MACHINE and REPAIR SHOP—Kansas City, Mexico & Orient Ry. Co., W. L. Churchhill, ch. engr., Wichita, Kans., purchased 320 acre site and making plans machine and repair shop. $200,000. Private plans.

Tex., Seguin—CONDENSING PLANT—Southern Gas Co., c/o Frost Bldg., San Antonio, purchased site and plans condensing plant, $90,000, also natural gas system. Private plans.

Tex., Texas City—POWER PLANT—Texas-Gulf Power Co., plans power plant. $70,000. Private plans.

Ok'a., Harrah—POWER PLANT—Oklahoma Gas & Electric Co., Insurance Bldg., Oklahoma City, having preliminary plans prepared 35,000 k.w. addition to power plant, incl. steam turbine equipment, generators, condensors, etc., here. $400,000. Byllesby Engineering Co., 231 South La Salle St., Chicago, Ill., engr.

Colo., Royal Gorge—POWER PLANT—Southern Colorado Power Co., Pueblo, plans hydro-electric generating power plant. W. N. Clark, genl. mgr.

Wash., Tacoma — STEEL PLANT — Charles Jone & Co., 106 Rust Bldg., plans 60 x 300 ft. steel plant. $200,000.

Bids Desired

Mass., Cambridge (Boston P. O.)—FACTORY—See "Contracts Awarded."

Mass., New Bedford—MACHINE SHOP, etc.—City, W. P. Hammersley, supt. Building Dept., Municipal Bldg., taking bids 1 story, brick, plain foundation, machine shop and storage, Smith St. $50,000. L. L. Brode, 888 Purchase St., archt.

N. J., Newark—FACTORY—See "Contracts Awarded."

Pa., Bethlehem—POWER—Aug. 22, by Central R.R. Co. of New Jersey, A. E. Owen ch. engr., Jersey City, N. J., 1 story and basement, 46 x 80 ft. rein.-con., brick and steel, plain foundation, here. Private plans.

Wis., Wauwatosa—LAUNDRY—Aug. 20, by Peacock & Frank, archts., 445 Milwaukee Ave., Milwaukee, 2 story and basement, 73 x 118 ft., rein.-con., plain foundation, Wisconsin Ave., for Wauwatosa Family Laundry Co., here. $125,000.

Contracts Awarded

Mass., Cambridge (Boston P. O.)—FACTORY—A. R. Hyde Shoe Co., 440 Columbia St will alter and construct 2 story, brick addition, plain foundation, Columbia St. $40,000. Work to be done by separate contracts. Eisenberg & Feer, 46 Cornhill, Boston, archts.

N. Y., Newburgh—PAPER MILL—Spencer-Wynne Paper Co., general contract 1 story, 120 x 340 ft., brick and steel, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O. Archts. Est. $100,000.

N. J., Camden—GARAGE—Pub. Serv. Production Co., archts., Terminal Bldg., Newark, 1 story and basement, 140 x 155 ft., rein.-con., brick and steel, plain foundation, 17th and Stevens Sts. to R. R. Gore, 1712 Ludlow St., Phila., Pa. for Pub. Serv. & Gas Co., 418 Federal St. Noted June 16.

N. J., Newark—FACTORY—Hygienic Tube Co., 88 McWhorter St., will build 1 story 55 x 122 ft., brick and steel, plain foundation, Ave. L and Niagara St. $40,000. Work will be done by separate contracts. A. Peter, 207 Market St., archt.

N. J., Newark — FACTORY — General Lead Batteries Co., 4 Lister Ave., general contract 1 story, 90 x 375 ft., brick and steel, plain foundation, Chapel St., to Miller-Blythe Inc., 415 Lexington Ave., New York City, N. Y. Archts. est. $50,000.

N. J., Rahway — FACTORY — Monte Christi Corp., 67 Campbell St., excavation contract, 1 story, 60 x 175 ft. brick and steel, plain foundation to Miller Blythe, Inc., 415 Lexington Ave., New York City. $40,000.

W. Va., South Charleston (br. Charleston)—PLANT—Westvaco Chlorine Products, Inc., A. M. Pitcher, gen. mgr., 1 story and basement, 40 x 50 ft. boiler house, 40 x 150 ft. rotary convertor building, 210 x 210 ft. cell house, etc., all brick, steel and concrete, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O.

Fla., Tampa—OXYGEN PLANT—Linde Air Products Co., 30 East 42nd St., New York, N. Y., plans 1 story, brick and steel, concrete foundation here. $200,000. Work will be done by separate contracts. Private plans.

O., Cleveland—OFFICE and FACTORY—Modern Mfg. Co., W. F. Bach, secy. and treas., 4734 Hough Ave., 1 and 2 story, 120 x 165 ft. brick and steel to L. Dautel & Son, 5710 Hough Ave. $40,000.

O., Cleveland—FACTORY—Harry Trottner & Co., 235 East 131st St., 1 story, 110 x 114 ft., brick and steel addition, 235 East 131st St., to Minton Scobell Co., Arcade Bldg. Archts. est. $50,000.

O., Cleveland — SALES and SERVICE STATION and GARAGE—N. Perry, c/o Goakes & Dettelbach, Williamson Bldg., 2 story. 50 x 200 ft. brick and steel, 7224 Euclid Ave. to S. W. Emerson Co., 1836 Euclid Ave. $100,000.

O., Columbus—FACTORY—Wolfe Bros. Shoe Co. 40 South Front St., 5 story and basement, 35 x 100 ft. rein.-con., brick and steel, to D. W. McGrath & Sons, 255 East Broad St. $125,000.

Ind., Anderson — FACTORY — Maring Wire Co., Muskegon, Mich., 110 x 250 ft. factory, 31st and Noble Sts., to Ethelman Co., 714 Jackson St. $50,000. Noted June 16.

Mo., Osceola—POWER HOUSE, etc.—Ozark Utilities Co., J. K. Green, pres., Pleasant Hill, constructing 2,000 hp. power plant, low head gravity dam, approximately 400 ft. long, etc., to G. P. Reintjes Co., 2517 Jefferson St., Kansas City. Engrs. est. $250,000.

Tex., Beaumont—POWER PLANT—Gulf State Utilities Co., c/o J. G. Holtzclaw, vice pres., will build 30,000 kw. addition on Neches River, near here, by day labor. $4,000,000. Private plans.

Tex., Houston—PUBLISHING PLANT—Houston Press and Scripps-Howard, Inc., Cleveland, O., 2 story and basement, with tower, 78 x 200 ft., brick, concrete and steel, Rusk, Chartres and St. Emanuel Sts. to D. Hall, Cotton Exchange Bldg., $238,000.

Calif., Long Beach—PLANT—Southern California Edison Co., 306 West 3rd St., Los Angeles, 1 story, 186 x 235 ft. main building, and 2 story, 59 x 85 control house, rein.-con., at Terminal Island, here, to Stone & Webster, Laughlin Bldg., Los Angeles, $850,000.

Buildings—Educational, Religious

Proposed Work

Mass., Agawam—CHURCH—St. David's Church, T. F. Davies, bishop, Episcopal Diocese, Lenox, plans church, $150,000 or more. Engineer and architect not selected.

Mass., Boston—SCHOOL—Church of Our Lady of Grace, T. A. Walsh, pastor, soon take bids 2 story and basement, irregular shaped, brick and stone, plain foundation, Nichols St. $150,000. M. Sullivan, 200 Boylston St., archt.

Mass., Fall River—SCHOOL—City, W. P. Pritchard, chn. School Com. plans Domestic Science School, Rock St., $150,000. Engineer and architect not selected.

Mass., North Adams — SCHOOL — St. Francis Roman Catholic Church, E. F. Danphy, 75 Eagle St., having plans prepared by J. W. Donahue, 1242 Main St., Springfield, 2 story and basement, brick, plain foundation, Eagle St. To exceed $150,000.

Mass., Quincy (br. Boston) — HIGH SCHOOL—City, Public Building Dept., had plans prepared by W. Chapman, 15 Ashburton Pl., Boston, Junior High School, brick and steel addition, at Daniel Webster School. $300,000.

Conn., New Britain—CHURCH—St. John the Evangelist, T. J. Laden, pastor, having plans prepared by H. Ludorf, 122 Main St., Hartford, 1 story and basement, brick, steel and brown stone, East St. $250,000. W. Berg, 410 Asylum St., Hartford, assoc. archt. Noted May 12.

N. Y., White Plains—CHURCH—Church of Our Lady of Mt. Carmel, 70 South Lexington Ave., having plans prepared by R. M. Almiroty, 2 West 45th St., altering and constructing 1 story addition, brick and stone. $170,000.

N. J. Dumont—HIGH SCHOOL — Bd. Educ. Madison Ave. had plans prepared by Hacker & Hacker, Main St., Fort Lee, 2 and 3 story, brick and steel, plain foundation, New Milford Ave., here. $450,000.

N. J., Newark—SCHOOL—Bd. Educ., City Hall, plans 3 story and basement, brick and steel, plain foundation, 1st Ave. between 10th and 11th Sts. $375,000. Engineer and architect not selected.

N. J., Newark—SCHOOL—Bd. Educ., City Hall, having revised plans prepared by F. Grad, 1023 Broad St., 3 story and basement, brick and steel, plain foundation, Bragaw Ave., here. $400,000. Noted July 14.

N. J., New Brunswick—SCHOOL—Bd. Educ Livingston Ave. soon takes bids 2 story and basement, 55 x 130 ft., brick and steel, plain foundation, Wyckoff and Bartlett Sts. $150,000. A. Merchant, 52 Patterson St., archt. Noted June 2.

N. J., North Bergen (Ind. br. Weehawken) —SCHOOL—Bd. Educ., Town Hall, Hudson Blvd., having plans prepared by F. Hensel, 254 Summit Ave., Union City, 3 story and basement, 150 x 175 ft., brick and steel, plain foundation 38th to 39th Sts. between Hudson Blvd. and Midway Pl. $850,000. Noted May 26.

N. J., Princeton—HIGH SCHOOL—Bd Educ. having plans prepared by E. Sibley, 1034 Edgewood Lane, Palisade, 2 story and basement, brick and steel, irregular size, plain foundation, North Moore St., here. $750,000. Noted May 17.

N. J., Tenafly—SCHOOL—Bd. Educ., Borough Hall, Washington Ave., plans 2 story, brick and steel, plain, foundation, here. $150,000. Engineer and architect not selected.

N. J., Trenton—HIGH SCHOOL—Bd. Educ., having plans prepared 2 story and basement, brick and steel, plain foundation, Chamber and Hamilton Aves. $3,000,000. Noted May 17.

N. J., Trenton—SCHOOL—Hamilton Twp., plans additions to 3 schools. $320,000. W. A. Keman, First Natl. Bank, Trenton, engr.

Pa., Glassport — HIGH SCHOOL — Bd. Educ., having plans prepared by H. C. Clipper, Century Bldg., Pittsburgh, 2 story and basement, brick and steel, here. $175,000.

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Buildings—Educational, Religious (Cont.)

Pa., Phila.—TRAINING SCHOOL—University of Pennsylvania, 34th and Spruce Sts., plans teachers training school on campus, here. $1,500,000. Engineer and architect not selected.

Pa., Reading—SCHOOL—School Bd. c/o G. Beggs, having plans prepared by Mahlenberg Bros., 511 Penn St., 2 story and basement, 231 x 239 ft., rein.-con. and brick, plain foundation, 5th St. below Spruce St.

W. Va., Bethany — DORMITORIES — Bethany College having preliminary sketches made by A. L. Thayer, Greer Bldg., New Castle, Pa., two brick and steel dormitories. $350,000.

Tenn., Cleveland — SCHOOLS — Voted $150,000 bonds, for school buildings.

O., Dayton—HIGH SCHOOL—Bd. Educ., C. S. Schmidt, clk., rejected bids July 11, North Dayton High School, 2 story and basement, rein.-con. and brick, plain foundation, Webster St. Herman & Brown, Reibold Bldg., archts. Noted Aug. 4.

O., Salem—SCHOOL—City having plans prepared by Owsley Co., 669 Wick Ave., Youngstown, grade school, 2 story and basement, brick and steel Reilly Field. $200,000.

Tex., Corpus Christi—LIBRARY—W. W. Watkin, archt., Houston, soon takes bids 2 story and basement, 85 x 250 ft. library, here, for City. $150,000.

Tex., Lubbock — ENGINEERING — W. C. Hendrick, archt., 1005 1st Natl. Bank Bldg. Ft. Worth takes bids about Sept. 1, brick stone, steel and rein.-con. engineering building, for Texas Technical College c/o E. W. Provence, secy. $240,000.

Tex., San Antonio—SUNDAY SCHOOL—Beacon Hill Baptist Church, c/o W. H. Joyner, pastor, having preliminary plans prepared rein.-con., brick and tile, plain foundation, Fredericksburg Rd. and Ashby Pl. $150,000. Engineer and architect selected soon.

Calif., Girard — BOYS' HOME — Protestant Welfare Assn., Los Angeles, having preliminary plans prepared by C. L. Jay, 871 East Washington St., Los Angeles boys home. $150,000.

Bids Desired

Mass., Attleboro—CHURCH—St. Joseph Roman Catholic Church. A. Berube, pastor, 208 South Main St., taking bids 1 story and basement, brick and stone, plain foundation, $150,000. W. F. Fontaine, 285 Main St., Woonsocket, R. I., archt. Noted June 23.

Mass., Malden (Boston P. O.) — HIGH SCHOOL—City, A. J. Plummer, chn. com., taking bids and opens same about Aug. 19, Junior High School, 2 story and basement, brick and stone, plain foundation, Pleasant St. To exceed $250,000. Desmond & Lord, 1 Beacon St., Boston, archts., C. F. Springall, 84 Sprague St., assoc. archt. Noted July 6.

Mass., Quincy (Boston P. O.)—HIGH SCHOOL—Aug. 23, by City, T. T. McGrath, mayor. Junior High School, 2 story and basement, irregular shaped, brick and stone, plain foundation, Newcomb Pl., $275,000. W. Chapman, 15 Ashburton Pl., Boston, archt. Noted July 21.

Mass., West Roxbury (br. Boston)—SCHOOL—Aug. 18, by Schoolhouse Dept., Boston, 2 story and basement, brick and limestone, plain foundation, Longfellow Dist., here. $200,000. Newall & Blebins, 9 Park St., Boston, archts. Noted June 23.

Conn., West Hartford (br. Hartford) — SEMINARY—St. Thomas Seminary, M. F. McAuliffe, pastor, taking bids 3 story and basement, 60 x 480 ft., 40 x 160 ft., rein.-con., brick, steel and limestone, heating plant, laboratories, dormitories, chapel. Bloomfield Rd., $1,000,000. L. A. Walsh, 51 Leavenworth St., Waterbury, archt. 88th St., Cleveland; and carpentry, to Noted July 28.

N. Y., Brooklyn—SCHOOL—Sept. 7, by W. H. Gompert, archt. and supt. School Buildings, Flatbush Avenue extension and Concord St., P. S. 14, Eastern Blvd. south of Baisley Ave., for Bd. Educ., 500 Park Ave., New York City.

N. Y., College Point (Ind. Sta. Flushing) —SCHOOL—Sept. 7, by W. H. Gompert, archt. and supt. School Building, Flatbush Ave. extension and Concord St., Brooklyn. P. S. 19, 3 story, 180 x 180 ft., brick, steel and stone, plain foundation, 23rd Ave., here, for Bd. Educ., 500 Park Ave., New York City. Noted Jan. 6.

N. J., Pensauken (mail Merchantville)—VOCATIONAL SCHOOL—Aug. 22, by Bd. Freeholders, Camden Co., Court House, 2 story, 148 x 310 ft. administration building, 5 shop buildings, 2 story 62 x 100 ft.; 35 x 100 ft., greenhouse, and 32 x 63 swimming pool, Browning Rd. north of Marlton Pike. Lacking & Hettle, 5 Hudson Bldg., Camden archts.

Ind., Nappenee—HIGH SCHOOL—School Comrs. taking bids, 2 story and basement, 100 x 200 ft., brick, stone and steel, high school. $180,000. E. I. Brown, 309 First Natl. Bank Bldg., archt.

Mich., Pontiac—SCHOOL—Aug. 29, by G. Morris, R.R. 4, 2 story and basement, rein.-con., brick and steel, plain foundation York and Boston Aves., here for Bd. Educ., Dist 5. $150,000. Lane, Davenport & Peterson, 1017 Charlevoix Bldg., Detroit, archts.

Ill., Chicago—SCHOOLS—Aug. 25, by Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., Hookway School, 81st and Federal Sts. and Manley School, Polk St. and Sacramento Ave., both 3 story, 90 x 248 ft. concrete, stone, terra cotta, tile and marble. $500,000. J. C. Christensen, 650 South Clark St., archt.

Ill., East St. Louis—SCHOOL—Aug. 22, by Bd. Educ., J. S. Pidgeon, 600 St. Louis Ave., secy., 2 story and basement, 66 x 131 ft., rein.-con. brick and stone, 74th St. near State St. $150,000. J. G. Steinbach, 155 North Clark St., archt.

Tex., Brownsville — HIGH SCHOOL — Aug. 29, by Bd. Educ., 2 story, rein.-con. and brick, plain foundation, $350,000. Phelps & DeWees, 718 Gunter Bldg., and A. B. & R. M. Ayres, 626 Bedell Bldg., San Antonio, archts.

Tex., San Angelo—HIGH SCHOOL—Sept. 6, by Bd. Educ. c/o S. W. March, Junior College, 2 story, rein.-con., brick and stone, $250,000. Phelps & DeWees, 718 Gunter Bldg., San Antonio, archts. Noted June 23.

Calif., Los Angeles—LIBRARY, AUDITORIUM, etc.—Aug. 25, by Regents of University of California, 855 North Vermont St., constructing library, classroom and auditorium building, etc., Westwood campus. To exceed $150,000.

Bids Received

Mass., Hyde Park (br. Boston)—HIGH SCHOOL—City, Schoolhouse Dept., Boston, 3 story and basement, irregular shaped, brick and limestone, plain foundation, Greenwood St., Metropolitan and Central Aves., from P. Caputa, 363 Hanover St., Boston, $1,123,550. Noted July 28.

Contracts Awarded

Mass., Boston — ADMINISTRATION — President & Fellows of Harvard College, Cambridge, 5 story and basement, 120 x 170 ft., brick, plain foundation, to L. D. Willcitt & Sons, 146 Summer St. Archts. est. $150,000.

Mass., North Andover—CHURCH—Trinitarian Congregation Church c/o G. G. Adams, archt., [illegible]01 Essex St., Lawrence, altering and constructing 1 and 2 story and basement, brick, plain foundation, Pleasant St., to D. J. Costello, 30 Main St., Archts. est. $150,000.

Mass., Roxbury (Boston P. O.)—SCHOOL—City, Schoolhouse Dept., Boston, 3 story and basement, irregular shaped, brick and limestone, plain foundation, Kearsarge Ave. and Winthrop St., here, to M. Cummings Constr. Co., 43 Tremont St., Boston, $437,750. Noted June 30.

Mass. Wellesley — DORMITORIES.—Wellesley College, Haxard Hall and Olive Davis Hall, each 4 story and basement, brick, steel and limestone, plain foundation, to Simpson Bros. Corp., 77 Summer St. Boston, Archts. est. $300,000. Noted July 21.

R. I., Warren—HIGH SCHOOL—Town, C. H. DeWolf, South Main St. Senior and Junior High School, 2 story and basement, brick and stone, plain foundation, South Main St., to Greany & Sherry, 82 Davol St., Fall River, Archt. est. to exceed $150,000. Noted July 28.

Conn., New Haven — GYMNASIUM — Yale University Athletic Assn., 1 story, 160 x 300 ft., rein.-con., brick and steel, Maltby Ave., to Natl. Constr., 151 Court St. Archts. est. $200,000. Noted Aug. 4.

N. Y., Bronxville—(Ind. br .Yonkers)—NURSES HOME — Lawrence Hospital, Pondfield Rd., West Bronxville 5 story, nurses home, to G. N. Schmiedel, Parkway Rd.. Bronxville, Archts. est $150,000. Noted May 5.

N. Y., Buffalo—SCHOOL—Bd. Educ., 900 Genessee St., 3 story, rein.-con., brick and steel, plain foundation here to Frontier Constr. Co., Seneca and Main Sts. Archts. est. $700,000. Noted Mar. 10.

N. Y., Far Rockaway—HIGH SCHOOL—Bd. Educ., 500 Park Ave., New York City, general contract high school, Beach 25th and 29th Sts., here, to Psaty & Furhman, Inc., 153 West 72nd St., New York City, $1,450,971.

Pa., Altoona—HIGH SCHOOL—Altoona School Dist., W. N. Decker, secy., 1500 6th Ave., Senior High School Annex, 3 story and basement, 240 x 300 ft., brick, steel and concrete, 14th St., to J. C. Snyder, Sellingrove, $623,444.

Pa., Mt. Lebanon (Pittsburgh P.O).—CHURCH—Mt. Lebanon United Presbyterian Church, general contract 1 and 2 story and basement, irregular shaped, stone and steel addition, North Liberty Ave., to Henry Busse Co., Main and Wabash Sts., Pittsburgh. Archts. est. $250,000. Noted June 23.

Tenn., Nashville—COLLEGE—Bd. Trustees Vanderbilt University, three 3 story and basement, rein.-con. and stone college buildings, on campus, to Rock City Constr. Co., 150 4th Ave. N., $700,000. Noted June 16.

Ky., Lexington — RECITATION — University of Kentucky, F. L. McVey, pres., 3 story and basement, concrete, brick and steel, to J. P. Hardeymon, Maysville. Archts. est. $250,000. Noted July 21.

O., Youngstown — EDUCATIONAL — Westminster Presbyterian Church, 3 story and basement, concrete, brick and steel educational building adjoining church, here, to L. Adovasio, Youngstown $150,000.

Ind., South Bend — SCHOOL — School Trustees, R. B. Dugdale, pres., 2 story and basement school to H. G. Christman, 306 South Notre Dame St., $137,500. Engrs. est. $200,000.

Mich., Romeo—HIGH SCHOOL—Bd. Educ., general contract 2 story and basement, brick, steel and rein.-con. addition, plain foundation ,to Gallagher-Fleming Co., 6500 Epworth Blvd., Detroit. Archts. est. $150,000.

Ill., Chicago—SCHOOLS—Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., two 3 story, 90 x 240 ft. school buildings, one at 76th and Lincoln Sts., other at 58th and Turner Sts., to S. N. Neilson Co., 3059 Augusta St., $204,963 and $201,963.

Ill., Oak Park—COMMUNITY HOUSE—E. E. and E. C. Roberta, archts., 82 West Washington St., general contract 3 story community house, Oak Park Ave. and Ontario St., to G. Thompson & Son Co., 30 North La Salle St., Chicago, for 1st Baptist Church. Archts. est $250,000. Noted July 7.

Calif., Riverside — HIGH SCHOOL — Trustees Riverside Junior High School Dist., (Cemawa Junior High School), general contract rein.-con. high school, to E. F. Wopschall, 35 North Bway, Pasadena, $237,000. Noted May 5.

Federal Government Work

Bids Desired

Me., Bar Harbor—Altering—Spec. 5406—Sept. 7, by Bureau Yards & Docks, Navy Dept., Wash. D. C., altering buildings at Naval Radio Station, here. Noted Aug. 11.

New York—Dredging—Sept. 12, by U. S. Engineer Office, Army Bldg., Whitehall St., New York City, dredging and rock removal in Mamaroneck Harbor and in Hempstead Harbor. Adv. E. N.-R. Aug. 18.

N. J., Oceanport—Hospital—Sept. 9, by Constructing Quartermaster, Fort Monmouth, constructing hospital building, at Fort Monmouth, here; adv. E. N.-R. Aug. 18.

Va., Yorktown—Magazine Buildings—Spec. 5476—Sept. 7, by Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing 77 magazine buildings, at Navy Mine Depot, here; adv. E. N.-R., Aug. 18.

Ala., Montgomery—Barracks—Sept. 12, at office Quartermaster General, Wash. D. C. constructing barracks at Maxwell Field, here. Noted Jan. 20.

Tenn., Memphis—Shops—Sept. 3, by U. S. Veterans Bureau, Arlington Bldg., Wash. D. C. shop buildings, additions, to main building, etc. at U. S. Veterans Hospital 88, here.

Ill., Sterling—Remodeling—Sept. 1, by Treas. Dept., at office Supervising Archt. Wash. D. C. remodeling U. S. Post office, here.

Wis., Milwaukee—Barges—Sept. 13, by U. S. Engineer Office, constructing 2 steel barges; adv. E. N.-R. Aug. 18.

Mo., St. Louis — Hospital — Sept. 6, by Treas. Dept., at office Supervising Archt. Wash. D. C. improving U. S. Marine Hospital, here.

Wash., Port Orchard—Dredging—Aug. 31, by U. S. Engineer Office, Seattle, dredging in bay, here.

Federal Government Work (Continued)

Bids Received

O., Cincinnati — Conduits, etc. — Treas. Dept., at office Supervising Archt., Wash. D. C., Aug. 3, conduits, etc. here from Michaels & Co., Flat Iron Bldg., Norfolk, Va., $38,470. Noted July 21.

Mo., St. Louis—Barges—U. S. Engineer Office, 428 Customhouse, Aug. 3, 6 steel barges from Howard Ship Yard & Dock Co., Jeffersonville, Ind. $49,272. Noted July 21.

Calif., Rio Vista—Dredging— U. S. Engineers Office, from Paris Bros., Rio Vista, constructing 30,000 to 39,999 cu.yd. retaining embankment near west bank Sacramento River, near here, $0.14; 40,000 to 50,000 cu.yd. $0.129, over 50,000 cu.yd. $0.119 and per hour for other work $6.00.

Contracts Awarded

Rhode Island and Connecticut — Breakwaters—U. S. Engineer Office, Providence, R. I. repairing breakwaters at Point Judith R. I. and Duck Island Harbor, Conn. to Merritt Chapman & Scott Corp., 17 Battery Pl., New York City, N. Y. $194,760. Noted June 23.

D. C., Wash.—Power Plant Equipment—Spec. 5334—Bureau Yards & Docks, Navy Dept., Wash. D. C. power plant equipment for Naval Hospital, here to M. H. Pagenhardt & Co., 2130 Locust St., Phila., Pa. $17,964. Noted Aug. 11.

S. C., Charleston—Rewinding Motors—Spec. 5443—Bureau Yards & Docks, Navy Dept., Wash. D. C. rewinding dry dock pump motors, here to Keystone Electric Co., 110 East Pratt St., Baltimore, Md., $5,800. Noted July 28.

Ill., Batavia—Post Office—Treas. Dept., at office Supervising Archt., Wash. D. C. constructing U. S. Post Office, here to Ring Constr. Co., 95 South 11th St., Minneapolis, Minn., $71,057. Noted June 9.

Nebraska—Wyoming—Power Plant Unit—Bureau Reclamation, Mitchell, Neb., installing (2nd unit) Guernsey Power Plant, North Platte Project, here to Utah Constr. Co., Eccles Bldg., Ogden, Utah, $20,860.

Wash., Puget Sound—Fence—Spec. 5319—Bureau Yards & Docks, Navy Dept., Wash. D. C. renewing yard fence at Navy Yard, here to Gaddis & Dixon, P. O. Box 967, Medford, Ore. $14,612. Noted July 14.

California — Bridges — Dept. Interior, 5 bridges and earth approach fills in Yosemite Natl. Park to Rocca & Caletti, 185 Stevenson St., San Francisco, $157,758.

Unclassified

Proposed Work

Transit Station—Dorchester (Sta. Boston). **Mass.**—City, Transit Dept., 1 Beacon St., Boston, having plans prepared by W. D. Austin, 120 Boylston St., Boston, 1 story rein.-con., brick and steel, plain foundation, Shawmut Station, here. $100,000. E. R. Springall, 1 Beacon St., Boston, engr.

Golf Course—Hyde Park, (br. Boston) **Mass.**—City of Boston, Dept. Pub. Wks., plans golf course, here. $200,000. J. H. Sullivan, comr.

Airport—Scituate, Mass.—F. Chapman and F. W. Darty, plans 25 acres airport, Branch Ave. $50,000. Private plans.

Airport—Taunton, Mass.—City, A. J. McGraw, mayor, plans airport. $25,000 or more. Engineer not selected.

Bulkhead, Docks, etc.—Elizabeth, N. J.—Elizabeth Sash Door & Supply Co., 663 Livingston Ave., making plans concrete and timber bulkhead and docks on plot 300 x 300 ft., and 240 x 240 ft., here. $500,000. Private plans.

Swimming Pool—Pensauken (mail Merchantville), **N. J.**—See "Buildings—Educational, Religious."

Natural Gas System — Texas — West Texas Gas Co., Lubbock, (subsidiary Prairie Oil & Gas Co., Independence, Kan.) making plans natural gas system in Idalou, Lorenxo, Crosbyton and Ralls, $40,000 each, also loop line out of Lubbock and tie with Floydada line $150,000. Private plans.

Pipe Line—Texas—W. B. Alt Eng. Co., Capps Bldg., Ft. Worth, making plans pipe line from Nocona to Ft. Worth. $800,000.

Power Transmission Line—Texas—Gulf State Utilities Co., c/o J. G. Holtzclaw, vice pres., making plans and soon take bids 33,000 volt high power transmission line from Conroe to Huntsville, Trinity and Groveton, $70,000, 60,000 volt line from Dayton to Cleveland and Conroe, $75,000, and 33,000 volt line from Huntsville to Navasota, Madison and Normangee. $125,000. Private plans.

Transmission Line — Texas — Comal Power Co., New Braunfels, Lone State Power Co. (subsidiary), c/o W. B. Tuttle, San Antonio, plans 40 mi. power transmission line to Floresville, incl. Stockdale, Poth, Falls City, etc. $100,000. Private plans.

Golf Course and Swimming Pool—Abilene, Tex.—J. W. Nance and A. T. Jones, making plans golf course and concrete swimming pool. $50,000. Private plans.

Underpass—Amarillo, Tex.—City and Ft. Worth and Denver R.R. Co., C. Gowdy, Denver, Colo., chn. engr., and Chicago, Rock Island and Pacific R.R., C. A. Morse, La Salle St. Station, Chicago, Ill., ch. engr., soon take bids 140 ft. rein.-con. underpass at 3rd St. Crossing, $75,000, also 110 ft. rein.-con. underpass at North Amarillo Crossing, $75,000. J. D. Bartlett, city mgr.

Airport—Colorado, Tex.—A. L. Miller, purchased site and plans airport on Bankhead Highway 3 mi. east here. $75,000. Private plans.

Golf Course—Corpus Christi, Tex.—S. Robertson and J. M. Parker, purchased 819 acres land on Padre Island complete golf course. $100,000. Private plans.

Grain Elevator—Denison, Tex.—Knaur Grain Co., c/o G. Knaur, making plans 52,000 bu. capacity, 114 ft. high rein.-con. grain elevator, with 8 large circular bins and 4 small bins, each 90 ft. deep. Southwestern Eng. Co., Springfield, Mo., engrs.

Oil Tanks—Ingleside, Tex.—See "Buildings—Industrial."

Wharf, Point Isabel, Tex.—Page L'Hoe, Ltd., New Orleans, La., plans 1,600 lin.ft. x 60 lin.ft. rein.-con. wharf. $250,000. Private plans.

Power Transmission Line—Post, Tex.—Texas Utilities Co., Slaton, making plans high power transmission line. $35,000. Private plans.

Airport—San Antonio, Tex.—City making surveys, etc. airport to be located at Remount Station, $100,000. I. Ewig, city engr.

Golf Course, etc.—San Benito, Tex.—F. L. & B. W. Hinkly, making plans golf course on 45 acres land near here, incl. paving $30,000, and waterworks $25,000. Private plans.

Grain Elevator — South Plains, (mail Lockney) **Tex.**—B. Thornton and G. Bean, Lockney, purchased site and making plans 20,000 bu. capacity, steel and concrete grain elevator. $70,000. Private plans.

Gas Pipe Line—Oklahoma and Texas—Phillips Petroleum Co., Bartlesville, Okla., made preliminary plans 250 mi. gas pipe line from Panhandle, Tex. to Norge, Okla. $10,000.000. A. H. Riney, Bartlesville, Okla., ch. engr.

Pipe Line—Enid, Okla.—Champlin Refining Co., Enid, making plans 8 in. pipe line in Garber-Covington Field. $100,000.

Lighting System—Woodward, Okla.—Plans 30 blocks "White Way" lighting system. $30,000. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

Bids Desired

Retaining Wall—Marblehead, Mass.—Aug. 24, by Town, R. Tute, clk. of Bd. concrete retaining wall.

Underground Electric Cable—Phila., Pa.—Aug. 23, by Dept. City Transit, underground electric cable system between City Hall and Fern Rock Terminal Yard, Contr. 156, for Broad Street Subway.

Wharf Extensions—Lake Charles, La.—Sept. 13, by City, extending 734 ft. concrete wharf. $300,000. E. Shutts, Lake Charles, engr.

Swimming Pool — Columbus, O. — See "Buildings Commercial."

Subway and Approaches—Chicago,Ill.—Aug. 23, by Bd. South Park Comrs., 57th St. and Cottage Grove Ave., M. T. Connolly, secy., inner drive subway at Oakwood Blvd. and east approach to Oakwood Blvd. viaduct, incl. pile foundation, rein.-con., footings, abutments, retaining walls, sidewalks, balustrades, etc.

Oil Pipe Line—Cross Plains, Tex.—See "Contracts Awarded."

Contracts Awarded

Comfort Station—Bridgeport, Conn.—See "Sewers."

Subway—Phila., Pa.—Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., approximately 3,020 ft. subway in South Broad St., Contr. 109, to Heymen & Goodman Co., Inc., 880 8th Ave., New York City. $7,629,880. Noted June 16.

Swimming Pool—Lakewood (br. Cleveland), **O.**—Bd. Educ., C. W. Grill, clk., swimming pool, to J. Grant & Son, 3868 Carnegie Ave., Cleveland $22,737; and bath house, to F. H. Vogel, Ridge Rd., Cleveland $70,987. Noted July 14.

Overhead Crossing — Tennessee — State Dept. Highways & Pub. Wks. Nashville, rein.-con. overhead crossing over tracks Nashville, Chattanooga & Louisville R.R. on State Aid Project 339-D, Hamilton Co., to E. A. Wood & Co., Andrews, N. C., approximately $42,200.

Zoological Buildings—Riverside, Ill.—E. H. Clark, archt., 8 East Huron St., Chicago, general contract entrance group, power house and reptile house, here. to H. F. Friestdt & Co., 435 North Michigan Ave., Chicago; heating, to L. H. Prentice Co., 1048 West Van Buren St., Chicago; plumbing, to Murphy Plumbing Co., 1720 South Michigan Ave., Chicago; electrical work, to Freeman-Sweet Co., 9 West Illinois St., Chicago, and sewers and waterworks to T. H. Iglehart, 166 West Jackson Blvd., Chicago, for Chicago Zoological Society, 35 North Dearborn St., Chicago. Archts. est. $300,000.

Barge Terminal—St. Paul, Minn.—A. E. Eggert, city purch. agt., general contract barge terminal at Pigs Eye, and escalator gallery, truck-hauls and machinery, at Mississippi River Terminal, to Struchen & Romer, 655 Shubert Bldg., approximately $150,000 and $34,491 respectively; also equipment for latter project, to Link Belt Supply Co., Chicago, Ill., $13,916. Noted May 26.

Grain Terminal—St. Paul, Minn.—A. E. Eggert, city purch. agt., grain terminal, incl. sacked and loose wheat loading facilities; incline trestle type cradle and wharf barge, trackage, etc., on Mississippi River, near Chestnut St., to Ganley Bros. Co., 544 Endicott Bldg., $139,128. Noted July 7.

Subway — Springfield, Mo. — Main structure National Avenue Subway, 470 cu.yd. each earth and rock excav., 84,600 lb. reinforcing and 161,000 lb. structural steel, 440 ft. waterproofing, 1,170 ft. gas pipe railing, etc., to Pioneer Constr. C., 270 Glover Bldg., Kansas City $44,299. Noted July 28.

Oil Pipe Line — Cross Plains, Tex. — Prairie Pipe Line Co., Independence, Kan., will build 15 mi. 8 in. oil pipe line by own forces. $75,000.

Gas Distributing System—Dalhart, Tex.—A. D. Morton, Bartlesville, Okla., gas distributing system, mains, laterals, etc., here, to Hope Eng. & Supply Co., Tulsa, Okla., and Mt. Vernon, O., approximately $65,000.

Materials

Bids Desired

Conductor Cable—Phila., Pa.—Aug. 23, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila. conductor cable, Contr. 101.

Sand Clay Gravel—Louisiana — Aug. 30, by State Hy. Comn., Baton Rouge, furnishing 40% sand clay gravel for surfacing Lake Providence-Oak Grove Hy. Federal Aid Project 170-B East Carroll Parish, N. W. Bowden, Raymond Bldg., Baton Rouge, highway engr.

Cast Iron Pipe—Stillwater, Okla.—City in market 37,751 ft. 4 in. Class "B" c.i. pipe in 16 ft. lengths. F. R. Hassler, mayor.

Contracts Awarded

Pipe—Milwaukee, Wis.—Central Bd. Purchases, J. W. Nicholson, ch. buyer, 1,200 ft. 8- to 16-ft. Class "C" pipe, and 47 tons special castings, etc., to U. S. Cast Iron & Fdry. Co., 122 South Michigan Blvd., Chicago, Ill. at $38.40 and $73 per ton respectively. Noted July 21.

See proposal advertising on page 138

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Sewerage System—New Jersey

Bids were opened by Passaic Valley Sewerage Commissioners, Newark, Apr. 19, for part of Sect. No. 4, Passaic Valley Sewerage Works, outfall sewerage works, additional sedimentation basins, from (A) Spinnello Construction Co., 493 Monroe St., Orange, (awarded contract); (B) J. L. Sigretto & Sons, Inc., New York City; (C) J. P. White Co., Passaic; (D) J. P. Porter & Sons, St. Catherines, Ont.; (E) J. Sutherland, Inc., Newark; Strange Construction Co., Phila., $892,250; Arthur McMullen Co., New York City, $1,046,600; O'Gara Construction Co., Newark, $1,055,390. The unit bids of the lowest four and highest bidders are as follows:

	A	B	C	D	E
Earth excavation and refilling for sedimentation basins, galleries, etc. (lump sum)	$199,455.00	$52,500.00	$90,000.00	$110,000.00	$115,600.00
50 cu.yd. rock excavation in open excavation	.01	1.50	1.00	3.00	10.00
28,000 cu.yd. concrete masonry with portland cement mortar 1:2:4	12.00	18.00	18.00	18.00	26.00
100 cu.yd. brick masonry with portland cement mortar	35.00	75.00	40.00	40.00	50.00
20 cu.yd. chipping, cutting, and removal of existing concr. and brick masonry	75.00	3.00	50.00	75.00	120.00
For handling and diverting existing sewage flow, etc. (lump sum)	3,000.00	1,000.00	5,000.00	5,000.00	9,800.00
1,200,000 lb. steel reinforcement, complete in place	.06	.07	.06	.04¾	.07¼
2,500 sq.yd. broken stone road surfacing	1.50	2.25	2.50	2.50	1.00
500 cu.yd. broken stone foundation cushion	5.00	6.00	5.00	5.00	5.00
Surface drains, vit. pipe, catch basins, etc., complete in place (lump sum)	1,530.00	200.00	500.00	1,000.00	1,200.00
Gallery piping, cast iron piping, water mains, air mains, etc. (lump sum)	42,000.00	47,000.00	49,937.00	44,500.00	71,000.00
Sluice gates, 40-18 ft. x 24 in., flange type, with wall castings, etc. (lump sum)	16,520.00	14,500.00	13,080.00	18,000.00	23,000.00
Electric wiring and lighting systems in basin galleries, etc. (lump sum)	2,200.00	3,120.00	4,000.00	3,500.00	4,580.00
Miscellaneous iron and steel, including cast iron influent piping, etc. (lump sum)	34,105.00	30,000.00	34,300.00	38,235.00	42,000.00
Timber stop planks, complete with bolts, washers, etc. (lump sum)	3,800.00	3,000.00	4,000.00	3,050.00	4,200.00
Scumboards; twenty sets complete with fittings, etc. (lump sum)	25,000.00	25,000.00	4,000.00	16,500.00	24,800.00
Totals	$746,861	$780,580	$794,617	$815,185	$1,124,080

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Road—Wyoming

Bids were opened by State Highway Commission, Cheyenne, May 10, for constructing Federal Aid Project No. 193-A, 1.14 mi. of Route No. 30 N, Kemmerer Township, Lincoln Co., from (A) A. H. Read Co., Cheyenne, (awarded contract); (B) Wheelright Construction Co., Ogden, Utah; (C) Christensen, Jacobs & Gardner. The unit bids are as follows:

	A	B	C
7956.4 cu.yd. earth excav	$0.65	$1.17	$1.50
50 cu.yd. loose rock excav	.50	1.70	2.00
50 cu.yd. solid rock excav	3.00	2.25	3.00
1,100 cu.yd. gravel surfacing	1.25	2.65	3.00
1,086 lin.ft. 10 in. vitr. pipe culvert	.90	1.15	1.10
104 lin. ft. 24 in. vitr. pipe culvert	3.25	4.35	4.00
3,100 mi. overhaul of surface material	.15	.285	.30
5.08 Class B conc. endwalls	15.00	30.50	32.00
20774.8 sq.yd. conc. pavement	2.60	3.15	2.97
3348.4 lin.ft. curb and gutter	.95	1.25	1.40
489.2 lin.ft. conc. curb	.75	.725	1.00
25 catch basins	25.00	35.00	65.00
7.165 M. ft. b.m. timber headers	60.00	75.00	75.00
3,750 sq.ft. removing walks	.10	.06	.20
3,839 lin.ft. removing curb	.10	.14	.10
Totals	$68,004	$87,317	$88,362

Engineering News-Record, Issue of August 18, 1927.

Paving, Roadwork and Storm Sewers Runnemede, N. J.

Bids were opened by the Boro of Runnemede, July 1, for laying sidewalks, curbs and gutters, improving streets and laying storm sewers, from (A) Pangea Const. Co., Atco, (awarded contract); (B) Riverside Const. Co., Riverside; (C) McCarthy Const. Co., Runnemede. The unit bids are as follows:

	A	B	C
10,792 cu.yd. excav. (roadway)	$0.50	$0.50	$0.50
61,096 sq.ft. sidewalk (4 ft. x 4 in. 1:2:4)	.18	.18	.18
14,234 lin.ft. curb and 24 in. gutter (14x6 in.)	.83	.88	.95
897 lin.ft. curb and 36 in. gutter (14x6 in.)	1.03	1.08	1.10
326 sq.yd. reinforced conc. gutter (8 in.)	2.62	2.90	2.39
198 lin.ft. radius curb (16x6 in.)	.85	.88	1.10
30 drives (drop curb type) (includes 12 lin.ft. curb and gutter, 8x2½ ft. x 6 in. apron, 8x4 ft. x 6 in. walk)	25.00	20.00	20.00
6 No 2 open mouth city inlets	65.00	70.00	60.00
8 No. 3 open mouth city inlets	60.00	70.00	50.00
30 lin.ft. 15 in. C.I.P. in place	5.00	5.00	4.00
20 lin.ft. 8 in. T.C. storm sewer	.75	1.40	.50
10 lin.ft. 12 in. T.C. storm sewer	1.00	1.60	.60
612 lin.ft. 15 in. T.C. storm sewer	2.10	2.25	2.00
756 lin.ft. 18 in. T.C. storm sewer	2.50	2.40	2.30
62 lin.ft. 24 in. T.C. storm sewer	3.00	3.50	2.50
22 lin.ft. 6 in. tile drain	.50	.40	.25
10 trees, remove and dispose (Ave. 31.7 in. diameter)	0.00	27.00	10.00
3 stumps remove and dispose	5.00	10.00	10.00
77.5 lin.ft. stone retaining wall, remove (½ cu.yd. per ft.)	.50	.75	.25
325 lin.ft. wooden guard rail, remove and pile	.10	.15	.05
	$35,497	$36,695	$36,774

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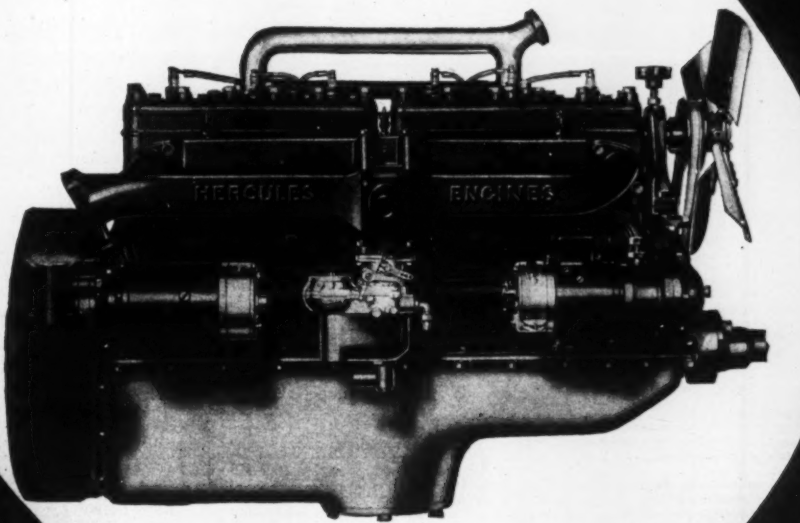
UNIT PRICES *continued on page 92a*

Hercules

Hercules Sixes embody the same characteristics of *simplicity, compactness*, and *dependability* through which our full line of engines, over a long period of years, have proven their *superiority* to thousands of power users throughout the world.

HERCULES MOTORS CORPORATION
CANTON, OHIO, U. S. A.



UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Bridge—Alton, Ill.

Bids were opened by Alton-St. Louis Bridge Co., c/o L. E. Anderson & Co., 711 St. Charles St., W. R. Compton Co., 704 Locust St. and Bitting & Co., 316 North 8th St., all St. Louis, Mo., Apr. 1, for constructing substructure for 3600 ft. bridge across Mississippi River at Alton, from (A) Kansas City Bridge Co., Orear-Leslie Bldg., Kansas City, Mo.; (awarded contract); (B) Union Bridge & Construction Co., Kansas City, Mo.; (C) Fruin-Colnon Contracting Co., St. Louis, Mo.; (D) Dravo Contracting Co., Pittsburgh, Pa.; superstructure, from (A) Wisconsin Bridge & Iron Co., 1116 Commerce Bldg., Kansas City, Mo., (awarded contract); (B) Mt. Vernon Bridge Co., Mt. Vernon, O.; (C) Kansas City Bridge Co.; (D) American Bridge Co., St. Louis. The unit bids are as follows:

SUBSTRUCTURE	A	B	C	D
3,500 cu.yd. pier shafts above bases	$21.00	$26.25	$30.00	$30.00
5,160 cu.yd. pier bases	30.00	34.00	33.50	34.50
24,300 lin.ft. timber piles in piers	1.10	.85	1.70	1.10
7,200 lin.ft. creosoted timber piles in approach footings	2.75	.95	1.40	1.50
850 cu.yd. abutment, retaining walls, pedestals, etc, in north approach	30.00	42.00	21.00	50.00
200,000 lb. all reinforcing steel in substructure	.06	.07	.055	.05
Fender complete at pier 7 (lump sum)	4,600.00	3,614.00	5,229.00	4,000.00
2,000 tons all riprap in place	3.20	4.50	5.00	3.50
220 cu.yd. sand fills between retaining walls and abutment	2.25	2.85	3.00	3.00
Totals	$323,550	$357,656	$373,849	$384,560
SUPERSTRUCTURE				
440,000 lb. silicon steel in thru truss spans	$0.0773	$0.0785	$0.0720	$0.0875
3,800,000 lb. carbon steel in thru truss spans	.0593	.0712	.0720	.0760
1,020,000 lb. structural steel in deck truss spans and towers	.0600	.0755	.0720	.0806
310,000 lb. structural steel in so. approach spans and towers	.0636	.0733	.0720	.0767
240,000 lb. structural steel in handrails	.0570	.0600	.0720	.0792
110,000 lb. castings	.1550	.1000	.1000	.1467
1910 cu.yd. concrete—machine finish	22.00	19.00	25.00	23.76
1,840 cu.yd. concrete—asphaltic surface	19.75*	20.00*	24.00*	22.15*
7,300 sq.yd. asphaltic concrete pavement	1.90*	2.25*	2.00*	1.95*
7,300 sq.yd. Kentucky rock asphalt pavement	1.40*	2.05*	1.50*	1.85*
380,000 lb. all reinforcing in superstructure	.0450	.0425	.0550	.0500
Gunite encasement (lump sum)	6,500.00	3,200.00	1,725.00	4,320.00
Totals	$436,618	$485,873	$499,695	$537,136

*Alternate items omitted.

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Bridge—Missouri

Bids were opened by Alton-St. Louis Bridge Co., c/o L. E. Anderson & Co., 711 St. Charles St., W. R. Compton Co., 704 Locust St., and Bitting & Co., 316 North 8th St., all St. Louis, Mo., Apr. 1, for constructing substructure for 2,000 ft. bridge across Missouri River at Ft. Bellefontaine, from (A) Kansas City Bridge Co., Orear-Leslie Bldg., Kansas City, (awarded contract); (B) Union Bridge & Construction Co., Kansas City; (C) Fruin-Colnon Construction Co., St. Louis; (D) Dravo Contracting Co., Pittsburgh; superstructure, from (A) Kansas City Bridge Co., (awarded contract); (B) Wisconsin Bridge & Iron Co., Kansas City; (C) Mt. Vernon Bridge Co., Mt. Vernon, O.; (D) American Bridge Co., St. Louis. The unit bids are as follows:

SUBSTRUCTURE	A	B	C	D
290 cu.yd. pier 1 and south abutment	$27.00	$30.00	$38.00	$40.00
1950 cu.yd shafts of piers 2 to 5 above bases	26.00	30.50	33.40	32.00
3,100 cu.yd. base of piers 2 to 5	38.00	40.00	35.50	44.00
190 cu.yd north approach pedestals and buried pier	30.00	30.00	40.00	35.00
14,400 lin.ft. timber piles in piers 2 to 5	1.50	.92	1.95	1.50
2,200 lin.ft. creosoted timber piles in approach footings	2.75	1.02	1.60	2.00
52,000 lb. all reinforcing steel in substructure	.06	.078	.06	.08
1,000 ton all riprap in place	4.00	4.00	5.00	4.00
Totals	$216,800	$221,423	$233,520	$251,210
SUPERSTRUCTURE				
1,750,000 lb. silicon steel	$0.0770	$0.0810	$0.0804	$0.0825
2,000,000 lb. carbon steel—truss spans	.0770	.0630	.0732	.0738
230,000 lb. structural steel—approach spans and towers	.0770	.0715	.0773	.0753
140,000 lb. structural steel handrails	.0770	.0640	.0600	.0774
90,000 lb. castings	.1000	.1420	.1000	.1329
910 cu.yd. concrete—machine finish	26.00	20.00	21.50	23.76
870 cu.yd concrete—asphaltic surface	26.00*	18.00*	22.50*	22.15*
4,100 sq.yd. asphaltic concrete pavement	2.00*	1.90*	2.25*	1.95*
4,100 sq.yd. Kentucky rock asphalt pavement	1.50*	1.40*	2.05*	1.85*
190,000 lb. all reinforcing steel in superstructure	.0550	.0450	.0425	.05
Totals	$360,350	$332,685	$349,919	$363,213

*Alternate items omitted.

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Constr. News page 92a

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Bridge, California, Southern Pacific R.R. making surveys, $10,000,000 or more.

Highway, California, San Francisco, Co., San Mateo Co., and Santa Cruz Co. making surveys, $8,000,000.

Factory, Los Angeles, Calif., Firestone Tire and Rubber Co. having plans prepared, $7,000,000.

Irrigation works, Calif., Fresno Foothill Irrigation Dist. voted bonds, $2,300,000.

Viaduct, Cincinnati, O., Hamilton Co. plans, $2,000,000.

Transmission lines, Texas, West Texas Utilities Co., Abilene, takes bids in September, $2,000,000.

Office, San Antonio, Tex., Smith Bros. soon take bids, $2,000,000.

Club, San Francisco, Calif., Olympic Club having plans prepared, $2,000,000.

Waterworks, San Francisco, Spring Valley Water Co. plans pipe line, $2,000,000 or more.

Apartment Hotel, Toronto, Ont., E. W. C. Godson had plans prepared, $2,000,000.

Apartment, Cleveland, O., Berkner Realty Co. having preliminary plans prepared, $1,500,000.

Causeway, Texas and Louisiana, Sabine Developers take bids about Sept. 1, $1,500,000.

Apartment, Los Angeles, Calif., L. B. Mayer and H. Rapf having plans prepared, $1,500,000.

Machinery Exchange, Los Angeles, Calif., R. Rosenberg having plans prepared, $1,500,000.

Office and store, Chicago, Ill., Syndicate having sketches made. $1,250,000.

Hotel, Chicago, Ill., Syndicate having plans prepared, $1,000,000.

Office, Detroit, Mich., Bd. Water Comrs. having plans prepared, $1,000,000.

Hotel Apartment, Los Angeles, Calif., R. A. Hill preparing preliminary plans, approximately $1,000,000.

Hotel, Long Beach, Calif., L. A. Baker, having plans prepared, $1,000,000 or more.

Bids Desired

Museum, Los Angeles, Calif., Supervs. Los Angeles Co. open bids Sept. 19, $1,250,000.

Public Safety Building, Milwaukee, Wis., Dept. Pub. Wks. opens bids Sept. 8, $1,200,000.

Masonic Temple, Atlanta, Ga., W. C. Spiker & Co. opens bids Sept. 20, $1,000,000.

Paving, Cleveland, O., Bd. Comrs. Cuyahoga Co., open bids Aug. 27, $1,000,000.

Apartment, Chicago, Ill., Huszagh & Hill taking bids, $1,000,000.

Bank and office, Los Angeles, Calif., Bennett and Haskell taking bids, $1,000,000.

Contracts Awarded

Appraisers Stores, New York, N. Y., L. Adler to Shroder and Koppel, Inc., archts. est. $6,000,000.

Civil Courts, St. Louis, Mo., Bd. Pub. Serv. to Seldon-Breck Constr. Co., $2,656,203.

Loft, Phila., Pa., Manufacturers Exchange Realty Co. to Nelson-Pedley Co., $1,500,000.

Hotel and stores, Elizabeth, N. J., Elizabeth Chamber of Commerce Hotel Co. to Deakman Wells Co., Archts. est. $1,000,000.

Apartment, Chicago, Ill., R. De Gaylor & Co. to Linn Constr. Co. and E. B. Kaiser, Archts. est. $1,000,000.

Apartment, Oakland, Calif., Bercovich and Assocs. to Thebo, Starr & Anderton, approximately $1,000,000.

News of the Week

Waterworks

Proposed Work

Mass., Spencer—Appropriated $49,500, relaying 6,000 ft. main water line. Water Dept., Town Hall, engr.

Mo., St. Louis—See "Unclassified."

Tex., Lufkin—Voted $85,000 bonds, extending waterworks.

Calif., Glendale City—P. Diederich, mgr. Pub. Serv., making plans 50 m.g. reservoir in Campbell St., $200,000.

Calif., San Francisco — Spring Valley Water Co., 425 Mason St., plans new main feeder pipe line from San Andreas Lake to companys holding reservoirs, here. $2,000 000 or more.

Calif., San Luis Obispo—San Luis Obispo Co. made plans wrought steel mains with necessary fittings, valves, pumps and motors, etc. in Acquisition & Impvt. Dist. 6. $15,000 or more. W. W. Hughes, San Luis Obispo, engr.

Calif., Santa Clara — Making plans extending mains in various streets, etc. $25,000 or more. H. B. Fisher, Growers Bank Bldg., San Jose, engr.

Bids Desired

Conn., Putnam—Sept. 8, by Bd. Water Comrs., City Hall, 11,900 ft. 8- to 16-in. c.i. waterworks; adv. E. N.-R. Aug. 25.

N. Y., Long Island City—Aug. 30, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 77th Pl., 66th Rd., 59th, 77th, 78th Sts., 2nd Ward; 13th, 14th, 22nd, 72nd and 88th Aves., Burton, Gettysburg, 160th, 166th annd 223rd Sts., 12th Rd., Cryders Lane, Parsons Blvd., etc., 3rd Ward· Woodhaven Blvd., 158th, 90th and 91st Sts., etc., in 4th Ward, here.

N. Y., New York—Aug. 31, by P. J. Dooling, comr. Purchase, Municipal Bldg., corporation cocks and hydrant repair parts to Dept. Water Supply, Gas & Electricity.

N. J., Denville—Sept. 7, by Twp. Com., Township Hall, concrete foundation for 250,000 gal. storage tank, concrete, brick and steel pump house, also constructing 250,000 gal. water storage tank, D. Sofield, twp. clk.; adv. E. N.-R. Aug. 25.

N. J., Newark—Sept. 8, by North Jersey Dist. Water Supply Comn., B. W. Moore, Jr., chn., 24 Commerce St., wire fence at Wanaque Reservoir. A. H. Pratt, ch. engr.; adv. E. N.-R. Aug. 25.

Pa., Grove City—Sept. 6, by Boro Council, C. A. Black, pres., at office C. H. Foltz, boro mgr., filtration and softening plant. Hudson & Myron, 802 Wabash Bldg., Pittsburgh, engrs.; adv. E. N.-R. Aug. 25.

Pa., Phila.—Sept. 1, by Dept. Pub. Wks., Bureau of Water, chlorine apparatus for Belmont mechanical filters, Contr. 893; steam heating, Shawmont Pumping Station, Contr. 894; intake screen house, Shawmont Station, Contr. 895; breeching insulation, Queen Lane Pumping Station, Contr. 896; 6- to 12-in. water pipe, Contr. 897; and steel doors, Shawmont Pumping Station, Contr. 898. G. H. Biles, dir.

Wis., Niagara — See "Contracts Awarded."

> *THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.*
>
> *Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.*

Neb., Lincoln—Aug. 29, by T. H. Berg, city clk., 15,000 ft. 6- to 10-in. mains, 35 valves, seventeen 6 in. hydrants and 8,292 lb. specials, etc. $25,000. D. L. Erickson, city engr.

Okla., Seminole—Aug. 30, by P. Noe, city clk., extending 24,500 ft. 4- to 8-in. c.i. mains, etc., in various streets. $30,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted June 2.

Calif., Beverly Hills — Salisbury, Bradshaw & Salisbury, Petroleum Security Bldg., Los Angeles, taking bids 6,000 ft. 12 in. and 2,000 ft. 14 in. welded steel pipe, here, for City.

Calif., Soquel — A. L. Andrews, clk. Soquel School Dist., taking bids pneumatic water plant complete, incl. pump with 1,000 gal. per hr., 1,000 gal. steel pressure tank, etc.

Contracts Awarded

Mass., Boston—Metropolitan Dist. Water Supply Comn., 24 School St., 6,750 ft. 20 in. c.i. pipe in Hopkinton, Contr. 13, to Portland Contg. Co., 97 Exchange St., Portland, Me., $54,963. Noted Aug. 4.

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Avenues H, O, and T, etc., to Dragonetti Contg. Co., 1123 Clinton Ave., New York City, $13,627. Noted July 21.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, Contrs. 890 and 891, to Acme Machine Co., 27 North 38th St., $27,000 and $20,000 respectively. Noted Aug. 11.

Md., Baltimore — Bd. Awards, c.i. pipe and fittings to Bureau Water Supply, for Mayor and City Council, to R .D. Wood & Co., 400 Chestnut St., Phila., Pa., $79,036. Noted Aug. 18.

N. C., Greensboro — See "Streets and Roads."

Tenn., Nashville—Bd. Pub. Wks., at office S. H. McKay, city clk., general contract filtration plant, to Foster-Creighton Co., 4th and 1st Natl. Bldg., $566,968; steel tank, to Chattanooga Boiler & Tank Co., 1011 East Main St., Chattanooga, $3,630. Engrs. est. $760,000. Noted June 30.

O., Cincinnati—Comrs. Hamilton Co. (**e.e. means engrs. estimate**), 8,544 ft. 6 in. c.i. mains in Water Supply Line 55 Dist. 2, to E. Meier, 1983 Cleneay Ave., Norwood, $14,987 e.e. $17,587; 26,558 ft. 6- to 10-in. c.i. mains Water Supply Line 13, Dists. 2, 4 and 5, to Metzel, O'Hearn, Vastine & Lewin, 6th and Craig Sts., Covington, Ky., $52,180 e.e. $62,381; also 36,848 ft. 6 in. c.i. mains in Water Supply Line 62, Dists. 1 and 8, to Crumley, Jones & Crumley, 311 Temple Bar Bldg., Cincinnati, O., $68,461 e.e. $78,717. Grand total $135,628. Noted June 16.

Wis., Milwaukee—For 3,432 ft. 6- to 16-in. c.i. mains in various streets, to H. O. Schaefer, 309 Grove St., $15,755. Engrs. est. $21,600.

Wis., Niagara—Village will construct reservoir, pipe lines, etc. for water supply, by day labor. $50,000. Shields, Jordan & Roe,

See proposal advertising on page 118

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Eliminating Repairs and Maintenance Costs

TRENTON WATER WORKS, Trenton, N. J., has been using Leadite for making joints in c. i. bell and spigot water mains for a great many years with entire satisfaction.

They have laid nearly 75 miles of c. i. pipe of various sizes with Leadite joints.

Trenton has very good paved streets and they have never had to dig up a Leadite joint for repairs during all the time they have been using Leadite. They consider this excellent performance for Leadite joints.

They find the use of Leadite has reduced to a minimum repairs and maintenance costs.

Trenton Water Works has always found Leadite joints efficient and economical.

They keep a check on their distribution svstem by water waste surveys.

During the severe winter of 1917-18 Trenton Water Works had over 2000 frozen services. Many of these services were connected to mains laid with Leadite joints. They had no difficulty in thawing, with electrical apparatus, services connected with mains which were laid with Leadite joints.

Mr. Alvin Bugbee is Superintendent of the Trenton Water Works.

Specify and use LEADITE It saves at least 75%

Be sure it is LEADITE and accept no imitations

The pioneer self-caulking material for c. i. pipe. Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

6 South Dearborn St., Chicago, Ill., engrs. Noted June 30.

Ia., Marengo — Two tubular concrete wells, to Continental Concrete Well Co., Arkansas City, Kan., $2,800; pump house, to M. O. Burnett, Marengo, $4,400; and pump and suction mains, to C. D. Nolan, Cedar Rauids, $4,876. Grand total $12,076. Noted June 9.

Mo., Columbia — For 2 m.g. rein.-con. storage reservoir, to Simon Constr. Co., Columbia, $31,750.

Calif., Elsinore — Temescal Water Co., Corona, single arch concrete dam in Railroad Canyon, to Nevada Contg. Co., Fallon, Nev., approximately $125,000.

Calif., Monterey Park — To Amer. Cast Iron Pipe Co., Detwiler Bldg., Los Angeles, 800 ft. 4 in. 16 ft. length c.i. water pipe at $0.4382 per ft., 500 ft. 6 in. $0.6149, 4,100 ft. 8 in. $0.8817, 1,100 ft. 12 in. $1.5251, etc.

Calif., Santa Maria—A. H. Drexler, city clk., 18 in. rein.-con. pipe line in connection with waterworks, to F. H. Gates, Inc., Santa Maria, approximately $58,115.

Sewers

Proposed Work

O., Columbus — Franklin Co., Court House, soon takes bids 10,800 ft. 8- to 15-in. vitr. sewer in Marion Dist. 1, Impvt. 82. $44,000. E. G. Bradbury, Court House, annex.

Wis., Lake (St. Francis P. O.)—Making plans 10,000 ft. 8 in. vitr. clay sewers in Norwich, Sheridan, Griffen and Austin Sts., Van Beck Court, Howell, Van Beck, Burdick, Hanson, Jordan, Howard, Howell and Pine Aves. $40,000. H. C. Webster, 216 West Water St., Milwaukee, engr.

Wis., Oconomowoc — Making plans reconstructing sewage disposal plant and sewerage system. W. G. Kirchoffer, Oconomowoc, engr.

Wis., Wauwatosa—Plans 12,000 ft. 8- to 12-in. vitr. clay sewers in Ravenswood Subdivision. $30,000. J. E. Lowther, Wauwatosa, engr.

Ia., Marshalltown—Soon takes bids 17,064 ft. 15- to 48-in. vitr. clay, concrete or segment block sewers in Dists. 1, 2, 7, 8, 9 and 10.

Mo., St. Louis—See "Unclassified."

Ark., Corning—Making preliminary plans 8- to 15-in. vitr. clay sewerage system. J. R. Rhyne, City Hall, engr.

Tex., Amarillo—Making plans sewage disposal plant. To exceed $100,000. H. B. Jones, city engr. Wynkoop, Kiersted, 614 Interstate Bldg., Kansas City, Mo., consult. engr.

Tex., Lufkin—Voted $50,000 bonds, extending sewerage system.

Calif., Los Angeles—Los Angeles Co., D. D. 21, made plans 24- to 84-in. cement and rein.-con. sewers in Montebello Dist. C. E. Arnold, Hall of Records, drainage constr. engr.

Calif., Manhattan Beach (Manhattan P. O.)—L. Price, city clk., making plans vitr. sewers, house connections, etc. in Home and 2nd Sts., etc. To exceed $25,000.

Calif., Redwood City—South San Francisco D. D. 1, San Mateo Co., made plans rein.-con. drainage canal, 36 in. concrete storm sewer, rein.-con. bridges, etc. To exceed $100,000 . G. A. Kneese, Redwood City, co. surv.

Bids Desired

N. Y., New Yofk — See "Streets and Roads."

N. J., Trenton—Aug. 30, by Twp. Com., W. C. Hart, clk., 3,802 lin.ft. 12- to 22-in. vitr., and 838 lin.ft. 30 and 33 in. rein.-con. sewers, paving, walks, etc., in Davis Tract. C. S. Sincerveaux, 135 East State St., engr.

Pa., South Williamsport (Williamsport P. O.)—Sept. 8, by W. S. Larson, boro secy., Town Hall, 3,000 ft. 15 and 18 in. sewers, etc. in various streets. M. C. Krause, 333 Pine St., engr.

D. C., Wash.—Aug. 30, by Dist. Commissioners, 13,726 lin.ft. 10 in. to 4½ x 4½ ft. sewers in various streets.

La., New Orleans—Oct. 21, by Sewerage & Water Bd., at office A. G. Moffat, secy., 526 Carondelet St., three 4,000 hp. water tube boilers; forced and induced draft fans and air preheaters; also coal pulverizers and burners, etc. G. C. Earl, genl. supt.; adv. E. N.-R. Aug. 25.

Tenn., Chattanooga—Sept. 6, by R. H. Crox, comr. Dept. Streets & Sewers, sanitary sewers and appurtenances in various streets; adv. E. N.-R. Aug. 25.

Tenn., Knoxville — Aug. 29, by Director Pub. Sewers, 12,100 ft. 8- to 15-in. rein.-con. or vitr. clay trunk and lateral sewers in Lincoln Park. W. W. Mynott, City Hall Park, engr.

Ky., Georgetown—Sept. 1, by Town, 6.5 mi. sewers, etc. in various streets. J. Nichols, city clk.; adv. E. N.-R. Aug. 25.

Ky., Louisville—Sept. 9, by Commissioners of Sewage, M. T. Crawford, chn., 5,800 ft. 5¾ x 5½ ft. semi-elliptical rein.-con, sewer, incl. junction chamber, manholes, etc., in Bahannan Ave. Interception, Contr. 34. J. B. F. Breed, Bd. of Trade Bldg., engr.

O., Alliance—Sept. 20, at office F. D. Miller, dir. Pub. Serv., City Hall, Sewage Treatment Works, Contr. "A," Outfall Sewer, Contr. "B," and Sewage Treatment Works and Outfall Sewer, Contr. "C;" adv. E. N.-R. Aug. 25.

O., Columbus—Sept. 6, by W. H. Duffy, dir. Serv., 1,050 ft. 96 in. and 1,367 ft. 78 in. monolithic concrete or brick sewer in Denune Ave., Weber Rd. and Brement St. (North Linden Storm Sewer). $95,000. R. H. Simpson, City Hall, engr.

Ill., Chicago—Sept. 8, by C. W. Laubenheimer, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., North Side Sewage Treatment Works, Div. W. J. W. Crowe, pres.; adv. E. N.-R. Aug. 25.

Ill., Libertyville—Aug. 30, by Bd. Local Impvts., 14,460 ft. 8- to 15-in. sewers, 49 manholes, etc. in Kenloch Park; also 15,150 ft. 6 and 8 in. watermains, 39 hydrants, in Sayre Ave., etc. Kelker, De Leuw & Co., 111 West Washington St., Chicago, engrs.

Ill., Springfield—Sept. 13, by Bd. Trustees Sanitary Dist., City Hall, G. T. Cresse, pres., sewage treatment plant, clarifier mechanisms, sludge pumps, etc., Div. J. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs. Noted May 26.

Mo., Cape Girardeau—Sept. 6, by W. C. Kaempfer, city clk., 6- to 60-in. vitr. clay combined sewers in Dist. 3; adv. E. N.-R. Aug. 25.

Okla., Seminole — Aug. 30, by P. Noe, city clk., sewage disposal plant, Imhoff tank, filter and 18,800 ft. 12- to 15-in. vitr. clay sewers in various streets. $65,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted June 2.

Calif., Hayward City — City Trustees taking bids 13,800 ft. 21- to 33-in. double strength vitr. or cement pipe, etc., for outfall sewer. $65,000. J. B. Holly, city engr.

Calif., Los Angeles—Bd. Pub. Wks. taking bids constructing 2nd section Santa Monica-Venice outfall sewer. J. D. Davidson, Venice, div. engr.

Calif., Oakland—F. C. Merritt, city clk., taking bids vitr. sewer and rein.-con. culvert with appurtenances in Shafter Ave. between Bway. and Presley Way. To exceed $25,000. G. N. Randle, city engr.

Contracts Awarded

Conn., Bristol—For 8,500 ft. 8 in. drain tile sewers in various streets, to J. De Paola, Rocky Hill, Hartford. Engrs. est. to exceed $25,000.

Conn., Middletown—State, sewage disposal plant at Connecticut State Hospital for Insane, to O'Neil Bros., 22 Preston St., Hartford, $31,550. Engrs. est. $35,000.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, branch sewers in Cherokee and Hawthorne Sts., to A. Bonitatibus, 300 Mt. Pleasant Ave. $4,279 and $1,106 respectively; Ditman St., to Vattieri Pontarella, 300 Mt. Pleasant Ave. $2,482; D St., to F. C. Garofoli Co., 517 West Tioga St., $6,054; Frankford Ave., to McCoal Constr. Co., 5033 Duffield St., $4,959; Garland St., to P. Pinciatti, 4103 Roosevelt Bldg., $6,460; Josephine St., to V. S. Campellone, 812 West Venango St., $1,372; Luzerne St., to A. Mattia, 310 North 65th St., $1,040; Ontario St., to A. Casciato, 1602 Wharton Ave., $899; Wheatscheaf Lane, to J. J. McHugh, 1617 Race St., $782; and Whitaker Ave., to Mundy Paving & Constr. Co., 226 South Warnock St., $1,644. Grand total $31,077.

N. C., Greensboro—See "Streets and Roads."

O., Amherst—Sewage treatment plant, revamping and enlarging present one, 2,200 ft. 4 to 18 in. c.i. and 400 ft. 8- to 12-in. vitr. clay pipe, etc., to W. B. Kester Co., 333 North Firestone Blvd., $69,438. Engrs. est. $67,000.

O., Bay Village—To Kassouff & Co., 2400 Althen Ave., sewers in Saddler Rd. $7,422, Oakland Rd. $4,780, and Upland Rd. $8,265; also to Sprague & Burkhardt, 11811 Browning Ave., Cleveland, Parkside Rd. $18,657. Grand total $39,124.

O., Cleveland—For 500 ft. 12- to 15-in. vitr. tile sewer in West 118th St., to Assad Constr. Co., 3129 Scranton Rd. $1,899, 2,195 ft. 12- to 20-in. Carrington Ave., to E. Cesa, 2462 Baldwin Rd. $9,088, 2,125 ft. 15- to 24-in. Bennington Ave., to Yahya Bros., 3333 Woodbridge Ave. $16,019, 905 ft. 15- to 18-in. Beech Ave., and to E. P. Langenhan Constr. Co., Marshall Bldg. $4,703; 370 ft. 6 ft. 3 in. x 4 in. and 445 ft. 6 ft. rein.-con. in Barberton Creek Culvert, to E. Gedney, 14251 Superior Ave. $22,920, and 2,672 ft. 3 ft. x 4 ft. Creek east of Pearl Rd., to H. J. Scott Constr. Co., Brookpark Rd. $31,585; 530 ft. 3 ft. and 640 ft. 2 ft. 6 in. vitr. block sewer in Berea Rd., to J. Kahill & Jackson Co., Prospect 4th Bldg., $16,089; 3,078 ft. 5 ft. "C" sewer in Brooklawn Ave., to Amata Constr. Co., 12506 Union Ave., $54,636; also 1,500 ft. 20- to 27-in. vitr. clay and 1,200 ft. 3 ft. "C" brick sewer in West 157th St., to Kassouff & Co., 2400 Althen Ave., $26,988; sewer in Big Creek at Bellaire Rd., to Freeman & Jones, 5716 Euclid Ave., $21,461. Grand total $205,388.

O., Cleveland—Sewer in Green Creek, to Stevens Constr. Co., 1105 Chester Ave., $94,870.

Mich., Detroit — Hubell, Hartgering & Roth, engrs., 2640 Buhl Bldg., 9,781 ft. 12- to 18-in. vitr. and 6,116 ft. 4 and 6 in. drain tile sewers in Holy Sepulchre Cemetery, Southfield Twp., to Sager Bros., Birmingham, for Catholic Diocese, Washington Blvd. $28,548. Noted Sept. 23.

Mich., East Lansing—B. A. Faunce, city clk., 7,400 ft. 24 in. to 30 in. concrete interceptor sewer in various streets, to Central Michigan Constr. Co., Lansing, $62,641. Noted July 14.

Ill., Chicago—H. C. Laubenheimer, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., Salt Creek Intercepting Sewer Contr. 1, to States Corp., 38 South Dearborn St., $759,810. Noted June 9.

Wis., Fond du Lac — Sewage disposal plant building, to Immel Constr. Co., Fond du Lac, $107,000; pumps, to Fairbanks Morse & Co., 900 South Wabash Ave., Chicago, Ill., $7,025; c.i. pipe, to U. S. Cast Pipe & Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., $8,500; and meters, to Simplex Valve & Meter Co., 68th and Upland Sts., Phila., Pa., $1,600. Grand total $124,125. Noted June 9.

Wis., Milwaukee — To Zimmermann & Zimmermann, 90th St. and National Ave., West Allis, main sewers in Blue Mound Rd. $5,838, Fairview Ave. $10,720, and 64th St. $6,552; to Wenzel & Henoch, 49th and State Sts., East Ohio Ave., $7,394; to Rousch & Busse, 321 17th Ave., Mt. Vernon Ave. $43,188; and to Clayton Constr. Co., Port Washington and Gruber Aves., St. Paul Ave. $11,926. Grand total $85,618.

Kan., Abilene — Sewer extension and pumping plant, to R. G. Tripp Constr. Co., Herington, $29,579.

Neb., Curtis—D. C. Bancroft, city clk., 20,685 ft. 8- to 12-in. concrete sewers, etc., in various streets, to Chambers Constr. Co., 1st Natl. Bank Bldg., Lincoln, $26,300. Noted July 28.

Ore., Portland—O. Laurgard, city engr., 2.5 mi. vitr. or cement sewers in 55th Ave. and 67th St. S. E., to Western Constr. Co., Ry. Exch. Bldg., $196,983. Engrs. est. $252,467.

Calif., Los Angeles—Sewers in Westgate Ave., Santa Monica Blvd., etc. (Sawtelle Storm Drain System), to Baruch Corp. & R. E. Cooney, Lincoln Bldg., $593,507, storm drain in La Brea Ave. between Hollywood and Sunset Blvds. to M. Simunovich, 3305 West 66th St., approximately $25,552; also sanitary sewers in Westwood Blvd. between Santa Monica and Pico Blvds., to S. C. Kruly. 326 North Hill St., $82,020. Grand total $701,079. Noted June 30.

Calif., Los Angeles—Sewer in Colorado Blvd. between Dahlia Dr. and Maywood Ave., to Radich & Grancich, 2810 Dobinson St., $91,818.

Waste Disposal

Proposed Work

Tex., Lufkin—Voted $20,000 bonds, incinerator.

Contracts Awarded

Wis., Shorewood (Milwaukee P. O.)—Village Bd., 30 ton per day, high temperature destructor Dutch oven type garbage incinerator, to Jones Oderless Garbage Crematory, Syndicate Trust Bldg., St. Louis Mo., $12,369. Noted July 21.

Bridges

Proposed Work

Mass., Cambridge (Boston, P.O.)—Appropriated $95,000, concrete and iron bridge, on 3rd St. Private plans.

Constr. News page 94

FEBRUARY
JANUARY
DECEMBER
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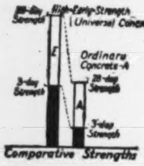

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Don't Let Winter Months Interfere With Building Plans

Now winter concreting is even more practicable than before. *High-Early-Strength* Universal Concrete (which has a 3-day strength equal to the 28-day strength of ordinary concrete) shortens the period during which protection from freezing is necessary. It hastens removal of forms.

Having a greater *ultimate* strength in addition to a higher *early* strength, it also is *permanently* better and stronger concrete, as shown in the diagram.

Don't postpone your plans because they carry construction into winter! Take advantage of plentiful materials and good labor conditions during cold weather. Then in the spring, when other buildings are being started, your job will be completed or well under way.

For full details on *High-Early-Strength* Universal Concrete, made with the *usual* materials, *usual* labor, *usual* equipment and standard Universal cement, all applied according to fully tested methods, send in the accompanying coupon.

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

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Bridges (Continued)

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about Sept. 9, 10 timber bridges on Ridley-Kentucky State Line Rd., State Road 18, Lake Co. C. N. Bass, highway comr.

Tenn., Springfield — Robertson Co. and State Dept. Highways & Pub. Wks., Nashville, plan rein.-con. bridge over Sulphur Fork Creek, on State Road 75. To exceed $25,000. C. N. Bass, highway comr.

Ohio—G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, cancelled bids to have been opened July 29, concrete bridge on Sect. "E" Ohio River Rd., Clermont Co.

O., Cincinnati—Hamilton Co. plans new 78 span 3,500 ft. rein.-con. viaduct, on 8th St. $2,000,000. E. A. Gast, Court House, engr.

Tex., Karnes City — See "Streets and Roads."

Tex., Vernon—See "Streets and Roads."

California—Southern Pacific R.R. Co., G. W. Boschke, ch. engr., 65 Market St., San Francisco, making surveys replacing ferry system with bridge over Carquinez Straits, Solano and Contra Costa Counties. $10,000,000 or more.

Bids Desired

New York—See "Street and Roads."

New York and New Jersey—Sept. 12, at office J. E. Ramsey, ch. executive officer Port of New York Authority, 75 West St., New York City, abutments and earth fills for plazas of Outerbridge Crossing and Elizabeth-Howland Hook Bridge over Arthur Kill between New Jersey and Staten Island, N. Y. Noted Sept. 2, 1926.

Florida—See "Streets and Roads."

Tennessee—See "Streets and Roads."

Kentucky—Sept. 9, by State Hy. Dept., Frankfort, substructure, rein.-con. piers for steel span, two 26 and two 36½ ft. rein.-con. deck girder approach spans with sidewalks and superstructure, 180 ft. steel span with sidewalks and concrete flooring, for bridge over North Fork Kentucky River between Hazard and Louisville & Nashville R.R. Station, Perry Co. E. N. Todd, highway engr.

O., Cincinnati—Aug. 30, by C. O. Sherrill, city mgr., City Hall, 2 span 75 ft., concrete and steel bridge over West Fork Creek, for city. $35,000.

O., Dayton—Sept. 10, by Comrs. Montgomery Co., Court House, superstructure 220 ft. steel through-truss single span highway bridge, 20 ft. over Twin Creek, on Oxford-Germantown Rd. $80,000. W. O. Pease, Court House, co. surv.

Illinois—Aug. 31, by State Dept. Pub. Wks. & Buildings, Div. Highways Springfield, steel and concrete bridges on Route 12, Sect. 7-V Clay Co., Route 49, Sect. 135-B and Route 49, Sect. 136-B both Iroquois Co., Route 72, Sect. 113-B Carroll Co., Route 78, Sect. 134-B Fulton Co., Route 89, Sect. 115-B Bureau Co., Route 142, Sect. 101-B Wayne Co., Route 148, Sect. 129-B and C Williamson and Franklin Counties, Route 160, Sect. 134-B and C Madison Co. and Route 182, Sect. 101-B Marion Co. F. T. Sheets, ch. highway engr.

Iowa — Sept. 2, by State Hy. Dept.,, Ames, 5 bridges and 85 culverts in Clarke, Adair, Adams, Taylor, Appanoose and Franklin Counties. R. F. White, ch. engr.

Ia., Charles City — See "Streets and Roads."

Minn., Morton—Sept. 6, by State Hy. Comn., St. Paul, Bridge 4666, 3 span, 290 ft.; also for Overhead Structure 4668, 680 cu.yd. concrete, on State Project 14-24, Sect. 4, here. Eng. Dept. of owner, engrs.

Nebraska — Sept. 2, by Saunders Co. (Wahoo), Douglas Co. (Omaha) and State Dept. Pub. Wks., Lincoln, at Wahoo, removing 1,155 ft. old timber trestle and constructing Valley State Aid Bridge, new 100 ft. pony truss span, 18 ft. roadway, etc., with concrete pedestal pier and concrete abutment, 1,155 ft. new, 11,500 cu.yd. sand and 1,200 cu.yd. clay fill, 2,460 ft. guard rail, etc. R. L. Cochran, state highway engr.

Neb., Duncan—Sept. 1, by C. H. Hoge, clerk Platte Co. (Columbus), Polk Co. (Osceola) and State Hy. Dept. (Lincoln) at Columbus, Duncan State Aid Bridge nine 100 ft. truss or eighteen 50 ft. transverse joist girder span, etc. over Platte River, near here. R. L. Cochran, State House, Lincoln, state highway engr.

Neb., Ewing—Aug. 31, by E. F. Porter, clerk Holt Co., Court House, O'Neill, one 100 ft. and two 50 ft. pony truss approach spans, etc., over Elkhorn River, here. R. L. Cochran, State House, Lincoln, highway engr.

Missouri—Sept. 2, by State Hy. Comn., Jefferson City, one 12 ft., and two 20 ft. rein.-con. slab, and one 35 ft. rein.-con. deck girder spans, etc., in Bollinger Co.; two 10 ft. rein.-con. slab spans and drainage work for crossing under Missouri Pacific and Missouri, Kansas & Texas R.R. tracks, Cass Co.; four 16 ft. rein.-con. and one 60 ft. open spandrel rein.-con. arch spans, etc., Clinton Co.; two each 35 and 48 ft. and one 53 ft. rein.-con. deck girder spans, etc., Jackson Co.; two 10 ft. rein.-con. slab and one 16 ft. timber span, etc., St. Clair Co.; also 83,000 concrete right-of-way markers. T. H. Cutler, highway engr.

Ark., Dardanelle—Aug. 30, by State Hy. Comn., Little Rock, steel and concrete bridge over Arkansas River, on Federal Aid Project 244-A, Yell and Pope Counties. Former bids rejected. Noted June 30.

Tex., Houston—Aug. 31, by City, 5 span, 400 ft. rein.-con. bridge with 100 ft. steel lift span in center, extension Lockwood St. $200,000. J. C. McVea, city engr. Noted Aug. 16.

Oklahoma—Sept. 7, by State Hy. Dept., Oklahoma City, 3 span 170 ft. steel truss bridge on piers, 114 tons steel truss, etc. at Mill Creek, Johnson Co., $30,000; 3 span 170 ft. steel truss bridge on piers, 170 tons truss steel, etc. at Marietta, Love Co., $45,000; 2 span 116 ft. steel truss bridge on piers, 78.2 tons truss steel, etc. at Ringwood, Major Co., $25,000; 3 span 134 ft. steel truss bridge on piers, 96.3 tons truss steel, etc. at Antlers, Pushmataha Co., $30,000; and 46 span 750 ft. creosoted pile trestle bridge, 96,000 ft. timber, 137,000 ft. wooden piling, etc., at Norman, Cleveland Co., $40,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Okla., Kenton — Sept. 12, by State Hy. Dept., Oklahoma City, 16 span 511 ft. pile trestle bridge, 88,400 cu.yd. creosoted timber, etc., Cimarron Co., here, for states Oklahoma and New Mexico. $30,000. C. A. Mindigo, Capitol Bldg., Oklahoma City, engr.

Calif., Los Angeles—Sept. 6, by Supervs. Los Angeles Co., concrete and timber bridge over Big Dalton Wash, on Merced Ave.; and concrete bridge over Rubio Wash, on Mission Dr. To exceed $25,000.

Calif., Marysville—W. M. Strief, clk. Yuba Co., taking bids five 22½ ft. span rein.-con. bridge at Frenchtown Crossing; two 13 ft. span concrete bridge at McGinn Pl.; and 14 ft. span concrete bridge at Edwards House.

Bids Received

N. J., Newark—State Hy. Dept., Trenton, Aug. 22, bridges, etc., on Route 1 Extension, Sect. 14-A, Essex Co., here, from C. Meade & Co., 217 West 14th St., New York City, $1,147,405. Noted Aug. 4.

Contracts Awarded

N. J., Arcola (mail Warrenpoint)—Bd. Freeholders Bergen Co., Court House, Hackensack, replacing timber bridge with concrete and steel bridge, here, to Dansen Constr. Co., 70 Main St., Passaic, $63,779.

N. J., Bridgeboro — State Hy. Comn., State House, Trenton, single leaf bascule span bridge over Rancocas Creek, Route 2, Burlington Co., to Eastern Eng. Co., 4 N. Carolina Ave., Atlantic City, $356,668. Noted Aug. 11.

Virginia—State Hy. Dept., Richmond, bridge over Smith Creek, on Route 33, to J. S. Bowers, Whiteville, N. C., $65,721; bridge over Bull Run Creek, Route 28, to G. L. Bobbitt, Franklinton, N. C., $22,049; bridges over Hyce River and Coleman Creek, Route 18, to M. C. Turner, Durham, N. C., $27,211; and bridge over Stewart Creek, Route 17, to M. S. Hudgens & Co., Roanoke, $9,918. Grand total $124,699. Noted July 7 under "Streets and Roads."

Georgia — State Hy. Dept., East Point, bridge on Eaton-Grey-Macon Rd., Putnam Co., to E. A. Wood & Co., Andrews, N. C., $75,968. Engrs. est. $75,000.

Miss., Pascagoula—Jackson Co., two 210½ ft. steel swing spans complete with operating machinery, etc., one over Pascagoula River, here, and other over Dog River at Moss Point, to Vincennes Bridge Co., Vincennes, Ind., $86,329. Noted Jan. 6, 1926.

Kentucky — State Hy. Dept., Frankfort, **(S.P. means State Project)** to Southern Oil & Tar Co., Clay and Fulton Sts., Louisville, tar surfacing 10 mi. Hopkinsville-Pembroke Rd., S.P. 2-G, Christian Co. $6,579, 5 mi. Owingsville-Sharpsburg Rd., S.P. 21-E, Harrison Co. $11,147, and oil surfacing 4.8 mi. Cynthiana-Georgetown Rd., S.P. 58½-B, Harrison Co. $7,028; to F. G. Breslin, 32nd and Market Sts., Louisville, tar surfacing 6.46 mi. Elizabethtown-Bardstown Rd., S.P. 46-K, Hardin Co. $12,740, to Eaton Oil Wks., Covington, 6.3 mi. Florence-Burlington Rd., S.P. 5-U, Boone Co. $28,734, and to H. B. Tyler Co., 114 South 4th St., Louisville, 4.5 mi. Alexandria-Falmouth Rd., S.P. 21-B, Campbell Co. $5,933; to Carey & Reed, Lexington, oil surfacing 3.1 mi. Nicholasville-Russell Cross Roads Rd., S.P. 166-A, Jassamine Co. $25,824, and tar treating 5.6 mi. Kingston-Berea Rd., S.P. 22-G, Madison Co. $9,291. Grand total $107,276. Noted July 14.

Ohio — G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, constructing concrete bridge addition on Sect. "B" Ohio River Rd., Belmont Co., to B. C. Patterson, Van Atta, $6,057; and 122 ft. concrete bridge on Sect. "A" Dayton-Troy-Eastern Rd., Miami Co., to J. W. Weeks, Gibbons Arcade, Dayton, $20,497; also steel bridge and approaches on Sect. "F-H" Ohio River Rd., Gallia Co., to Miller Bros., Gallipolis, $14,869. Grand total $41,423.

O., Cleveland — New York Central Ry., R. O. Rote, ch. engr. (lines west of Buffalo), West 3rd St. and Lakeside Ave., excavation, masonry concrete abutments and piers for concrete and steel bridge, on Bliss Rd., to Hecker-Moon Co., 8701 Union Ave., $42,560.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridges on Route 61, Sect. 111-B, McHenry Co. and on Route 24, Sect. X-2, Tazewell Co., to Iowa Bridge Co., 1901 Easton Blvd., Des Moines, Ia., $20,614 and $10,221 respectively, on Route 24, Sect. X-1, Tazewell Co., to Continental Bridge Co., 23 West Jackson Blvd., Chicago, $3,438, on Route 30, Sect. 10-C, Stark Co., to Vincennes Bridge Co., Vincennes, Ind., $10,797, and on Route 17, Sect. 17-B, Livingston Co., to Zimmerly Bridge Co., Paris, $4,492. Grand total $49,562.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rein.-con. and steel bridge on State Route 121, Douglas Co., to Casey Constr. Co., Casey, $45,366.

Ill., Chicago—H. C. Labenheimer, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., substructure bridge over Main Drainage Canal, at Crawford Ave., to Underground Constr. Co., 130 North Wells St., $439,922. Noted July 21.

California—State Hy. Comn., Sacramento, 3 rein.-con. bridges across Arcade Creek, at points approximately 3½, 6½ and 7½ mi. east of Ben Alj, incl. one 34 ft. and one 36 ft. span bridge at Station 399-65, one 30 ft. span bridge at Station 559-82, and two 26 ft. span bridge at Station 614-92, all in Sacramento Co., to P. F. Bender, North Sacramento, $33,093. Engrs. est. $34,750.

Calif., Vernon—Concrete arch bridge, on Soto St., to Lynch-Cannon Eng. Co., Chapman Bldg., Los Angeles, $142,176. Noted Aug. 11.

Ontario—Dominion Government, Ottawa, 2 bridges in Welland, to Canadian Bridge Co., Walkerville, $739,691; and new bridge in Port Colborne, to Hamilton Bridge Wks. Ltd., Hamilton, $368,250, all over Welland Canal.

Dams

Proposed Work

Okla., Overbrook—A. Grotto, Ardmore, made preliminary plans impounding reservoir, 200 ft. dam and lake, near here. $75,000. S. Mathews, Ardmore, engr.

Contracts Awarded

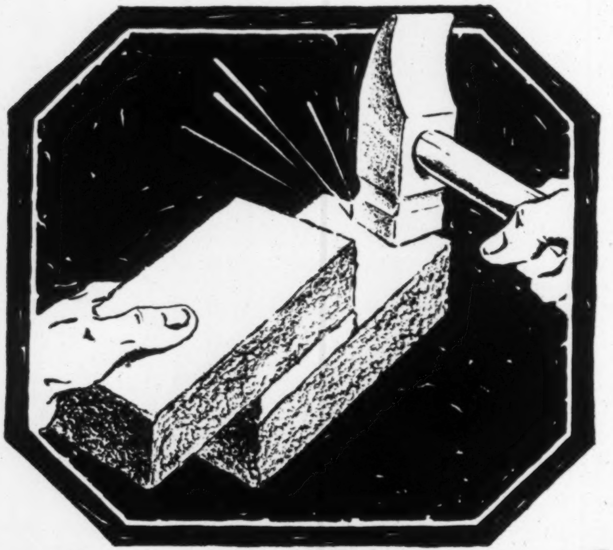
S. C., Columbia—General Gas & Electric Co., W. S. Barstow, pres., 50 Pine St., New York City, N. Y., dam on Saluda River, here, to Arundel Corp., Pier 2, Pratt St., Baltimore, Md., $6,000,000. Noted Mar. 10 under "South Carolina.

Railways

Proposed Work

Mississippi—North Division of Gulf & Ship Island R.R. Co., M. F. Mann, counsel constr., Decatur, plans 25 mi. railroad from main line in Mendenhall to Palahatachie.

Texas—Texas & Pacific Ry. E. F. Mitchell, ch. engr., Dallas, soon lets contract extending 37 mi. standard gage railroad from Breckenridge to Throckmorton. $600,000.



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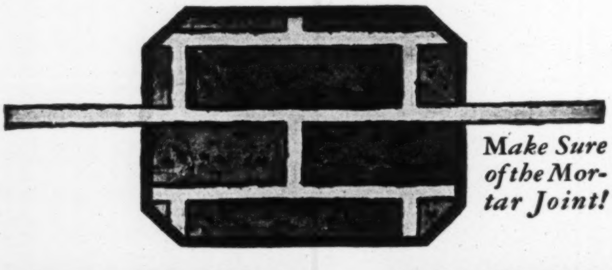

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Proposed Work

Mass. Fall River—Plans concrete retaining walls on Summit Ave. $25,000. M. Monks, City Hall, mayor. Engineer not selected.

Ill., Edwardsville — Chouteau Island Drainage & Levee Dist., c/o G. W. Crossman, Edwardsville, judge Madison Co., making preliminary plans repairing levee and drainage ditches in district Mississippi River at Chouteau Island. $26,000.

Ark., Bridge Junction—St. Francis Levee Dist. rejected bids Aug. 1, approximately 700,000 cu.yd. sub-levee work. H. N. Pharr, Bridge Junction, ch. engr. Noted July 28.

Calif., Fresno—Foothill Irrigation Dist. voted $2,300,000 bonds, irrigation works. M. Enderlein, Brix Bldg., engr.

Bids Desired

N. Y., Corona — Lewis Development Co., 47 West 34th St., New York City, taking bids 400,000 cu.yd. earth fill, etc., New Nassau Blvd. adjacent to Flushing River, here. O. E. Anderson, 47 West 34th St., New York City, engr.

N. J., North Bergen (Ind. br. Weehawken)—Sept. 1, by Bd. Educ., Town Hall, Hudson Blvd., excavation for School 9, 3 story and basement, 150 x 175 ft., brick and steel, plain foundation, 38th and 39th Sts. between Hudson Blvd. and Midway Pl. $850,000. F. Hensel, 254 Summit Ave., Union City, archt. W. Weir, 254 Summit Ave., Union City, associated archt. Noted May 26.

Ark., Pine Bluff—Aug. 29, Commissioners Linwood & Auburn Levee Dist., c/o Jones & Hooker, attys., Citizens Natl. Bank Bldg., raising and repairing levees, 100,000 cu.yd. embankment, blanket form, and 2,333 cu.yds. earth excav. in 3 ft. x 6 ft. ditch. E. Hale, Natl. Bldg., engr.

Wash., Kelso—Sept. 6, by Comrs. Cowlitz Co., raising dike in Diking Dist. 2, 86,555 cu.yd. embankment, constructing 2 ditches, 16,000 cu.yd. excav., 730 ft. 30 in. rein.-con. pipe, etc. $43,000. W. A. Middlebrooks, Kelso, engr.

Calif., Byron—Sept. 6, by G. A. Howard, secy. Byron-Bethany Irrigation Dist., 2⅝ mi. concrete canal lining.

Bids Received

N. Y., Syracuse—Bd. Contr. & Supply, City Hall, Aug. 15, covering Harbor Brook between Richmond Ave. and State Fair Blvd., from J. H. Corbett, Jr., S. A. & K. Bldg., $70,998. Noted Aug. 11.

Tex., Houston — Houston Port Comn. making plans constructing Wharves 14 and 15, at Ship Channel, from C. W. Ennis, 1401 Dowling St., $402,000. Engrs. est. $300,000.

Contracts Awarded

N. Y., New York—M. Cosgrove, comr. Docks, Pier A, Battery Pl., bulkhead wall, at East 17th St. and East River, to General Contg. & Eng. Co., 40 Rector St., $15,090. Noted July 28.

Ill., Granite City—Bd. Trustees East Side Levee & Sanitary Dist., Metropolitan Bldg., East St. Louis, straightening and revetting levee on Mississippi River, near here, incl. spreading 26,000 cu.yd. slab, and 700 cu.yd. excav. for footings, also cleaning out Harding Ditch, incl. 63,000 cu.yd. excav., to H. H. Hall, Murphy Bldg., East St. Louis, $69,780 and $31,437 respectively. Noted June 9.

Ia., Jefferson—Auditor Green Co. (Jefferson) improving Joint D. D. 18 and 35, Greene Co. (Jefferson) and Webster Co. (Ft. Dodge), tile work, to Humboldt Gravel Co., Humboldt, $39,722; laying tile, to P. Reiman, Manson, $20,275; and open work, to A. R. Eno, Rockwell City, $5,334. Grand total $65,331. Noted July 14.

California—State Harbor Comn., Sacramento, 600,000 cu.yd. dredging in Islais Creek from 3rd St. to bridge to water front line, to F. C. Franks Dredging Co., 260 California St., San Francisco, at $0.11 per yd.

Streets and Roads

Proposed Work

Mass., Boston—Dept. Pub. Wks. plans laying out and constructing Nashua and Lowell S's. as highway. To exceed $25,000. J. H. Sullivan, comr.

Mass., Brighton (Boston P. O.)—Dept. Pub. Wks., Boston, plans laying out and constructing Brooksdale Rd. and Lane Park as highway, here. $250,000. J. H. Sullivan, comr.

Mass., Cambridge (Boston, P. O.)—Appropriated $25,600 widening 3rd St. Private plans.

N. Y., Brooklyn—J. J. Byrne, pres. Brooklyn Boro, Boro Hall, rejected bids July 27, grading and granite block on 6 in. concrete paving, etc. Columbia St.; grading, sheet asphalt paving Benson, Flatlands, Gravesend and Utica Aves., East 5th, East 98th and Meserole Sts., etc. Noted July 21.

N. Y. Brooklyn—J. J. Byrne, pres. Brooklyn Boro, Boro Hall, rejected bids Aug. 8, sheet asphalt paving Gravesend Ave. Noted July 28.

N. J., Elizabeth—Union Co. plans concrete paving 1.6 mi. Burnet Ave., near here. $222,000. J. L. Bauer, Elizabeth, engr.

Kentucky—State Hy. Dept., Frankfort, **(S.P. means State Project)** rejected bids July 22, improving S.P. 21-B, Campbell Co., S.P. 58½-D Bracken Co., S.P. 21-D Pendleton Co., S.P. 61-C Bath Co., S.P. 32-L Scott Co., and S.P. 299-A Bell Co. E. N. Todd, highway engr.

Ohio — G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, cancelled bids to have been opened July 29, brick or concrete paving 3.399 mi. Sect. "F" Mansfield-Cresline Rd., Richland Co.; and waterbound macadam, bituminous macadam or concrete, paving 4.667 mi. Sects. "E" and "I," Clermont Co. Noted July 28.

Ohio — G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, received no bids July 29, brick or concrete paving 0.634 mi. Sect. "Kirkersville" Natl. Rd., Licking Co. (Dept. Pub. Wks. furnishing brick, etc., $7,042). Noted July 28.

O., Akron—W. F. Peters, dir. Pub. Serv., postponed curbing, walks and vitr. brick repaving 31,215 sq.yd. East Exchange St. $199,000. Noted July 14.

O., Hamilton—Made plans grading and asphaltic concrete or bituminous macadam paving, etc., 4,500 ft. Grand Blvd., Ludlow, 2nd, Walnut, Francis, Washington and Frankfort Sts., Shuler and Kahn Aves., also Central Ave. from Walnut St. to Walnut Alley, Central Ave. Alley B from Hanover to Washington Sts., and Central Ave. Alley A from Washington St. to Washington Alley. W. Willard, city engr.

Ia., Sioux City—Soon takes bids curbing, paving, etc. 18,000 sq.yd. Clark, 22nd, Lowell, Lafayette, Grand, Dace, Fowler and South Helen Sts. $41,108.

Minn., Fergus Falls—Ottertail Co., plans expending $210,000, improving various roads. O. Skramstad, Fergus Falls, co. engr.

Minn., Minneapolis—Hennepin Co. plans paving 1.5 mi. France Avenue Extension to Minnesota Trunk Highway 5 to Shakopee, $60,000; grading East River Rd. between city limits-junction of St. Paul, Anoka Highway at Coon Creek, $70,000; grading, graveling, etc. 13.65 mi. Monticello Rd. between Jefferson Highway-Crow River Rd. $48,000 and 4.77 mi. Rockford Rd. between Greenwood town and Crow River Rd. $28,500. E. E. Terrell, Court House, co. engr.

Minn., Minneapolis—A. P. Erickson, aud. Hennepin Co., plans grading and graveling Cedar Lake-Wayzata Rd. approximately, $52,000; approximately 6 mi. Lake Independence-Hassan Rd., $34,000; 7.45 mi. Corcoran-Rockford Rd. $32,000; 3.75 mi. Excelsior-Maple Plain Rd., $29,000; 4.2 mi. North Shore Rd., $21,300; 6 mi. Carol Settlement Rd., $21,000; and 11 mi. Dayton-Shakopee Rd., $33,000. E. E. Terrell, Court House, co. engr.

Neb., Lincoln—Soon takes bids asphaltic concrete paving, etc. 12 blocks F, W and 26th Sts., Paving Dists. 429, 633 and 759. D. L. Erickson, City Hall, engr.

N. D., La Moure—La Moure Co. plans constructing 19 mi. Federal Aid Project Highway from point 4 mi. east of here from Highway 13 north through Benson Corners to Barnes Co. Line. $25,000. J. F. Cline, LaMoure, co. engr.

Mo., Joplin—Soon takes bids warrenite bitulithic paving, etc. 12,700 sq.yd. C St. $25,400, and 5 blocks Annie Baxter Ave.; also macadam paving 2,450 sq.yd. 6th St., $3,148. S. P. Ashcraft, Jr., City Hall, engr.

Mo., Neosho—Making preliminary plans grading, curbing and concrete paving 20 blocks various streets. W. E. Smith, city clk.

Mo., St. Louis—See "Unclassified."

Mo., Springfield—Soon takes bids paving 13,164 sq.yd. Robberson and Ferguson Aves. S. R. Fisher, City Hall, engr.

Ark., Eldorado—Soon takes bids grading, curbing, 6 in. rein.-con. paving, etc. 10,000 sq.yd. streets connecting with Eldorado-Smackover Rd. $30,000. W. F. Donathan, City Hall, engr.

Ark., Little Rock — C. E. Bailey, atty. Impvts. Dists. 472 and 473, 819 Rector Bldg., takes bids after Sept. 1, grading, curbing, guttering, and Warrenite bitulithic or brick on concrete, rein.-con. or vibrolithic concrete paving 16 blocks I, L, Polk and Taylor Sts., 27 to 30 ft., $58,000-$60,000. F. A. Pritchett, Reigler Bldg., engr.

Ark., Pine Bluff—Soon take bids grading, curbing and paving 12 blocks Dist. 96, on Pullen St. G. B. Smith Natl. Bank Bldg., engr.

Ark., Pine Bluff — Making preliminary plans grading, curbing, rein.-con., asphalt or asphaltic concrete paving 5 blocks Dists. 56 and 13, Laurel St. from 15th St. to 20th Ave.

Tex., Galveston—Galveston Co. making plans shell shoulders and concrete paving 1.14 mi. State Highway 6, 18 ft. $52,140. C. C. Washington, Galveston, co. engr.

Tex., Jacksonville — Cherokee Co., defeated $3,000,000 bonds, constructing roads and highways.

Tex., Karnes City—Karnes Co. making plans grading, bridging, 1 in. rock asphalt on stone paving 5.838 mi. Highway 16, 18 ft. $190,000. E. L. Marek, Karnes City, engr.

Tex., Leakey—Real Co. soon takes bids caliche on stone surfacing 18.195 mi. Highway 41, from Edwards Co. line to Kerr Co. line. $66,000. B. K. Mason, Leakey, engr.

Tex., Lufkin—Voted $125,000 bonds, paving various streets.

Tex., Plemons—Hutchinson Co. voted $1,250,000 bonds, hardsurfacing various roads. Address W. R. Goodwin, Plemons, co. judge.

Tex., Refugio—Voted $1,250,000 bonds, constructing roads and highways. Address T. W. McGuill, Refugio, co. judge.

Tex., Vernon—Franklin Co. plans graveling and bridging 34 mi. Highway 49. $26,350. Engineer not selected.

Colorado—State Hy. Dept., Denver, rejected bids Aug. 6, grading 2.277 mi. road north of Chattanooga on Highway 19, Federal Aid Project 300-A, San Juan Co., L. D. Blauvelt, Denver, engr.

Ore., Klamath Falls—Klamath Co. takes bids about Oct. 11, grading and surfacing 6 roads. $500,000. G. Henry, Klamath Falls, co. engr.

California — San Francisco Co. (San Francisco), San Mateo Co. (Redwood City), and Santa Cruz Co. (Santa Cruz), making surveys Ocean Shore Highway from San Francisco to Santa Cruz. $8,000,000. M. M. O'Shaughnessy, city engr. of San Francisco. E. M. Kneese, Redwood City, surv. San Mateo Co., and L. K. Bowman, Santa Cruz, surv. Santa Cruz Co.

Calif., Arcadia—G. G. Meade, city clk., making plans curbing, and 4 in. macadam paving, etc., 2nd and Live Oak Aves., etc. $25,000 or more.

Calif., Fullerton—Making plans removing portions present paving and Topeka repaving East Commonwealth and North Berkeley Aves., etc. $25,000 or more.

Calif., San Diego—Common Council plans grading, curbing and 6 in. concrete paving 198,288 sq.ft. Narragansett Ave. F. M. Lockwood, city engr. Noted June 9.

Calif., San Diego—Common Council plans grading, walks and 6 in. concrete paving, etc., 124,916 sq.ft. Goldfinch, Thorn Sts., etc.; also curbing, grading, and 6 in. concrete paving 96,244 sq.ft. Hill and Trumbull Sts., etc. F. M. Lockwood, city engr.

Calif., San Fernando — I. A. Swartout, city clk., making plans curbing, walks and concrete paving, etc., 5th St. and Harding Ave., etc. $25,000 or more.

Calif., Santa Barbara—Making plans curbing, guttering, Durite on asphaltic concrete paving, etc. Pedregosa St., etc. $25,000 or more.

Bids Desired

New York—Sept. 9, by A. W. Brandt, comr. Highways, Albany, constructing 17.78 mi. highways in Dutchess, Montgomery and Sullivan Counties; also reconstructing bridges on highways in Albany, Chenango, Dutchess, Greene, Franklin, Madison, Ontario, Steuben, Ulster, Saratoga, Schenectady and Washington Counties; adv. E. N.-R. Aug. 25.

N. Y., Brooklyn—Aug. 31, by J. J. Byrnes, pres. Brooklyn Boro, Boro Hall

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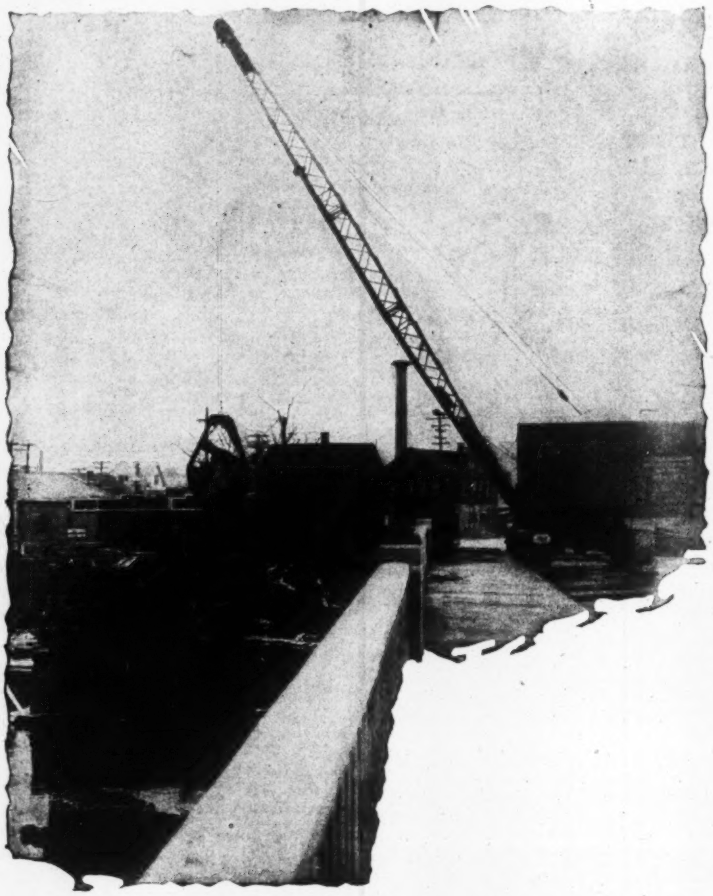

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Atlanta, Ga.
Hurt Bldg.

Chicago, Ill.
McCormick Bldg.

Cincinnati, Ohio
Dixie Terminal Bldg.

Detroit, Mich.
Book Building

New Orleans, Louisiana
Whitney Central Bldg.

New York City
50 Church St.

Philadelphia, Pa.
Packard Building

Pittsburgh, Pennsylvania
Federal Reserve Building

San Francisco, Calif.
Monadnock Building

St. Louis, Mo.
Railway Exchange Bldg.

Streets and Roads (Continued)

grading, etc. Autumn Ave. and East 94th and 95th Sts.; grading and concrete paving, etc. Bedford Ave. and Glenwood Rd.

N. Y., New York—Aug. 30, by J. Miller, pres. Manhattan Boro, Municipal Bldg., granite block on concrete repaving West End Ave., and Henshaw St. (B St.), etc.; recurbing, flagging and reflagging, and granite block paving, etc. 12th Ave., etc.; grading, curbing, flagging, etc. West 43rd and 47th Sts.

N. Y., New York—Aug. 30, by W. J. Flynn, acting pres. Bronx Boro, Crotona Park, Tremont and 3rd Aves., bituminous concrete on concrete paving, etc. portions Lacombe and Castle Hill Aves.; grading, etc. portion Lacombe Ave.; curbing, guttering, sidewalks, sheet asphalt on concrete paving, etc. portions Rochambeau, and Delafield Ave.; grading, curbing, guttering, sidewalks, and sheet asphalt on concrete paving, etc. portion Barretto St.; grading, curbing, guttering, cross walks, sidewalks, asphalt blocks on concrete paving portions East 233rd St. and Lafayette Ave.; grading, curbing, sidewalks, etc. portion 251st St., White Plains Rd., Noble, La Combe, Morris Park and Orloff Ave.; sewers, etc in portion East 233rd and Ordell Sts., Byron and Radcliffe Aves.

New Jersey — Sept. 12, by State Hy. Comn., Trenton, gravel surfacing, bridging, and 8 in. double line rein.-con. paving 21,500 sq.yd. Route 14, Sect. 18, Mays Landing, Atlantic Co. A. L. Grover, ch. clk.; adv. E. N.-R. Aug. 25.

N. J., Bayonne—Aug. 26, by Bd. Boulevard Comrs., Court House, Jersey City, sheet asphalt repaving 31,870 sq.yd. Hudson Co. Blvd. between West 38th and West 56th Sts., here. Private plans.

N. J., Camden—Sept. 6, by Freeholders Camden Co., 8 in. rein.-con. paving, etc., 136,478 sq.yd. Cedarbrook, Clementon, Haddonfield and Sandy Rds. $500,000. J. L. Albertson, Camden, engr.

N. J., Flemington—Aug. 30, by Freeholders Hunterdon Co., penetration macadam paving 1.46 mi. Flemington-Walnut Brook Rd., 16 ft. Grant Davis, White House Station, engr.

N. J., Freehold—Sept. 7, by Bd. Freeholders Monmouth Co., Court House, one course rein.-con. repaving 2.8 mi. Commo-Allenwood Rd. 71, Sect. 2, 20-30 ft. G. K. Allen, 60 Broad St., Red Bank, co. engr.; adv. E. N.-R. Aug. 25.

N. J., Verona (Ind. br. Montclair)—Sept. 6, by Boro Council Rooms, paving and storm sewers, etc. in approximately 1,550 lin.ft. Hillside Ave. P. K. Miller, engr.; adv. E. N.-R. Aug. 25.

Pa., Phila.—Aug. 29, by Dept. Pub. Wks., Bureau of Highways, grading, asphalt repaving, redressed granite block repaving, grading and repaving Allen, Bath and Victoria Sts.; grading and improving City Line and Northwestern Ave.; repairing bridges; and furnishing asphalt paving mixtures. G. H. Biles, dir.

Md., Baltimore—Aug. 31, by Bd. Awards, sheet asphalt paving 10,300 sq.yd. streets listed in Contr. 420. S. Purcell, City Hall, highways engr.

W. Va., Huntington—Sept. 21, by Court Cabell Co., grading, etc. 110,700 cu.yd. Projects 22 to 28 (inclusive) in Barboursville Dist. J. M. Oliver, co. engr.; adv. E. N.-R. Aug. 25.

W. Va., Robson—Sept. 7, by Fayette Co. Court, Court House, Fayetteville, J. C. Hurt, clk., native stone base course surfacing 2.5 mi. Project K-51, County Main System 1, here.

W. Va., Wheeling—Sept. 6, by Bd. Comrs. Ohio Co., T. C. Stevenson, clk., concrete paving portions Ridge Rd., Wheeling and Elm Grove Rd. A. S. Bell, co. road engr.

Florida—Sept 20, by State Road Dept., F. A. Hathaway, chn., Tallahassee, constructing roads and bridges, etc., in Putnam, Collier, Martin, Broward, Palm Beach, Sarasota, Orange, and Lake Counties. J. J. Cresap, state highway engr.

Miss., Carthage— Sept. 15, by Bd. Supervs. Leake Co., improving 4 mi. Carthage-Forest Rd., Federal Aid Project 103, 2,417 cu.yd. excav., 8,345 cu.yd. gravel 1 mi. haul, 10,271 units ½ mi. haul; also 12,517 tons washed and sand clay gravel f.o.b. Walnut Grove. H. C. Dietzer, Jackson, engr.

S. C., Greenville — Aug. 30, by G. G. Wells, city clk. at office R. W. Watson, mayor complete system of streets and sidewalks. D. A. Hulick, city engr.; adv. E. N.-R. Aug. 25.

Ala., Birmingham — Sept. 30, by City Comn., curbing, walks, guttering and 2 in. bitulithic on 6 in. concrete paving 6 blocks 50th St., 50th St. S., and 3rd Ave. S. 26 ft., $20,750; 1½ in. bitulithic on 6 in. concrete paving 6 blocks 12th St. S., 11th Pl. S. and 9th Court S., 30 ft., $35,600; sheet asphalt with 1 in. binder course and ½ in. wearing surface on 6 in. concrete paving 3 blocks 50th St. S., 26 ft., $14,750; grading, curbing, guttering, walks and 2 in. asphalt on 5 in. concrete paving 7 blocks 85th St. S., 86th St. S. and 3rd Ave. S., 30 ft., $56,000; grading and 6 in. concrete paving 4 blocks Bush Blvd. Alley $3,125, and 3 blocks 9th Court Alley S. $3,200, both 12 ft. A. J. Hawkins, city engr.

Tennessee—Sept. 16, by State Dept. Highways & Pub. Wks., Nashville, grading 155.525 mi. roads in Benton, Humphreys, Hardin, Madison, Shelby, Obion, Davidson, Rutherford, Weakley, Sullivan, Smith, Haywood, Scott, Campbell, Lake and Robertson Counties; and bridges in Loudon, Benton, Hardin, Carter, Marshall, Robertson, Union, Hamilton, Houston, Dickson and Carroll Counties. C. N. Bass, comr.; adv. E. N.-R. Aug. 25.

Kentucky—Sept. 9, by State Hy. Dept., Frankfort, surfacing 6.064 mi. Mayslick-Wedonia Rd., State Aid Project 173-A, Mason Co. E. N. Todd, highway engr. Noted July 7.

O., Barberton—Aug. 29, by Bd. Control, paving, etc. Parkview and Lloyd Sts. $25,000.

O., Cincinnati—Sept. 2, by Comrs. Hamilton Co., grading, guttering and concrete paving 55,800 sq.yd. and asphalt macadam paving 7,800 sq.yd. Cleves and Warsaw Rd. $406,345. E. A. Gast. Court House, engr.

O., Cleveland — Aug. 27, by Bd. Comrs. Cuyahoga Co., paving, etc. South Woodland (2 sections), Oakes and Sprague Rds. $1,000,000. F. Lander, Court House, engr.

O., East Fultonham—Aug. 29, by Comrs. Muskingum Co. (Zanesville), grading and brick paving, etc. ½ mi. Main St., 16 ft. $30,000.

Illinois—Aug. 31, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete, vitr. brick with asphalt filler or bituminous concrete with or without binder course surfacing 0.55 mi. Route 2, Sect. 73-V-1 Lee Co., 2.18 mi. Route 13, Sect. 17 Perry Co., 7.89 mi. Route 49, Sect. 135, and 8.06 mi. Route 49, Sect. 136 both Iroquois Co., 9.84 mi. Route 72, Sect. 114 Ogle and Carroll Counties, 1.61 mi. Route 91, Sect. 111 Peoria Co., 1.88 mi. Route 110, Sect. 115 and 3.01 mi. Route 110, Sect. 119 both Macoupin Co., and 0.78 mi. Soldiers and Widows Home Rd., Will Co.; gravel and concrete surfacing, etc. Project 7, Sect. 1-A, La Salle Co.; grading 0.39 mi. Route 12, Sect. 1-V-1 Lawrence Co., 5.82 mi. Route 51, Sect. 102-A Cook Co., 5 mi. Route 59, Sect. 106-A Lake Co., 3.28 mi. Route 72, Sect. 113-A Carroll Co., 1.46 mi. Route 78, Sect. 134-A Fulton Co., 1.22 mi. Route 89, Sect. 115-A Bureau Co., 7.44 mi. Route 142-A, Sect. 101-A Wayne Co., 1.62 mi. Route 160, Sect. 134-A Madison Co., and 6.45 mi. Route 182, Sect. 101-A Marion Co. F. T. Sheets, ch. highway engr.

Ill., Bensenville — Aug. 31, by Village, grading, curbing, guttering and paving 91,000 sq.yd. various streets; adv. E. N.-R. Aug. 25.

Wisconsin—Sept. 1, by State Hy. Comn., Div. Office 2, 206 Stephenson Bldg., Milwaukee, grading, etc., 2.5 mi. Fond du Lac-Banner Rd., State Trunk Highway 23, Federal Aid Project 427-B, Fond du Lac Co.; also grading, concrete paving, etc., 72,883 sq.yd. Blue Mound Rd., Federal Aid Project 268-A, Milwaukee Co. H. W. Vroman, div. engr.

Wisconsin—Aug. 30, by State Hy. Comn., Court House, Rhinelander, grading, graveling, etc. 7,695 cu.yd. Kennan-Pennington Rd., Federal Aid Project 371-B, Price Co. F. M. Sergeant, div. engr.

Wisconsin—Sept. 2, by State Hy. Comn., Div. Office 8, 1st Natl. Bank Bldg., Superior, grading, concrete paving, etc. 45,455 sq.yd. Spooner Rd., Federal Aid Project 377-B, Douglas Co. H. F. Holmes, div. engr.

Wis., Antigo—Aug. 31, by State Hy. Comn. and C. Olsen, highway comr. Langdale Co., grading, concrete paving, etc. 77,741 sq.yd. Aniwa-Antigo Rd., State Job 7764. F. M. Sergeant, div. engr.

Ia., Charles City — Sept. 12, at office Auditor Floyd Co., gravel resurfacing 5 mi. Secondary Road Project 12; also steel or treated timber approaches and redecking 200 ft. span bridge on Rockford-Marble Rock Rd. J. H. Curtis, Charles City, co. engr.

Ia., Ft. Dodge—Aug. 30, by City, C. W. Wakeman, city clk., grading and surfacing 15 blocks 9 streets and avenues.

Ia., Orange City—Aug. 29, at office Auditor Sioux Co., grading, etc., bridge approach grade, 13,000 cu.yd. excav., etc. J. W. Wiersma, Orange City, co. engr.

Kan., Atchison — Sept. 1, by Clerk Atchison Co., grading and concrete paving, etc., 602 cu.yd. Project 2-D. R. D. Coleman, 604 North 3rd St., engr.

Kan., Holton—Aug. 31, by Clerk Jackson Co., sand or gravel surfacing 9.558 mi. Project 112 B, C and E. P. W. Wright, Holton, engr.

Kan., Seneca—Sept. 2, by Clerk Nemaha Co., grading and concrete paving 567 cu.yd. Federal Aid Project 319, Sect. C. L. P. Price, Seneca, co. engr. Noted Aug. 11.

Neb., Grand Island—Sept. 3, by District Engineer Dept. Pub. Wks., Court House, **(F.A.P. means Federal Aid Project and S.P., State Project)**, improving F.A.P. 215-B, 32,800 cu.yd. excav., 20,000 cu.yd. sta. overhaul, 43,300 sq.yd. sand graveling, 3,365 cu.yd. sand clay surfacing, etc.; 2 mi. F.A.P. 228-D, 19,700 cu.yd. excav., 12,000 cu.yd. sta. overhaul, 19,264 sq.yd. paving, 10,000 sq.yd. sand graveling, etc.; and 0.9 mi. S.A.P. 603-A, 5,700 cu.yd. excav., 3,000 cu.yd. overhaul, 9,600 sq.yd. paving, etc., all in Hall Co. R. L. Cochran, State House, Lincoln, state highway engr.

Missouri—Sept. 2, by State Hy. Comn., Jefferson City, grading, etc., 21.551 mi. roads in 9 counties; 18 ft. graveling 6.213 mi. roads in Jackson and St. Clair Counties; 18 ft. chats surfacing 16.306 mi. roads in Barton and Vernon Counties; 9 ft. concrete paving 2.644 mi. Chillicothe-South Rd., Livingston Co.; and 18 ft. concrete paving 4.303 mi. roads in Cass, Jackson, Lawrence, Linn and St. Louis Counties. T. H. Cutler, ch. engr.

Arkansas—Aug. 30, by State Hy. Comn., Little Rock, grading, bridging, etc., roads in Sebastian, Cleburne, Conway, Scott, Jackson, Calhoun, Logan and Poinsett Counties. C. S. Christian, ch. engr. Noted June 30.

Tex., Cleburne—Sept. 2, by C. H. Teesdale, engr., Cleburne, paving, etc. approximately 7 blocks Brown St. east line North Main St. intersecting with west line North Caddo St., for City. $35,000.

Tex., San Antonio — See "Contracts Awarded."

Oklahoma—Aug. 27, by State Hy. Dept., Oklahoma City, concrete surfacing 193,604 sq.yd. Federal Aid Project 139, Sects. A, B, D, E and G, Logan Co., $613,000; and 68,055 sq.yd. Federal Aid Project 139-H, Noble Co., $165,000. J. M. Page, highway engr.

Oklahoma—Sept. 7, by State Hy. Dept., Oklahoma City, **(F. A. P. means Federal Aid Project, and S. A. P. State Aid Project)**, grading, etc., 12.24 mi. S. A. P. 250-A and B, Adair Co. $75,000, 8.85 mi. S. A. P. 347, Coal Co. $40,000, 10.5 mi. F. A. P. 215-A and B, Comanche Co. $50,000, 5.87 mi. F. A. P. 202, Grady Co. $25,000, 14 mi. F. A. P. 131-A and B, $60,000, and 16 mi. F. A. P. 136-A, B and C, $70,000, all Lincoln Co., 5.1 mi. F. A. P. 230-A, Noble Co. $25,000, 20.81 mi. F. A. P 198-A, B, C and D, Payne Co $110,000, 10.76 mi. F. A. P. 229-A and B, $50,000, and 6.85 mi. F. A. P. 230-B, $35,000, all Pawnee Co., 11.78 mi. F. A. P. 222-A and B, Seminole Co. $65,000, and 3.78 mi. S. A. P. 453, Tillman Co. $25,000; grading and bridging 1.912 mi. F. A. P. 157, Cotton Co., $25,000; concrete surfacing 42,716 sq.yd. F. A. P. 180, Garfield Co. $110,000, also 42,600 sq.yd. F. A. P. 187-A and 36,210 sq.yd. F. A P 187-B, both Stephens Co $208,000. C. A. Mindigo, Capitol Bldg., Oklahoma City, engr.

Okla., Pond Creek—Sept. 6, by M. E. Allen, city clk., grading, curbing and concrete surfacing 8,600 sq.yd. Dist. 2. $28,091. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Nevada—Aug. 31, by Directors Dept. Hys. Carson City, graveling, etc., 23,000 cu.yd. Route 2 Sect. C-1, Churchill Co. S. C. Durkee, highway engr.

Washington—Sept. 6, by State Hy. Comn., Olympia, grading and concrete paving 0.04 mi. Pacific Highway, Brier Crest Fill, King Co.; crushed graveling 12,430 cu.yd. State Road 9, Jefferson and Clallam Counties; and crushed rock surfacing 15,170 cu.yd. State Road 5, Yakima and Kittitas Counties. S. J. Humes, state highway engr.

Wash., Seattle—Sept. 6, by Comrs. King Co. grading, graveling and constructing undergrade crossing on 1.75 mi. Stillwater-Snohomish Co. Line Rd. D. Evans, city engr.

Calif., Claremont—J. D. Johnson, city clk., taking bids constructing (1st unit) Arrow Route in Pomona Valley. To exceed $25,000.

Calif., Corcoran—J. C. Congdon, city clk., taking bids grading, walks, and 1½ in. Warrenite on 3½ in. asphaltic concrete paving 222,300 sq.ft. King and Chase Aves., etc. A. Segel, Griffith-McKenzie Bldg., Fresno, engr.

Calif., Fullerton—F. C. Hezmalhalch, city clk., taking bids curbing and asphaltic concrete paving West Malvern St., etc. To exceed $25,000.

Calif., Los Angeles—Sept. 6, by Supervs. Los Angeles Co., grading, curbing, walks and 2 in. sheet asphalt paving 105,340 sq.ft. and 5 in. waterbound macadam paving, etc., 102,795 sq.ft. Western Ave. $44,687. G. W. Jones, Hall of Records, engr.

Constr. News page 97

Raising the Flag of Victory

The flag-raising ceremony is an interesting and important function in the building of America's longest railroad tunnel—the new Cascade Tunnel on the Great Northern Railway.

The flag of the Mountain Goat, the symbol of the Great Northern Railway, is awarded to the crew driving the tunnel the farthest during a single month. The award is made each month, but the flag continues to float over the headquarters of the most recent winner until its record is bettered by some other crew.

The spirit of competition that is aroused has resulted in unusual progress and the making of many records.

984 Feet of 10 x 10 Tunnel in 31 Days

This record was made in the East Portal of the Cascade Tunnel in September, 1926; and this was achieved with "Leyner-Ingersoll" R-72 Drifters. An advance of 984 feet of 10 x 10 tunnel through hard rock is a world's record. Greater footage has been made in tunnel driving for a 31-day period, but never before has greater distance been made in a tunnel of this size.

The amount of rock removed from 984 feet of 10 x 10 tunnel is equivalent to 3644 cars of 2-yd. capacity.

The Ingersoll-Rand R-72 Drill was selected because of its power and great drilling speed. Four drills mounted on a horizontal bar put in rounds of 30 holes in record time. Because it could stay on the job shift after shift over long periods the R-72 was made the choice for the EastPortal and Mill Creek sections of this tunnel, where hard rock has generally been encountered.

The work on the Great Northern Tunnel is being done by A. Guthrie & Co., Inc., of St. Paul, Minn., and Portland, Ore.

The R-72 Drifter

INGERSOLL-RAND COMPANY-11 BROADWAY, NEW YORK CITY.

Offices in principal cities the world over.

FOR CANADA REFER-CANADIAN INGERSOLL-RAND CO. LIMITED, 260 ST. JAMES STREET, MONTREAL, QUEBEC.

157-LI

Ingersoll-Rand

Streets and Roads (Continued)

Calif., Los Angeles—Sept. 19, by Supervs. Los Angeles Co., grading, oil and rock on 6 in. disintegrated rock paving 2 mi. Lancaster Wilsonia Rd. G. W. Jones, Hall of Records, engr.

Calif., Los Angeles—Sept. 12, by Supervs. Los Angeles Co., grading, curbing, guttering, walks, and oil macadam paving 70,622 sq.ft. Waltonia and Florencita Drs. $41,170. G. W. Jones, Hall of Records, engr.

Calif., Merced—P. J. Thornton, clk. Merced Co., taking new bids concrete paving 3 mi. Merced-Snelling-Merced Falls Rd., Sect. 4. W. E. Bedesen, Merced, co. surv. Former bids rejected. Noted Aug. 11.

Calif., Oakland—F. C. Merritt, city clk., taking bids grading and 2 in. Warrenite bitulithic on 6 in. concrete paving 130,266 sq.ft. East 8th St. Former bids rejected. G. N. Randle, city engr. Noted July 21.

Calif., Redwood City—Sept. 6, by E. M. Kneese, clk. San Mateo Co., grading and 6 in. concrete paving 77,000 sq.ft. Princeton Rd. G. A. Kneese, Redwood City, co. engr.

Calif., Roseville — City Trustees taking bids grading, curbing, guttering, on 2½ in. asphalt paving 25,150 sq.ft. Folsom Rd.,, etc. C. C. Kennedy, Call Bldg., San Francisco, engr.

Calif., Santa Cruz—S. A. Evans, city clk., taking bids 5 in. concrete paving, etc. portions Soquel and Seabright Aves., etc., $25,000 or more; also Soquel and Trevethan Aves., etc. R. Fowler, city engr.

Calif., Santa Paula—M. G. Demarest, city clk., taking bids curbing, walks and asphaltic concrete paving Orchard St., etc. $25,000 or more. H. E. Reddick, city engr.

Bids Received

N. Y., Rye—Grading, paving, etc. Rye Beach Approach, here, Contr. 151, from Standard Bithulithic Co., 50 Church St., New York City **(A)** $91,065; from Hastings Pavement Co., 25 Broad St., New York **(B)** $90,465; from Marshall Constr. Co., 1760 Bway., New York City **(C)** $79,859; and from John Arborio **(D)** $74,525.

N. Y., Syracuse—Bd. Contr. & Supply, Aug. 15, from Dale Eng. Corp., 1066 North Gedds St., paving Eastman Ave. $14,716, Hastings Pl. $7,887, and Shotwell Park $10,718; from Guy Dickison, Union Bldg., Hickory St. $8,148, and Wadsworth Dr. $33,346; also from Rago Bros., Union Bldg., Twin Hills Dr. $34,437, and South Geddes St. $52,075.

Contracts Awarded

New Hampshire—State Hy. Dept., Concord, Aug. 5, 3 in. on 6 in. graveling 6,412 cu.yd. Central Rd., in Strafford and Bennington, to Highland Constr. Co., Fall River, Mass., $19,146. Engrs. est. $30,000. Noted Aug. 14.

Massachusetts—Dept. Pub. Wks., Boston, graveling with bituminous surface treating 5,121 ft. highway in Gill, to Warner Bros., Sunderland, $29,448; bituminous macadam paving 5,020 ft. in Pittsfield, to Hampden Constr. Co., 98 Lincoln Park, Longmeadow $38,827, 4,100 ft. in Ayer, to R. H. Newell Co., Uxbridge $27,903, and 4,100 ft. in Marlborough, to Greenough Constr. Co., South Acton $22,097. Grand total $118,275. Noted July 28.

Conn., Bristol—Concrete curbing, guttering and sidewalks on 5,750 ft. Tulip St., to C. Vacca, Terry Rd.

Conn., East Hartford (br. Hartford)—Concrete paving various streets, to Zajicek Bros., Hebron Ave., Glasstonbury, $52,800. Engrs. est. to exceed $25,000.

New York—A. W. Brandt, comr. Highways **(e.e. means engineers estimate)**, reconstructing 5.93 mi. Highway 8285, Bettsburg-McClure Rd., Part 2, Broome Co., to J H. McAllister, Hudson, $325,353 e.e. $467,357, 8.27 mi. Repair Contr. 3180, Palatine Bridge-Fonda Rd., Parts 1 and 3, Highways 5124 and 5125, Montgomery Co., to Riteway Constr. Co., 299 Bway., New York City, $525,837 e.e. $689,082, and 0.24 mi. Repair Contr. 1636, Saranac Lake-Lake Clear Junction, Part 2, Highway 1179, Franklin Co., to L. A. Malone, Lake Placid, $9,611 e.e. $12,444, bridge and approaches on 0.18 mi. Repair Contr. 1632 Martinsburg-Turin, Highway 5077, Lewis Co., to Sheppard Constr. Serv. Inc., 1711 Spring St., Syracuse, $44,517 e.e. $55,889, and on 0.05 mi. Repair Contr. 1631, Little Valley-Randolph, Highway 5258-A, Cattaraugus Co., to H. T. Gumtow, Eden, $12,896 e.e. $15,441. Grand total $918,214. Noted July 21.

N. Y., Albany—To E. B. Stevenson, 443 Bway., concrete paving Betwood St. $25,251, Vuyler Ave. $10,517, Marwood St. $27,523, Partridge St. $12,704, Peyster St. $5,781, Lancaster St. $13,288, and Rose Court $30,090, also concrete paving approximately 1,415 ft. Holmes Court and sewers, etc. in Mereline Ave. $36,694; to H. Dumary Co., Inc., 119 State St., redressed granite and concrete repaving Hamilton St. $113,494, and vitr. brick on concrete repaving Myrtle Ave. $35,146 and to S. B. Easton, 47 Fairlawn St., New Scotland Ave. $32,192; to Campion Constr. Co., Inc., 776 Bway., concrete paving Sanders St. $9,450, and to M. F. Dollard, 36 State St., Whitehall Rd. $1,858. Grand total $383,120.

New York—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading Saw Mill River Rd. from Yonkers to Dobbs Ferry, to Charles Bennett Impvt. Co., 465 Fenimore Pl., Brooklyn, $271,809; also lighting system in Tibbetts Brook Park, to Ransom & Anderson, 136 Liberty St., New York City, $36,241. Noted July 21.

N. Y., Brooklyn—J. J. Byrne, pres. Brooklyn Boro, Boro Hall, granite block paving Dikeman St., to M. J. Grant, 139 Potter Ave., Astoria $46,037, and Nassau Ave., to Leonard Paving Co., Woolworth Bldg., New York City, $60,218; also sheet asphalt paving Avenue U, to G. M. Mandato Contg. Co., 201 Neck Rd., $76,611. Grand total $182,866. Noted July 28.

N. Y., Cheektowaga—Concrete paving 17 streets, and widening Pine Ridge Rd. and Harlem Ave., to Meyer & Meyer, Doat and Alexander Sts., $234,635.

N. Y., Syracuse—Bd. Contr. & Supply, City Hall, to J. H. Gallup, Merchants Bank Bldg., grading and paving Bennington Dr., $83,485; to G. Dickison, Union Bldg., Wendell Terrace, $30,968, Fineview Pl. $8,749, Oakland St. $11,122, Bruce St. $16,411, Stadium Pl. $4,972, and West Jefferson St. $32,328; to Rago Bros., Union Bldg., Emma St. $24,613, Cannon St. $14,237, and Garfield Pl. $7,253. Grand total $234,138. Noted July 14.

N. J., Jersey City — Bd. Boulevard Comrs., Court House, sheet asphalt on concrete repaving Hudson Co. Blvd. between Kensington and Stuyvesant Aves., to Uvalde Asphalt Paving Co., 2 Greene St., $89,557.

N. J., New Brunswick — Paving Jersey, Howard, Talmadge and Washington Sts., to Utility Constr. Co., 5 Spring St., $30,000.

N. J., Ocean City—Concrete paving Bay Ave., to Monihan & Hall, 31st and Asbury Sts., $81,797.

N. J., Westmont (mail Collingswood)—Haddon Twp. Com., paving, etc. Stokes, Walnut, Emerald, Elm, Elgin, Locust and Burwood Sts., to E. F. Verga, 440 Carteret Ave., Camden, $140,000.

Pennsylvania—State Hy. Comn., Harrisburg **(R. means Route and A. Application)**, concrete paving 7,385 sq.yd. R. 381, A. 3951, Berks Co., to Kutztown Constr. Co., Kutztown $41,969, 11,531 sq.yd. R. 231, Adams Co., to J. S. Teeter, Taneytown, Md. $46,369, 38,153 sq.yd. R. 336, A. 4928, Northumberland Co., to Eastern States Constr. Co., Woodlawn $170,265, 8,323 sq.yd. A. 4709, Erie Co., to C. H. Fry Constr. Co., Erie $35,053, 18,905 sq.yd. A. 4279, Huntingdon Co., to L. R. Mathieu, 712 4th St., Altoona $94,855, 10,226 sq.yd. R. 57, Center Co., to Milson & Curtiss, Philipsburg $42,172, 42,803 sq.yd. R. 239, A. 4275, Columbia Co., to Colonial Constr. Co., Arrott Bldg., Pittsburgh $204,911, and 5,828 sq.yd. R. 84, Erie Co., to F. E. Winter, Erie $25,582; also rein.-con. paving, etc. 14,133 sq.yd. R. 281, Bucks Co., to Collins & Maxwell, Easton, $66,980. Grand total $728,156. Noted July 14.

Md. Baltimore — Bd. Awards, concrete paving 19,700 sq.yd. various streets, Contr. 422, to Arundel Constr. Co., Knickerbocker Bldg. $43,802; asphalt paving 8,720 sq.yd. Contr. 423, to Amer. Paving Contg. Co., Montebello Ave., $45,837. Noted Aug. 4.

Virginia—State Hy. Dept., Richmond, grading, etc. 4.7 mi. Route 14, Breckinridge Co., and 4.25 mi. Route 116, Scott Co., to Mayre & Blankenship, Chawesville, $66,024 and $57,754 respectively; bituminous macadam surfacing 2 mi. Route 10, Bedford Co., to Pace Constr. Co., Roanoke, $67,904. Grand total $191,682. Noted July 7.

West Virginia — State Road Comn., Charleston, to Price Constr. Co., Huntington, grading, etc. 5 mi. Project 2133 Marion Co. $34,005; to C. C. Fuller, Doble, O., bituminous macadam on brick surfacing also concrete shoulders on 3 mi. Project 53, Harrison Co. $64,640; to S. A. Gilmer, Lewisburg, widening brick pavement with brick shoulders and rock resurfacing 1 mi. Project 2115, Harrison Co., $39,611; to M. F. Lane, Buckhannon, concrete surfacing 1.25 mi. Project 2128 $16,221, and 1.94 mi. Project 4-A and 2130, $23,401, both Marion Co., to Ferguson Bros. Co., Shinnston, 0.5 mi. Project 2121-B, Harrison Co. $50,697, and Project 2133 Marion Co. $97,955, to M. F. Allen, Clarksburg, 1,000 ft. Project 2114, Harrison Co. $18,795, to F. H. Stanbaugh, Ada, O., Project 155-B, Sect. 1, Taylor Co. $137,021, Project 155-B, Sect. 2, Taylor Co. $69,558 and 2.67 mi. Project 155-C, Marion Co. $75,055, to Monongahela Constr. Co., Fairmont, 1.35 mi. Project 2135, Marion Co. $18,100, to F. F. Hallum & Son, Fairmont, 3.6 mi. Project 3367, Monongahela Co. $113,856; to C. Spindler Sons, Kingwood, 4 ft. concrete widening 0.85 mi. Project 2134, Marion Co., $6,178; to McKee & Ballasec, Jeffersonville, Pa., local gravel surfacing 6 mi. Project 3162-A and B, Wetzel Co., $31,860; to Stallings Constr. Co., St. Albans, grading, gravel surfacing, etc. 2.5 mi. Project 3296, Mason Co., using metal pipe, $16,377. Grand total $813,330.

W. Va., Clarksburg—Paving portion Monticello St., to T. P. Keenan Co., Clarksburg, $31,200.

W. Va., Wheeling—Ohio Co. Court, brick paving Chapline St. extension, to H. L. Seabright Co., 70-43rd St., $26,015; and grading 2 mi. Glenns Run-Cherry Hill Rd., to Stringer & Springer Constr. Co., Wheeling Bank & Trades Bldg., $45,060. Noted Aug. 4.

N. C., Greensboro—Paving and sewers in western section city, Contr. 16, to Murray Constr. Co., Greensboro, $211,152; in northern section city, to Contr. 17, also sewers and mains in various streets, Contr. 7, to R. G. Lassiter Co., Greensboro, $169,260 and $49,674 respectively. Grand total $430,085.

Georgia—State Hy. Dept., East Point, grading, etc. 6.6 mi. roadway in Bartow and Gordon Counties, to Lake Worth Constr. Co., Lake Worth, Fla., $81,154; grading and top soiling 5.516 mi. roadway, Elbert Co., to Brooks Constr. Co., Molena, $51,936; grading and sand clay surfacing 8.2 mi. roadway, Long Co., to Thompson & Moseley, Inc., 608 Tampa St., Tampa, Fla., $41,959; and surface treating 9.375 mi. Fitzgerald-Abbeville Rd., Ben Hill Co., to Cambell Contg. Co., Columbus, $155,795. Grand total $330,844.

Ga., Macon—Plain concrete 15,118 sq.yd. streets, to Hall & Bowen, 5th and Bay Sts., at $2.01 per yd.

Miss., Winona—Grading, etc. 4.423 mi. Federal Aid Project 46-B, 18 ft., to T. E. Collins & Co., Raymond, $25,720. Noted July 21.

Tenn., Nashville—See "Unclassified."

Ohio — G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, concrete paving, etc., 1.221 mi. Sect. "A" Cleveland-Elyria Rd., Cuyahoga Co., to Holmes Constr. Co., Wooster, $89,291, 1.957 mi. Sect. "B" same road, to Ohio Eng. Co., Lorain, $136,808, and 0.579 mi. Sect. "Dayton" Wooster-Massillon Rd., Wayne Co., to G. B. Herring & Son, Mansfield, $19,918; waterbound macadam paving 2.031 mi. Sect. "F" Mansfield-Cresline Rd., Richland Co., to Kenton Constr. Co., Kenton, $14,882; grading, etc., 0.379 mi. Sect. "L" McArthur-Athens Rd., Athens Co., to F. H. Beckler, Athens, $8,000, 5.628 mi. Sect. "E," etc., Canton-Steubenville Rd., Carroll Co., to Canton Sand & Gravel Co., Clarendon Ave., Canton, $29,673, Sects. F and H Ohio River Rd., Gallia Co., to Miller Bros., Gallipolis, $14,869, and 0.819 mi. Sect. "K," etc., Ohio River Rd., Washington Co., to H. Pattin, Beverly, $22,380; also 3 in. brick paving 0.6 mi. Sect. "L" Natl. Rd., Guernsey Co., to S. Renick, Cambridge, $21,799 (furnishing and delivering brick by Dept. of Pub. Wks. for same $5,390). Grand total $357,620. Noted July 28.

O., Akron—W. F. Peters, dir. Pub. Serv., grading, curbing, walks and vitr. brick paving 4,190 sq.yd. Moreley Ave., to McCourt Constr. Co., 369 South Main St., $33,885. Engrs. est. $43,600. Noted July 14.

O., Akron — Summit Co., grading and traffic bound slag paving 1.27 mi. Richfield-Hudson Rd. C. H. 19, Sect. "A-1," 18 ft., to Gray & Quillen, Millersburg, $24,958. Engrs. est. $25,900.

O., Cincinnati—Hamilton Co., grading and asphaltic macadam paving 30,600 sq.yd. Three Mile Rd., to Pickelheimer & Slone, 2312 Mound Ave., Norwood, $69,584. Engrs. est. $78,995.

O., Cincinnati—Curbing, walks and concrete repaving 5,200 sq.yd. Custer St., to O'Connell & Sweeney, Florence and Concord Sts., $31,821. Engrs. est. $34,857.

O., Cleveland—Grading, curbing and 4 mond Rd., to Highway Constr. Co., Guar- in. vitr. brick paving 30,700 sq.yd. Rich- antee Title Bldg., $177,202; also curbing, guttering and concrete paving 57,880 sq.yd. State Rd., to Cleveland Trinidad Paving Co., The Arcade, $403,990.

O., Cleveland—Grading and paving with **(a)** brick **(b)** asphalt **(c)** concrete **(1)** East Blvd. **(2)** Oak Park (Sect. 1) **(3)** Oak Park (Sect. 2) **(4)** Portman Ave. **(5)** West 106th St. **(6)** West 39th St. **(7)** East 140th St. **(8)** Linn Dr. **(9)** West 39th St. **(10)** Truax Rd. **(11)** West 60th Pl., to Highway Constr. Co., Guarantee Title Bldg. **(a1)** $25,274

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Streets and Roads (Continued)

(a2) $44,173 **(a3)** $65,785 **(a4)** $50,276 **(b5)** $46,309 **(a8)** $11,444; to Roehl Bros., 7002 Denison Ave. **(b9)** $1,789 **(a10)** $12,-252 **(b11)** $5,633; to Enterprise Paving & Constr. Co., 8444 Bway. **(c6)** $7,483; to J. C. Wenrick, 1851 East 82nd St. **(c7)** $4,125; and to H. G. Herring, Wayside Rd., grading Chester Ave. $4,771. Grand total $279,314.

O., Cleveland—Paving with **(a)** brick **(b)** asphalt **(1)** West 65th St. **(2)** West 63rd St. **(3)** West 62nd St. **(4)** East 120th St. **(5)** East 106th St. **(6)** Matilda Ave. **(7)** East Blvd. **(8)** West 45th St. **(9)** West 155th St. **(10)** East 9th Pl. **(11)** Lorain Ave., to Highway Constr. Co., Guarantee Title Bldg. **(b1)** $20,473 **(b2)** $21,843 **(b3)** $20,473 **(b4)** $10,246 **(b5)** $12,546 **(a6)** $12,592 **(b7)** $16,877; to Roehl Bros., 7002 Denison Ave. **(a8)** $1,408; to Enterprise Paving & Constr. Co., 8444 Bway. **(b9)** $3,803; to Rieley Bros., The Arcade **(b10)** $5,198 **(b11)** $29,795; also to J. C. Wenrick, 1851 East 82nd St., grading West 44th St. $4,627, Xenia Court $3,623, and Osage Ave. $3,263. Grand total $166,767.

O., Dayton—Brick on concrete paving 13,-350 sq.yd. Webster St., to C. C. Adams, 415 Kenwood Ave., $53,220. Noted June 9.

O., Leetonia — Grading and surfacing Lisbon and Walnut Sts., to Lewis & Copeland, Lima, $49,292. Engrs. est. $50,000. Noted Aug. 18.

Ind., Indianapolis—Asphalt paving Meridian St., to Marion Constr. Co., 1600 South West St., $68,000 and 30th, Regent and English Sts., to Indiana Asphalt Paving, 2810 Columbia St., $8,043.

Ind., Madison—Concrete paving ⅝ mi. 19th St., to Lyst & McVaugh, Anderson, $26,420 and ⅝ mi. 31st St., to W. C. Halsted, Noblesville, $28,940.

Michigan—C. L. Cougill, resident engr., Plymouth, concrete paving 0.814 mi. Mo 82-6, Contr. 4, Wayne Co., 40 ft., for State Hy. Dept., Lansing, to Wayne Co. Road Comn., Detroit, $71,391. Noted July 28.

Mich., Detroit—Concrete curbing and one course concrete paving Justine, Shields, and Sunset Aves., to Cooke Asphalt Paving Co., 1240 Penobscot Bldg., $71,527; Otsego, Rangoon Aves. to Otis Cement Constr. Co., 419 Hammond Bldg., $6,714; St. Aubin, Cardoni Aves., to Bishop & Weir, 6451 East 6 Mile Rd., $12,398; Justine, Sirron and Hickory Aves., to W. G. Tatti, 1337 Three Mile Dr., $25,851. Grand total $116,490. Noted July 14.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete paving 5.7 mi. road near Bunker Hill, State Route 112, Madison and Macoupin Counties, to Madison Constr. Co., Edwardsville, $117,530; and concrete subway near Athens, on State Route 13, to W. C. Johnson, Belleville, $16,600.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, paving Route 88, Sect. 127, Peoria Co., to Hartman-Clark Bros. Co., 330 Peoria Life Bldg., Peoria $25,712, Route 89 Sects. 126 and 127, Woodford Co., to Cameron, Joyce & Co., Keokuk, Ia. $198,897, Routes 60 and 61, Sect. 111, McHenry Co., to S. & H. Constr. Co., Milwaukee, Wis. $244,213, Route 113, Sect. 111, Will Co., to E. J. Tegge Constr. Co., Papineau $102,153, and Route 78, Sect. 133, Fulton Co., to Central Eng. Co., Putnam Bldg., Davenport, Ia. $169,200. Grand total $740,175.

Ill., Chicago—Bd. Local Impvts., grading, curbing, guttering, sewers and 7 in. concrete paving portion alley in East 670 Blk., to J. P. O'Brien & Co., North Cicero Ave., and portions 3 alleys, to Paramount Constr. Co., 107 North Clark St.; grading, curbing, guttering and asphalt on 6 in. concrete paving, etc. portions Cuyler and Parkhurst Aves., to White Paving Co., 1735 Fullerton St., portion Lowe Ave., to Amer. Asphalt Paving Co., 133 West Washington St., and portions West 17th St. and Kildare Ave., to R. F. Conway Co., 844 Rush St.; grading, curbing, guttering and 8 and 10 in. concrete paving portions South Fairfield Ave., to J. Dillon & Co., 2953 Halstead St., portion 37th St., to Ready & Callahan, 133 West Washington St., portion North Kedzie Ave., to Central Paving Co., 179 West Washington St., and portion Pine Grove Ave., to R. R. Anderson Co., 625 North Kedzie Ave.

Ill., Evanston—Bd. Local Impvts., paving portions various alleys, Payne, Darrow and Davis Sts., to M. Foley Co., Evanston, $98,100.

Wisconsin—State Hy. Comn. and E. D. Nitschke, highway comr. Dodge Co., Juneau, type B crushed graveling 17,716 cu.yd. Rubicon-South County Line Rd., Job 1089, to Balmat & Sons Constr. Co., Clear Lake, Ia. $35,846.

Wis., Hudson—G. R. Hosford, city clk., grading and concrete paving approximately 14 542 sq.yd. various streets, to Fielding & Shepley, 1528 Bohn St., St. Paul, Minn., $33,438. Noted July 28.

Ia., Council Bluffs—Warrenite bitulithic paving 11,563 sq.yd. various streets, to J. J. Wickham, Council Bluffs, at $2.64 per sq.yd.

Ia., Decorah—Winneshiek Co. improving Decorah-Ossion Rd., 62,574 cu.yd. earth and 3.206 cu.yd. loose rock excav., to J. A. Dunkel, Webster City, $26,000. Noted July 21.

Ia., Independence — Buchanan Co., grading, etc. 6.61 mi. U. S. Road 20, Project 239, to Balmat & Son Constr. Co., Clear Lake, $34,174.

Ia., Logan — Harrison Co., to Wright Constr. Co., 1325 Main St., Des Moines, improving Federal Aid Project 214, U. S. Highway 30, 18,333 cu.yd. excav. at $0.85 per cu.yd., 101,473 sq.yd. 6in. concrete $2.21.

Ia., Oelwein—For 2½ in. brick on old concrete resurfacing 24,263 sq.yd. various streets, to Ford Paving Co., Merchants Natl. Bank Bldg., Cedar Rapids, at $1.95 per sq.yd.; 690 sq.yd. various streets to O. G. Herrick, 704 Observatory Bldg., Des Moines, $1.90.

Ia., Tipton—Cedar Co., improving Tipton-Mechanicsville Rd., County Project 3, 108,020 cu.yd. excav. at $0.28 per cu.yd., 33,000 sta.yd. overhaul $0.02, and 1,144 ft. culvert labor $0.25; to M. O. Weaver, Iowa Falls, crushed stone surfacing 19,643 cu.yd. Tipton-Rochester-West Branch Rd., Project P-527. at $2.32.

Minn., Duluth—For 6 in. concrete paving, etc. 10,778 yd. 8th St., to Thornton Bros., 318 Endicott Bldg., St. Paul, $39,769.

South Dakota—State Hy. Comn., Pierre **(F.A.P. means Federal Aid Project)**, to Dowd Bros. & Noonan-Hyde, Watertown, grading, 2.271 mi. F.A.P. 12 and 98, Minnehaha and Lincoln Counties $7,175, 4.977 mi. F.A.P. 195-B, Deuel Co. $13,066, 17.541 mi. F.A.P. 207-B, Minnehaha Co. $40,816, and 16.669 mi. F.A.P. 214-A, Marshall Co. $44,889, to Union Co. (by day labor), 3.688 mi. F.A.P. 153, Union Co., to B. O'Rourke, Aberdeen, 13.053 mi. F.A.P. 173-E, Hand Co. $24,323, to P. G. Thompson, Summit, 12.216 mi. F.A.P. 208-C, Roberts Co. $34,265, and to Western Bridge Co., 748 Peters Trust Bldg., Omaha, Neb., 6.617 mi. F.A.P. 220-B, Custer Co. $89,421; to Tobin & Maloney, Madison, graveling 13.514 mi. F.A.P. 158-B, Clay and Turner Counties $33,100, 20.983 mi. F.A.P. 187-A and E and State Project 117, Gregory Co. $37,796, 17.893 mi. F.A.P. 195-A, Hamlin Co. $16,605, 16.262 mi. F.A.P. 210-A, Hutchinson and Bon Homme Counties $35,325, 12.007 mi. F.A.P. 211-A, Charles Mix Co. $13,976, and resurfacing 15.66 mi. U. S. Highway 14, Hyde and Hand Counties $15,140; to Van & Van, Hull, Ia., 12.998 mi. F.A.P. 188-E, Kingsbury Co., $16,448, 10.776 mi. F.A.P. 191-E, Kingsbury Co. $13,049, 8.015 mi. F.A.P. 197-B, Lincoln Co. $12,124, to W. E. Bartholow & Son, Spencer, 11.97 mi. F.A.P. 188-F, Miner and Lake Counties $16,018, to R. R. Wiley, Summit, 14.027 mi. F.A.P. 171-C, Clark Co. $12,989, 18.215 mi. F.A.P. 191-D, Clark Co., $39,880, also guardrail on F.A.P. 162-D, Haakon and Jackson Counties $2,961; and F.A.P. 180-D, Corson Co. $2,064; to W. R. Larson Constr. Co., Sioux Falls, graveling 15.563 mi. F.A.P. 193-A, Brookings Co. $16,325, 19.04 mi. F.A.P. 193-B, Deuel Co., $30,601, and resurfacing 39.351 mi. U. S. Highway 14 through Brookings Co., $33,-021, to H. Pickus Constr. Co., Aberdeen, 17.608 mi. F.A.P. 199-A, Clark and Codington Counties $34,382, 13.394 mi. F.A.P. 202-A. Turner and Lincoln Counties $12,-741, and 16.51 mi. F.A.P. 225, Clark and Hamlin Counties $21,895, and to Lindekugel & Kolberg, Spencer, 17.107 mi. F.A.P. 204-A, Hutchinson and Turner Counties $19,112. Noted July 21.

S. D., Rapid City—C. I. Leedy, city aud., grading, curbing and concrete paving with mesh reinforcing 63,683 sq.yd. various streets, to Jensen Paving Co., Rapid City, $162,895. Noted July 21.

Mo., Joplin—Concrete paving 8,750 sq.yd. School St., to Independent Constr. Co., Pittsburg, Kan., at $1.72 per sq.yd. Noted July 7.

Mo., St. Joseph — For 6 in. concrete paving 2,873 sq.yd. 18th St. between Grand and Holman Sts., to Whitman Constr. Co., 244½ Francis St. $8,775 and 2.455 sq.yd. 18th St. between Holman and Highly Sts., to Judson Eng. & Constr. Co., 1811 Faraon St. $6,926; also asphaltic concrete paving 12,167 sq.yd. Mitchell Ave., to Land Constr. Co., Ballinger Bldg., $17,013. Grand total $32,714.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Trinidad Asphalt Paving Co., Title Guaranty Bldg., asphaltic concrete paving, etc. 9,060 sq.yd. Leffingwell Ave., $33,135, 2,680 sq.yd. Spring Ave., $13,943, and 1,785 sq.yd. Carlsbad Ave. $9,436; and to Bridges Asphalt Paving Co., 1470 Kentucky Ave., 43,310 sq.yd. Olive St. $239,552. Grand total $296,066. Noted July 21.

Tex., Amarillo—Potter Co. grading 10 mi. roads, to Fuqua & Pillow, Hereford, $45,000, and 6 mi. roads to T. W. Ziegler, Tulia, approximately, $30,000.

Tex., Amarillo—Brick on concrete paving 5th St. from Jackson to railroad tracks, to El Paso Bitulithic Co., Oliver-Eagle Bldg., approximately $75,000.

Tex., San Antonio—Will remove present esplanade and pave with asphalt 5 blocks Bway., $55,000; also widen and pave 3 blocks Nueva St., 60 ft., $104,000, by day labor. E. I. Ewig, city engr.

Okla., Medford — Grading, curbing and concrete paving 21,150 sq.yd. Dist. 2, to Ward-Beekman & Brooks, 1801 East 9th St., Oklahoma City, $66,132. Engrs. est. $68,910.

Okla., Seminole—Grading, curbing and concrete paving 13,400 sq.yd. Dists. 8 and 9, to Ward, Beekman & Brooks, 1801 East 9th St., Oklahoma City. $55,994. Engrs. est $56,000. Noted June 16.

Okla., Snyder—Grading, curbing and concrete paving 7,750 sq.yd. 4th, Kiowa and Comanche Sts., to Highway Constr. Co., Kennedy Bldg., Tulsa, $26,509. Engrs. est $28,227.

Ore., Portland—Grading, concrete paving, etc. 17,050 sq.yd. East line of 33rd St. to North line of Webster St., to Cochran Constr. Co., 108½ South Jersey St., $25,395 Engrs. est. $31,972.

Wash., Ruston—Bitulithic concrete paving 13,120 sq.yd. Main St., et al., to S. A. Moceri, 924 23rd Ave., Seattle $28,000.

Wash., Vancouver—Comrs. Clark Co., concrete paving 75,000 sq.yd. Vancouver-Manor Rd., to Olympic Constr. Co., Seaboard Bldg., Seattle $229,000. Engrs. est $230,000.

California—State Hy. Comn., Sacramento, **(e.e. means engrs. est.)** grading and crushed gravel or stone surfacing approximately 2.3 mi. roadway between Stockton and Cherokee Station, San Joaquin Co., to Irey & Holden, Lodi, $37,005 e.e. $48,961; grading and waterbound macadam surfacing 3 mi. line change at Gaviota Creek Bridge point 2½ mi. north of Gaviota, Santa Barbara Co., to I. Hodson, Santa Barbara, $9,416 e.e. $10,736; asphaltic concrete paving, etc. approximately 9.1 mi. roadway between Lerdo and point 1 mi. north of Famosa, Kern Co., to Force, Currigan & McLeod, Syndicate Bldg., Oakland $191,588 e.e. $196,362, and approximately 9.4 mi. roadway between point 1 mi. north of Famosa and point 1 mi. south of Delano, Kern Co., to Valley Paving & Constr. Co., Visalia $173,122 e.e. $183,662. Grand total $411,131. Noted Aug. 4.

Calif., Atherton—Grading and waterbound macadam paving with oil and rock screenings surface Stockbridge Ave., to F. H. Ritchie, 276 Singletary Ave., San Jose, $25,098.

Calif., El Cerrito — City Trustees, oil macadam and concrete paving, etc., streets in Country Club Terrace, to California Constr. Co., 58 2nd St., San Francisco, $363,182. Noted July p1.

Calif., Long Beach—For 8 in. concrete paving, etc. 4th St. between Alamitos and Junipero Aves., etc., to Sully-Miller Co., 1500-7th St., $56,370.

Calif., Los Angeles—Asphaltic concrete paving, etc., Long Beach Ave. between Washington St. and Slausson Ave., to Griffith Co., Railway Bldg., $194,225. Noted June 9.

Calif., Los Angeles—Curbing, walks and concrete paving, etc., Redcliff St., etc. (Redcliff and Effie St. Impvt. Dist.), to McCray Co., 4482 Worth St., $100,542; also curbing, walks, guttering and National asphaltic concrete paving, etc., Verdun Ave. between La Brea Ave. and Pico Blvd., to E. Schelling, 436½ South Figueroa St., $164,395.

Calif., Los Angeles—Supervs. Los Angeles Co., curbing guttering, walks and 8 in. concrete paving 404,714 sq.ft., also 8 and 10 in. concrete paving 100,262 sq.ft., etc. Mines Ave., to J. and P. Cristich, 309 Douglas Bldg., $221,430. Engrs. est. $244,935.

Calif., Modesto — Concrete paving, etc. Sierra Dr. and Roselawn Ave., etc., to Standard Paving Co., Modesto, $25,465.

Calif., Monrovia—Curbing, guttering and 4 in. oil macadam paving, etc., Evergreen St. and Central Ave., etc., to Davidson **Contg. Co., Monrovia, $39,920.**

Calif., Monterey—To J. L. Connor, P. O. Box 452, improving Foam, Reeside, Drake, **McClellan Sts., etc., 141,600 sq.ft. 6** in. concrete paving at $0.22 per sq.ft., 45,500 sq

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ft. 5 in. $0.21, 37,000 sq.ft. cement walks $0.19, etc., total approximately $59,945.

Calif., Oakland—F. C. Merritt, city clk., to Heafey-Moore & McNair Co., 344 High St., improving East 8th St., etc., 156,821 sq. ft. grading at $0.015 per sq.ft. concrete curbing with steel guard $1.30, 4,544 sq.ft. concrete guttering $0.30, 130,266 sq.ft. 2 in. Warrenite bitulithic on 6 in. concrete surfacing $0.315, and 1,150 lin.ft. 10 in. sewer, etc. $2.90. Noted July 21.

Calif., Redwood City—Grading and 5 in. concrete paving, etc. St. Francis Ave. and Jefferson St., etc., to Stanley Constr. Co., Palo Alto, $61,710. Noted July 21.

Calif., Sacramento — Curbing, guttering, walks and 5 in. asphaltic concrete paving 287,445 sq.ft. Swanston Park-Unit 2, to McGillivray Constr. Co., Capitol Natl. Bank Bldg., $172,029.

Calif., San Diego—Common Council improving N and 16th Sts., to B. Noble, Spreckles Bldg., $86,151. Noted Aug. 4.

Ont., Oshawa—Curbing, guttering and sheet asphalt paving approximately 2 mi. various streets, to Standard Paving Co., Ltd., Central Chambers, Elgin St., Ottawa. Engrs. est. $150,000.

Buildings—Commercial

Proposed Work

Me., Bangor—Y. W. C. A., P. S. Ordway, chn. building com., having sketches made by V. Hodgins, 37 Hammond St., 2 or 3 story and basement, brick, plain foundation. $150,000.

Mass., East Cambridge (mail Boston)—REGISTRY of DEEDS—Middlesex Co., A. Cutting, chn., having plans prepared by C. R. Greco, 11 Beacon St., Boston, brick and steel courthouse unit for registry of deeds. $240,000. Noted May 6.

Mass., Framingham — OFFICE — West Boston Gas Co., 49 Howard St., soon lets contract 3 story, 75 x 145 ft., brick, steel and limestone, Pearl and Union Sts. $150,000. C. M. Baker, 25 Arch St., Boston, archt. Noted July 14.

Mass., Lowell — TEMPLE — Lowell Masonic Assn., C. Bartlett, chn. building com., having revised plans prepared by P. F. Gilbert, 53 Central St., 3 story and basement, 80 x 175 ft., brick and stone, plain foundation, Dutton St. $200,000. Noted Jan. 27.

Mass., Malden — APARTMENT — A. L. Carpenter, 157 Summer St., having plans prepared by A. H. Bowditch, 44 Bromfield St., Boston, 8 story and basement, 8,000 sq.ft. floor space, brick, plain foundation, Summer and Clifton Sts. $200,000.

Mass., Springfield — HOTEL and THEATRE—Poli Realty Co., 26 Church St., New Haven, Conn., having plans prepared by T. Lamb, 644 8th Ave., New York City, 10 story, 100 x 100 ft. hotel, 95 x 160 ft. theatre, brick, steel, stone and marble, Bway. and Pynchon Sts., here. $1,500,000. Noted Jan. 13.

Mass., Waltham (br. Boston)—BANK—Waltham Natl. Bank having plans prepared by H. E. Davidson & Son, 46 Cornhill, Boston, brick, steel and stone bank building. $150,000 or more.

R. I., Providence—FIREHOUSE—Pub. Building Dept., City Hall, plans fire station, Burnside St. $150,000. T. J. Hill Pierce, City Hall, archt.

N. Y., Far Rockaway—APARTMENT HOTEL—Rosoff Terrace Co., 123-71 Rockaway Beach Blvd., Rockaway Park, having plans prepared by M. Courland, 386 5th Ave., New York City, 5 story and basement, 100 x 100 ft., brick and steel, plain foundation, Beach 24th St. and Rockaway Beach Blvd., here. $150,000.

N. Y., New York—PROFESSIONAL—H. Van Rensselear, 40 East 61st St., having preliminary plans prepared by K. Franzheim, 345 Madison Ave., 13 story, brick, steel and stone, concrete foundation, 40-44 East 61st St. $400,000.

N. J., Arcola — THEATRE — Bergen Amusement Park Co., Inc., plans 2 story and basement, brick and steel, plain foundation, here. $300,000. Engineer and architect not selected.

N. J., East Orange — APARTMENT — Church Constr. Co., 800 South 13th St., Newark, having plans prepared by W. Lehman, 972 Broad St., Newark, 8 story and basement, brick and steel, plain foundation, Harrison St. near Central Ave., here. $375,000.

N. J., Elizabeth—APARTMENT—Halsberg & Posnock, c/o L. Kasoff, archt., 164 Market St., Newark, having plans prepared 4 story and basement, brick and steel, plain foundation, Jersey Ave. and Berwick St., here. $150,000.

N. J., Elizabeth — DEPARTMENT STORE — Levy Bros., 80 Broad St., plans 10 story and basement, brick and steel, plain foundation, 80-84 Broad St. $500,000. Engineer and architect not selected.

N. J., Hackensack—HALL of RECORDS—Bd. Freeholders Bergen Co., plans 5 story and basement, brick and steel, plain foundation, on 100 x 200 ft. site, Hudson St. $200,000. Engineer and architect not selected.

N. J., Hillside—APARTMENT—P. J. Haggerty, 185 Market St., Newark, plans 6 story and basement, brick and steel, plain foundation, Maple Ave. $200,000. Engineer and architect not selected.

N. J., Jersey City—HOTEL—Owner, c/o J. F. Jackson, archt., 137 East 45th St., New York City, plans brick and steel, plain foundation, here. $150,000.

N. J., Newark—STORE and OFFICE—F. M. Kern, archt., 665 Broad St., takes bids about Sept. 15, general contract 4 story and basement, 40 x 185 ft., brick and steel, plain foundation, 657-9 Broad St., for C. E. Cameron, $500,000. Lining Store, W. W. Oppenheim, Inc., 657 Broad St., lessee. Noted June 16.

N. J., Passaic—HOTEL—Stein Securities Co., Inc., H. Stein, pres., 201 Lexington Ave., having plans prepared by F. Wentworth, 140 Market St., Paterson, 4 story and basement, brick and steel, plain foundation, Main Ave. and Henry St. $200,000. Noted Aug. 4.

N. J., Red Bank—HOTEL—Red Bank Hotel Co., W. H. Smock, pres., plans 9 story hotel, Riverside Ave. $600,000.

N. J., Union City — APARTMENT — J. Venturo, 678 Johnson Pl., West New York, having plans prepared by A. DePaola, 106 18th St., West New York, 5 story and basement, 50 x 100 ft., brick and steel, plain foundation, Palisade Ave. and 13th St. $175,000.

N. J., Westfield—J. FF. Jackson, archt., 137 East 45th St., New York City, soon takes bids 3 story and basement, brick and steel, plain foundation, Ferris Pl. and Clark St., here, for Y. M. C. A., 116 Elm St. $300,000.

Pa., Phila. — APARTMENT — Garden Homes Constr. Co., North Amer. Bldg., plans 4 story and basement, 74 x 185 ft., rein.-con., brick and steel, plain foundation, Lindley and 13th Sts. $400,000. Private plans.

Pa., Phila. — THEATRE—Hodgens & Hill., archts., 130 South 15th St., 1 story, balcony and basement, 108 x 224 ft., rein.-con., brick and steel, plain foundation, 8th and South Cts., for Rexy Theatre Co., c/o architect. Former bids rejected. Noted June 30.

Miss., Jackson — GARAGE — Robinson Bros. Motor Co. having plans prepared by E. J. Hull, archt. and engr., Merchants Natl. Bank Bldg., 2 story and basement, 94 x 152 ft., rein.-con., Amite and McQuade Sts.

Tenn., Chattanooga — GARAGE — Broad Street Co., c/o C. T. Jones, archt., James Bldg., having plans prepared 4 story and basement, 50 x 100 ft., rein.-con. garage. $150,000.

Tenn., Knoxville — THEATRE, STORE and OFFICE — Tennessee Enterprises, Inc. having plans prepared by Graven & Mayger, 180 North Michigan Ave., Chicago, 3 story, brick and terra cotta theatre, store and office building. $600,000.

O., Ashland—COURT HOUSE—Ashland plans election $250,000-$300,000 bonds, court house.

O., Cleveland—APARTMENT—Berkner Realty Co., c/o G. J. Paul, Fidelity Bldg., having preliminary plans prepared by G. Ebeling, 737 Prospect Ave., 12 story and basement, brick, steel and concrete, Euclid Ave. near East 40th St. $1,500,000.

O., East Cleveland (br. Cleveland) — APARTMENT — J. Noft, 13924 Coit Rd., Cleveland, had plans prepared by W. Markowitz, 8902 Kempton Ave., Cleveland, 3 story and basement, 89 x 146 ft., brick, 1520 Holyoke Ave., here. $150,000.

O., Fostoria—BANK and MERCANTILE—Union Natl. Bank, Tiffin, plans 7 story and basement, brick, steel and concrete, Main and Tiffin Sts., here. $500,000.

Mich., Birmingham—CITY HALL—Village, H. E. Lawler, clk., having plans prepared by Burrowes & Eurich, archts. and engrs., 415 Brainard St., Detroit, 2 or 3 story and basement, brick, steel and rein.-con., plain foundation, Woodward Ave. To exceed $150,000.

Mich., Detroit — APARTMENT — Owner, c/o T. C. Hughes, archt., 2615 Joy Rd., having plans prepared 3 story and basement, brick, steel and stone, plain foundation, Northwest Section. $150,000.

Mich., Detroit — OFFICE — Bd. Water Comrs., Dept. Water Supply, 176 East Jefferson Ave., having plans prepared by L. Kamper, Kamper Bldg., Cass Ave., 6 story and basement, 72 x 150 ft., rein.-con., brick and steel, plain foundation, Clinton and Raynor Sts. $1,000 000. Noted Dec. 30.

Mich., Grosse Pointe Farms (mail Grosse Pointe) — HOSPITAL — Mutual Aid Neighborhood Club, 355 Lincoln Rd., had plans prepared by Stevens & Lee, 45 Newberry St., Boston, Mass., 4 story and basement, brick, steel and rein.-con., plain foundation, Grosse Pointe Blvd. $300,000.

Ill., Chicago—HOTEL—Syndicate, c/o Huszagh & Hill, archts., 6 North Michigan Ave., having plans prepared 9 story and basement, rein.-con., brick and terra cotta, Bway. and Sunnyside Ave. $1,000,000.

Ill., Chicago—OFFICE and STORE—A. W. Dickinson, 4040 La Porte Ave., having plans prepared by C. W. Lampe & Co., 155 North Clark St., 5 story and basement, 75 x 75 ft., brick and Bedford stone, Milwaukee Ave. and Irving Park Blvd. $200,000.

Ill., Chicago — OFFICE and STORE — Syndicate, c/o P. B. Maher, archt., 157 East Erie St., having sketches made 24 story and basement, 46 x 100 ft., Michigan Ave. and Ontario St. $1,250,000.

Ill., Chicago—OFFICE and STORE—J. Binga, 3452 South State St., having sketches made by J. Scheitler, 605 North Michigan Ave., 5 story and basement, 50 x 125 ft., rein.-con., brick and stone, 35th and State Sts. $400,000.

Ill., Mattoon—OFFICE—Owner, c/o Berger & Kelley, archts., Lincoln Bldg., Champaign, postponed bids to have been received July 31, 6 story and basement, 60 x 100 ft., rein.-con., brick and stone, here. $170,000. Noted July 14.

Wis., Milwaukee—GARAGE and SALESROOM—J. T. Ellison, 528 Summit Ave., having plans prepared by Rosman & Wierdsma, 490 Bway., 1 story, 375 x 450 ft., steel, brick and artificial stone, Wisconsin Ave.

Kan., Kinsley—COURTHOUSE—Edward Co. having preliminary plans prepared 3 story, rein.-con., brick and stone courthouse. $150,000.

Kan., Rosedale—WARD—University of Kansas, School of Medicine, c/o H. E. Shrock, bus. mgr., takes bids about Aug. 25, 5 story and basement, 47 x 87 ft., rein.-con., brick and stone ward building. $200,000. C. D. Cuthbert State House, Topeka, archt. Noted April 21.

Te .. Amarillo—HOSPITAL—Wyatt C. Hedrick, archt., 1st Natl. Bldg., Ft. Worth, soon lets contract 5 story and basement, 100 x 150 ft., rein.-con. and brick, plain foundation, North Polk St., for St. Anthony's Sanatorium. $500,000.

Tex., Brownsville—THEATRE—L. Dent and associates, Dallas Country Club, Dallas, plans 3 story and part basement, 140 x 150 ft. rein.-con. and brick, plain foundation, here. $300,000. Private plans.

Tex., Corpus Christi—HOTEL—Corpus Christi Hotel Co. having plans prepared by Callaway & Nethercot, 11 story, concrete, hotel, $650,000.

Tex., Dallas — MEDICAL — Jefferson & Langs, c/o H. W. Wells, 2519 Oak Lawn, having plans prepared by Flint & Broad, 606 Melba Bldg. 8 story and basement, 125 x 125 ft., 1st floor, and 45 x 110 ft. above, brick, stone and rein.-con. $500,000.

Tex., Marshall—HOSPITAL—Texas & Pacific R.R. Co., E. F. Mitchell, ch. engr., Dallas, having plans prepared by R. P. DeWitt, 1229 Kirby Bldg., Dallas, 2 story and basement, 40 x 186 ft. hospital.

Tex., San Antonio — OFFICE — Smith Bros., c/o J. W. Young; judge, Plaza Hotel, soon takes bids 30 story and basement, rein.-con. and brick, plain foundation, St. Marys and Villita Sts. $2,000,000. A. B. and R. M. Ayres, 626 Bedell Bldg., archts.

Tex., Welasco—HOTEL—P. G. Silber & Co., archts., Bedell Bldg., San Antonio, soon take bids 72 room, concrete tile and stucco, here, for Welasco Hotel Co., c/o Chamber of Commerce. $500,000.

Tex., Wellington—COURTHOUSE—R. H. Templeton, judge Collingsworth Co. plans 3 story, courthouse, $180,000. Engineer and architect not announced.

Tex., Wichita Falls — OFFICE — W. Wyatt, Interest, plans 8 story concrete office. $400,000.

Okla., Chickasha—COURT HOUSE—Grady Co. having preliminary plans prepared, 3 story and basement, rein.-con. and brick, plain foundation, Main St. $175,000. A. Little, co. clk. Engineer and architect not selected.

Okla., Kingfisher—COURT HOUSE—Kingfisher Co. having preliminary plans prepared 3 story and basement, brick, Main St. $175,000. A. Steele, co. engr. Architect not selected.

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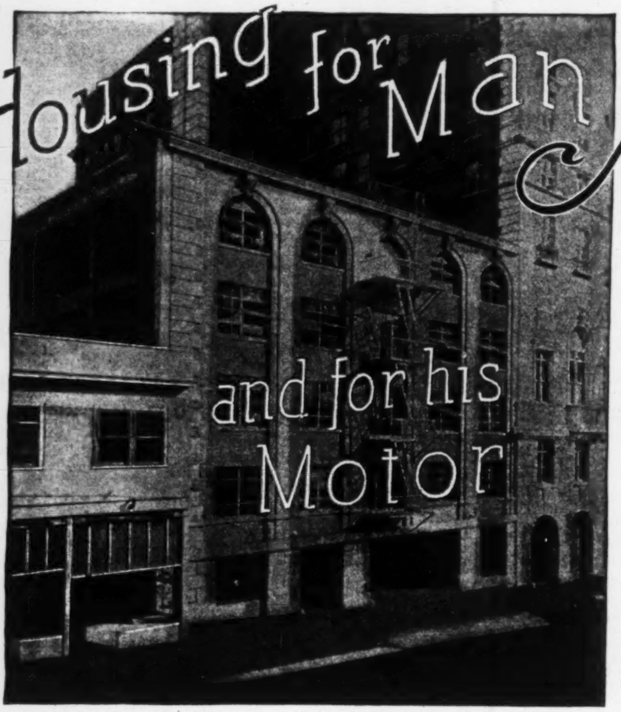
AMERICA NEEDS MORE GARAGES IN HER CITIES



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Buildings—Commercial (Continued)

Okla., Wagoner — COURT HOUSE — Wagoner Co. having preliminary plans prepared 3 story and basement court house, Cherokee St. $175,000. A. Harrill, co. clk. Engineer and architect not selected.

Colo., Pueblo — APARTMENT — A. M. Nassif. 3rd St. and Santa Fe Ave., having plans prepared by J. M. Gile, Masonic Bldg., 3 story, 75 x 150 ft., rein.-con. and timber main unit, plain foundation. Contract for 1st 2 units, each 2 story and basement, to W. B. Rilinger, 1709 Berkeley Ave., $35,000. Total $150,000.

Calif., Culver City—APARTMENT—H. K. Boone, archt., Day Bldg., preparing plans, 4 story and basement, brick apartment. $150,000. Owner's name withheld.

Calif., Culver City—STAGE—Cecil De Mille Studios, plans to rebuild stage, Washington Blvd., recently destroyed by fire. $150,000. Austin Co., 777 East Washington St., Los Angeles, archt.

Calif., Los Angeles—APARTMENT—L. B. Mayer & H. Rapf, c/o Goldwyn-Mayer Picture Corp., having preliminary plans prepared by Walker & Eisen, Western Pacific Bldg., 13 story and basement, 135 x 185 ft., rein.-con., Wilshire and Irolo Sts. $1,500,000.

Calif., Los Angeles — DEPARTMENT STORE—Bway. Dept. Store, Bway, having preliminary plans prepared by Parkinson & Parkinson, Title Insurance Bldg., 11 story and basement, rein.-con. and steel addition. $750,000.

Calif., Los Angeles—HOTEL and APARTMENT—R. A. Hill, archt., 301 Chester Williams Bldg., preparing preliminary plans 8 story and basement 125 x 150 ft., rein.-con., terra cotta, stone and brick, 1025 South Westlake Ave. $1,000,000. Owner's name withheld.

Calif., Long Beach—HOTEL—L. A. Baker, having plans prepared by Morgan, Wells & Clements, et al., Van Nuys Bldg., Los Angeles, class "A" hotel. $1,000,000 or more.

Calif., Los Angeles—HOTEL—C. L. Hill, archt., 2690 North Beachwood Dr., preparing plans 2 and 3 story, 270 x 300 ft., brick and tile, Roosevelt Highway at Dana Point. $350,000 . Owner's name withheld.

Calif., Los Angeles—OFFICE and STORE —Professional Building Co., 1052 West 6th St., having preliminary plans prepared, 8 story and basement, Central Ave. $250,000 or more.

Calif., Los Angeles — STORE, OFFICE and WAREHOUSE—F. E. Barton, archt., Crocker Bldg., San Francisco, soon takes bids 8 story and basement, 100 x 100 ft., rein.-con., Pico Blvd., for Bekins Fireproof Storage Co., 1335 South Figueroa St., here. $250,000. P. E. Jeffers, 810 West 6th St., engr. Noted July 23.

Calif., Palo Alto—OFFICE and POST-OFFICE—Hare, Brewster & Clark, 130 University Ave., having plans prepared by B. M. Clark, 310 University Ave., 4 story and basement, concrete, Ramona St., $250,000.

Calif., Pasadena—APARTMENT—R. A. MacDonald, Pacific South West Bank Bldg., having preliminary plans prepared by R. H. Ainsworth, 1800 Loma Vista, brick, California St. $150,000.

Calif., Sacramento — LODGE — Eastern Star Lodge plans 3 story brick, and tile, North K St. $150,000. Engineer and architect not selected.

Calif., San Francisco—CLUB—Olympic Club, Post and Mason Sts., having revised preliminary plans prepared by J. Baur, Bakewell & Brown, 251 Kearny St., 17 story and basement, brick and steel addition. $2,000,000. Noted Apr. 15.

Ont., Toronto — APARTMENT — R. C. Bustard, 31 Heath St. W., had plans prepared by H. G. Duerr, Lumsden Bldg., 3 story and basement, 102 x 167 ft., brick, steel, cut stone, tile and rein.-con., plain foundation, Huron St. and Lowther Ave. $300,000.

Ont., Toronto—APARTMENT HOTEL—R. W. C. Godson, 14 King St. E., had plans prepared by E. V. Stokes, 81 Victoria St., 15 story and basement, brick, steel and rein.-con., plain foundation, Bloor and St. George Sts. $2,000,000.

Ont., Toronto — OFFICES — Star Publishing Co., 18 King St. W., having plans prepared by Chapman & Oxley, Northern Ontario Bldg., 10 or 12 story and basement, brick, steel and rein-con., plain foundation, King St. W. $800,000. Noted June 23.

Bids Desired

Mass., Brookline (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Greenfield—STORE and OFFICE—H. Cohn, Madison Circle, taking bids 2 story and basement, 75 x 110 ft., brick, plain foundation, Main St. $150,000. F. D. Avery, 278 Main St., Springfield, archt.

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., Willard—HOSPITAL—Sept. 14, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Albany, alteration work, incl. exit facilities and fire stops, etc. at Willard State Hospital, here; adv. E. N.-R. Aug. 25.

N. Y., Yonkers—WAREHOUSE—Feuers Warehouse & Trucking Co., 63 Dock St., New York City, taking bids general contract 4 story (ultimately 7 story), 92 x 100 ft., rein.-con., concrete foundation, Ludlow and Bridge Sts., here. $150,000. Lewis & Leonard, 51 East 42nd St., New York City, archts. Noted June 9.

N. J., Elizabeth—BANK—Oakley & Son, archts., 1259 Clinton Pl., taking bids general contract 1 story and basement, approximately 75 x 100 ft., brick and steel, plain foundation, 3rd and East Jersey Sts., for Downtown Trust Co., 113 Broad St. $150,000. Noted Aug. 4.

N. J., Glassboro—DORMITORIES—Sept. 7, by Guilbert & Betelle, archts., Chamber of Commerce, Newark, 3 story and basement, 45 x 167 ft., brick and steel, plain foundation, here, for State Normal School.

N. J., Hackensack — APARTMENT — Prospect Ave. Realty Co., Inc., 15 Exchange Pl., Jersey City, taking sub-bids 5 story and basement, 150 x 150 ft., brick and steel, plain foundation, Prospect Ave. and Passaic St. $500,000. Flagg & Stades, 665 Newark Ave., Jersey City, archts. Noted July 21.

N. J., Hoboken—DEPARTMENT STORE —H. Holmes, archt., c/o S. S. Kresge Co. (owner), Kresge Bldg., Detroit, Mich., taking bids 3 story and basement, 50 x 100 ft., brick and steel, plain foundation, 226-228 Washington St., here. $150,000. Noted May 28.

N. J., Kearny — APARTMENTS — See "Contracts Awarded."

N. J., Montclair—STORE, LODGE and DANCE HALL—W. Grigsby, 22 Orange Rd., taking new bids general contract 3 story and basement, 50 x 100 ft., brick and steel, plain foundation, Bloomfield Ave. $150,000. Former bids rejected. D. S. Van Antwerp, 14 South Park St., archts. Noted July 21.

N. J., North Caldwell (mail Caldwell)—CELL HOUSE and PENITENTIARY—Bd. Freeholders Essex Co., Court House, Newark, taking bids altering and constructing 3 story and basement, 60 x 250 ft., rein.-con., brick and steel, plain foundation, here. $300,000. C. Williard Wands, 275 Bloomfield Ave., Caldwell, archt.

N. J., Palisades Park—APARTMENT—See "Contracts Awarded."

N. J., Paterson—SHOW ROOM and SERVICE STATION—A. E. Sleight, archt., Romaine Bldg., taking bids 1 story, 100 x 300 ft., brick and rein.-con. plain foundation, Market and East 36th Sts., for J. A. McCrane Motors Co., 638 Market St. $150,000. Noted Aug. 11.

N. J., Totowa (mail Paterson)—DORMITORIES—Aug. 29 (extended date), by C. N. Leathem, Jr., state archt., State Bldg., Trenton, 4 dormitories, hospital and employees buildings, etc. at training school for Feeble Minded Females, here. $450,000. Noted July 28.

Ga., Atlanta — MASONIC TEMPLE — Sept. 20, by W. C. Spiker & Co., engrs., Forsyth Bldg., 4 story, 193 x 363 ft. temple, Kimball and Peachtree Sts., for Yaarab Temple, A.A.O., N.M.S., 30 West Harris St. $1,000,000. M. Alger & Alger, Walton Bldg., archts.

O., Cincinnati—OFFICE—Sept. 7, by J. G. Steinkamp & Bro., 1212 Mercantile Library, 12 story and basement, 82½ x 100 ft., rein.-con. and brick, plain foundation, Central Parkway, for Amer. Druggists Fire Insurance Co., 1004 Mercantile Library. $600,000.

O., Toledo—HOSPITAL—Schmidt, Garden & Erickson, archts., 104 South Michigan Ave., taking bids 9 story, 94 x 250 ft. hospital, 6 story, 63 x 161 ft. nurses' home, and 4 story, 93 x 176 ft. power house, etc., Ottawa and Jermain Parks, Kenwood Ave. and North Grove Blvd.

Mich., Detroit—WAREHOUSE—A. Kahn, archt., 1000 Marquette Bldg., taking bids 3 story, 130 x 320 ft., rein.-con., plain foundation, East Grand Blvd., for Packard Motor Car Co., East Grand Blvd.

Mich., Highland Park (br. Detroit)—OFFICE and STORE—A. Kahn, owner and archt., 1000 Marquette Bldg., Detroit, taking bids and opens same about Aug. 27, 6 story and basement, 87 x 120 ft., rein.-con. and brick, plain foundation, Glendale St. and Woodward Ave., here $200,000. Noted Feb. 3.

Ill., Chicago—APARTMENT—Huszagh & Hill, archts., 6 North Michigan Ave., taking bids 17 story, rein.-con. and brick, on 75 x 240 ft. site, Sheridan Rd. near Ardmore St., for E. Reid, 4753 Bway. $1,000,000.

Wis., Milwaukee—PUBLIC SAFETY—Sept. 8, by Dept. Pub. Wks., R. E. Stoelting, comr., 6 story and basement, 135 x 235 ft., brick and steel, 8th, 9th, State and Cedar Sts. $1,200,000. A. R. Ross, 1 Park Ave., New York, N. Y., archt. M. Cutler, 1019-36th St., Milwaukee, engr.

Mo., Kansas City — APARTMENT HOTEL—See "Contracts Awarded."

Tex., Port Arthur—MASONIC TEMPLE —Sept. 8, by A. F. & A. M. Lodge, c/o C. Stevenson chn. building com., 3 story and roof garden, 100 x 110 ft., rein.-con. and brick, plain foundation. $150,000. W. B. Ittner, 911 Locust St., St. Louis, Mo., archt.

Calif., Berkeley—MEMORIAL—Sept. 12, by G. Gross, clk. Alameda Co., 2 story and basement, concrete, terra cotta and artificial stone, Center St. $150,000. H. H. Meyers, Kohl Bldg., San Francisco, archt. Noted Aug. 11.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Fresno—THEATRE, STORE and OFFICE—B. M. Pretica, archt., Pantages Theatre Bldg., Los Angeles, taking bids steel and rein.-con., Fulton and Tuolumne Sts., here, for A. Pantages, Pantages Theatre Bldg., San Francisco. $150,000 or more. Noted June 10.

Calif., Los Angeles—BANK and OFFICE —Bennett & Haskell, archts., Security Bldg., taking bids 9 story and basement, 200 x 230 ft., rein.-con. and steel, Madison Ave. and Colorado St., for First Trust & Saving Bank, 85 East Colorado St., and First Natl. Bank, 305 East Colorado St., Pasadena. $1,000,000.

Calif., Norwalk—HOSPITAL—Sept. 13, by G. B. McDougall, state archt., Forum Bldg., Sacramento, two 2 story, rein.-con. hospital, here, for State Building Comn., Sacramento. $165,000.

Calif., San Clemente (mail Tiburn)—CLUB—V. Westbrook, archt., San Clemente, taking bids 1 story, 27 x 158 ft., club, incl. 45 x 105 ft. swimming tank, filtration system, etc., for O. Hanson, Sun Finance Bldg., Los Angeles. Noted Aug. 4.

Calif., Ventura — THEATRE and OFFICE—L. A. Smith, archt., Film Exch. Bldg., Los Angeles, taking bids 3 story, rein.-con., Main and Chesntut Sts., here, for Amer. Amusement Co., c/o architect. Noted July 14.

Ont., Toronto — APARTMENT — J. T. Moore, archt., 2461 Queen St. E., taking bids 3 story and basement, brick, steel and rein.-con., plain foundation, Yonge St. and Soudan Ave., for M. Fenwick, 2155 Yonge St. $150,000.

Contracts Awarded

Mass., Brookline (br. Boston)—APARTMENT—H. H. Johnson, 148 Spring St., Medford, will build 4 story and basement, brick and stone, plain foundation, 588-592 Waashington St. $150,000. Work will be done by separate contracts. H. W. Gore, 31 Milk St., Boston, archt.

Mass., Cambridge (br. Boston) — INFIRMARY—Mass. Institute of Technology, H. J. Carlston, chn. building com., 4 story and basement, brick, plain foundation, to J. Rugo, 80 Boylston St., Boston. Noted July 21.

Conn., East Haven (br. New Haven)—TOWN HALL—Town, 2 story, 106 x 126 ft., brick, steel, stone and concrete, to H. Wales Lines Co., State St., Meriden, approximately $150,000. Noted July 28.

R. I., East Providence (br. Providence) —STORE and OFFICE—R. Tortolani, 20 Bainbridge Ave., Providence, 4 story and basement, brick and stone, plain foundation, Waterman St. and Taunton Ave., here, to S. Montanaro, 174 4th St. Archts. est. $150,000. Noted Aug. 4.

Mass., Fall River — THEATRE and STORE—L. E. Savard, 217 Granite Rd., 1 and 2 story and basement, brick and steel, plain foundation, Pleasant St., to L. Bolduc, 579 Middle St., $150,000. Noted July 6.

Mass., Winchester — HOSPITAL — Winchester Hospital, B. L. Norton, supt., 41 Highland Ave., altering and constructing 3 story and basement, brick and steel addition, plain foundation, to Arlington Constr. Co., 313 Bway., Arlington. Noted May 12.

Conn., Middletown—Y. M. C. A., E. S. Hubbell, chn. building comn., 2 story and basement, 115 x 145 ft., rein.-con., brick and steel, incl. gymnasium and swimming pool, Union and Crescent Sts., to D. O'Brien & Sons, 118 Asylum St., Hartford, $301,976. Noted July 7.

N. Y., Flushing — THEATRE — B. F. Keith Theatres, Inc., 1564 Bway., New York City, general contract 158 x 160 ft. irregular shaped, brick and steel, concrete foundation, Northern Blvd. and Farrington St., to M. Shapiro & Sons, Inc., 1560 Bway., New York City. Archts. est. $2,000,000. Noted Apr. 8.

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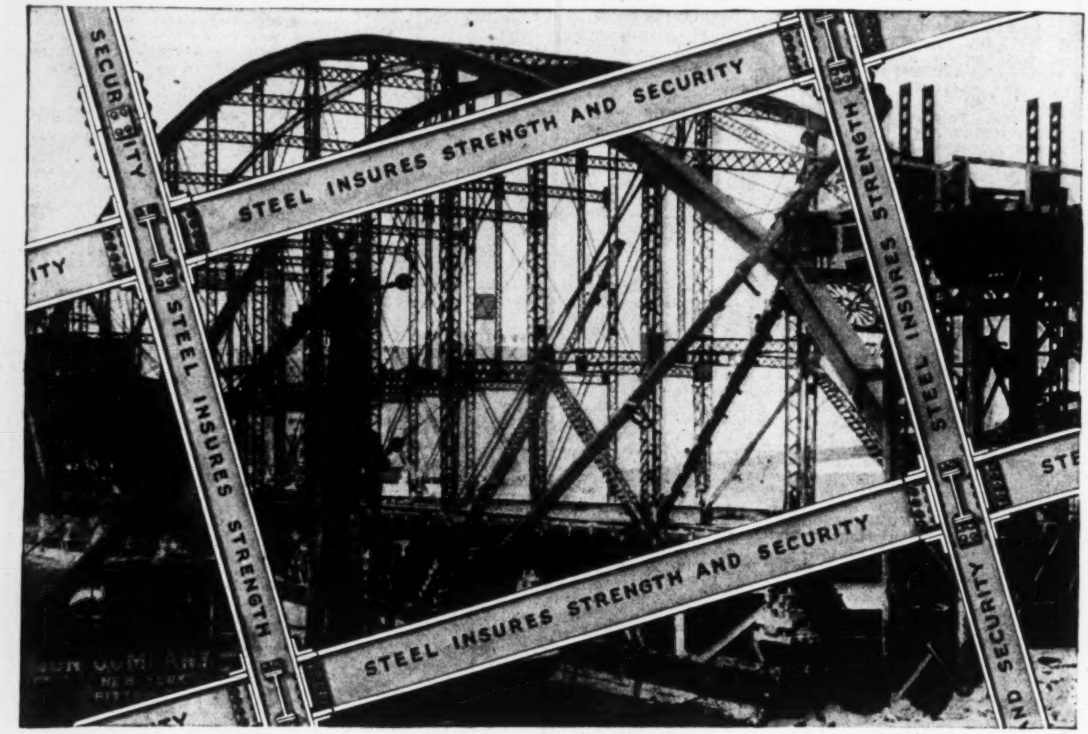
Steel Insures Strength and Security


STEEL INSURES STRENGTH AND SECURITY
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STEEL INSURES STRENGTH
AND SECURITY
STEEL INSURES STRENGTH AND SECURITY

Photo courtesy "Construction Methods"

Removal of the south span of the Sixth Street Bridge, Pittsburgh, Pa. The span has been lowered and placed on pontoons ready for floating down-stream. The removal of this 440-foot truss span intact is an amazing tribute to the flexibility of structural steel.

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Buildings—Commercial (Continued)

N. Y., New York—APARTMENT—Minhill Building Corp., c/o Franklin, Bates & Heindsmann, archts., 2526 Webster Ave., will build 6 story, 52 x 102 ft., brick and steel, plain foundation, Intervale Ave. and 167th St. $180,000. Work will be done by separate contracts.

N. Y., New York—APARTMENT—Sors Constr. Corp., c/o R. C. P. Boehler, archt., 116 West 39th St., will build 6 story, 86 x 122 ft., brick and steel, plain foundation, 169th St. near Shakespeare Ave. $200,000. Work will be done by separate contracts.

N. Y., New York — APPRAISERS STORES—L. Adler, 38 West 32nd St., 12 story and basement, 200 x 400 ft., concrete, steel, brick and stone, concrete pile foundation, Hudson, Varick, West Houston and King Sts., to Shroder & Koppel, Inc., 420 Lexington Ave. Archts. est. $6,000,000. U. S. Government, lessee.

N. Y., New York — GARAGE — Ortcar Realty Co., 227 West 51st St., 6 story, 100 x 200 ft., rein.-con. garage, concrete pile foundation, 211 West 61st St., to Turner Constr. Co., 420 Lexington Ave. Archts. est. $300,000.

N. J., Bogota (br. Hackensack) — THEATRE and STORE — Queen Ann Theatre Corp., c/o W. E. Lehman, archt., 972 Broad St., Newark, general contract 21 story and basement, brick and steel, plain foundation, Queen Ann Rd. and Cypress Ave., here, to Oschwald Costr. Co., 854 Clinton Ave., Newark. Archts. est. $500,000. Former contract rescinded. Noted Aug. 4.

N. J., Elizabeth—HOTEL and STORE—Elizabeth Chamber of Commerce Hotel Co., 215 Broad St., general contract 9 story and basement, 67 x 107 x 215 ft., brick and steel, plain foundation, North Broad St., to Deakman Wells Co., 921 Bergen Ave., Jersey City. Archts. est. $1,000,000.

N. J., Elizabeth—J. F. Jackson, archt., 137 East 45th St., New York City, general contract 3 story, brick and steel, Madison St., to W. L. Crow Constr. Co., 101 Park Ave., New York City, for Y. M. C. A., 1164 East Jersey St. Archts. est. $350,000. Noted July 28.

N. J., Haddonfield—TOWN HALL—Boro Comn., general contract 2 story, limestone, to G. W. Shaner & Sons, Palmyra, $134,695.

N. J., Iselin—THEATRE and STORE—E. Wierzbicki, archt., 175 Smith St., Perth Amboy, general contract 2 story and basement, 60 x 105 ft., brick and steel, plain foundation, here, to S. Raciti, 64 Baldwin St., New Brunswick. Archts. est. $150,000. Noted May 28.

N. J. Kearny—APARTMENTS—K. F. Sherwood, 808 Chestnut Ave., Arlington, will build three 3 story and basement, 50 x 80 ft., brick and steel, plain foundations, 6-14 Woodland Ave. $150,000. Work will be done by separate contracts. Kelly & Cowan, 921 Bergen Ave., Jersey City, archts Noted Aug. 11.

N. J., Palisades Park—APARTMENT—A. Pumo Co., 765 Hudson Ave., West New York, will build 5 story and basement, brick and steel, plain foundation, Columbia Ave. and Edgewood Lane. $150,000. Work will be done by separate contracts. G. W. Dexter, Ft. Lee Trust Bldg., Ft. Lee, archt. Noted Aug. 11.

N. J., West New York (Ind. br. Weehawken) — SCHOOL — Bd. Educ., Town Hall, 16th St., general contract 1 story, 175 x 230 ft., brick and steel, Park Ave. between 11th and 12th Sts., to Auf der Heide Constr. Co., 443 16th St. Archts. est. $150,000. Noted July 21.

Pa., Lancaster—PASSENGER STATION—Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad St. Sta., Phila., 2 story and basement, 113 x 163 ft., rein.-con., brick, steel, limestone and granite, plain foundation, McGovern Ave. and Christian St., here, to D. S. Warfield, Lancaster. Noted July 14.

Pa., Phila.—LOFT—Manufacturers Exchange Realty Co., c/o W. Goldstein, 1415 Locust St., 16 story and basement, 96 x 161 ft., rein.-con., brick and architectural terra cotta, plain foundation, 232-48 North 11th St., to Nelson-Pedley Co., Corn Exch. Bldg. Archts. est. $1,500,000. Noted July 14.

Va., Newport News—HOTEL—Peebles & Ferguson, archts., Norfolk, 7 story and basement, 50 x 82 ft., rein.-con., brick, steel, stone and terra cotta addition, to Hotel Warwick, plain foundation, here, to Virginia Eng. Co., for Hotel Warwick Co., c/o architects. $300,000. Noted May 19.

La., New Orleans—TEMPLE—E. Weil, Inc., archts., Whitney Central Bldg., rein.-con. and marble, to C. Gilbert, Bolter Bldg., for Temple Sinai Congregation, St. Charles St. $219,000.

O., Columbus—STORAGE GARAGE—Col. Merchants Garage Co., 98 North Front St., W. T. Thompson, pres., 6 story and basement, 125 x 187½ ft., brick, steel and rein.-con., North Front St., to Forman & Putnam, Marietta, $335,000.

Ind., Hammond—APARTMENT—A. C. Berry, Ruff Bldg., 3 story and basement, brick and steel, Ruth St. to Gorman Construction Co., 38 South Dearborn St., Chicago, Ill. $480,000.

Mich., Detroit—FURNITURE WAREHOUSE—Leonard Storage Co., 1800 East Jefferson Ave., 9 story, 40 x 100 ft., brick and rein.-con., plain foundation, Grand River and Plymouth Rd., to C. S. Berry Co., 2631 Woodward Ave. Archts. est. $150,000.

Mich., Detroit—GARAGE and OFFICE—First Natl. Co., 1st Natl. Bank, 19 story and basement, 129 x 143 x 173 ft., brick, steel and rein.-con., plain foundation, Congress St., to Otto Misch Co., 159 East Columbia St.

Ill., Chicago—APARTMENT—Huszagh & Hill, archts., 6 North Michigan Ave., masonry and carpentry contract 5 story, 50 x 150 ft., brick, 6322 Kenmore Ave., to H. B. Ryan Co., 500 North Dearborn St., for D. Vater, 6322 Kenmore Ave. Archts. est. $200,000. Noted Apr. 7.

Ill., Chicago — APARTMENT — R. De Goyler & Co., archts., 307 North Michigan Ave., masonry and concrete contract 13 story and basement, 100 x 200 ft. apartment, 7321 South Shore Dr., to Linn Constr. Co., 6400 South State St., and plumbing, to E. B. Kaiser, 625 Webster Ave., for W. C. Bannerman & Co., 77 West Washington St. Archts. est. $1,000,000. Noted June 30.

Ill., Chester—HOSPITAL—Chester State Hospital, c/o Dept. Purchase & Constr., Springfield, L. Small, dir., general contract 3 story, rein.-con. steel and stone, to J. Robinson, Anna, $160,000. Noted May 19.

Ill., East St. Louis—Y. M. C. A. Assn., 317 Missouri Ave., 3 story and basement, 150 x 225 ft., rein.-con., brick and terra cotta, 9th St. and Ohio Ave., to F. N. Wilson, Granite City. Archts. est. $200,000. Noted July 14.

Mo., Kansas City — APARTMENT HOTEL — Fisher Building Co., Commerce Bldg., will build 10 story and basement, 80 x 115 ft., rein.-con. and brick, Armour St. and Gillham Rd., by day labor. $150,000. N. E. Peters, Orear Leslie Bldg., archt.

Mo., St. Louis — APARTMENT and STORE — S. W. Perummle, 3650 South Grand Blvd., 3 story and basement, 56 x 140 ft., rein.-con., brick and terra cotta, Grand Blvd. and Tholozan St., to Harrison-Kopman Constr. Co., 592 Arcade Bldg.

Mo., St. Louis — CIVIL COURTS — Bd. Pub. Serv., 208 City Hall, general contract (except foundation and steel, etc.), 24 story and basement, 135 x 162 ft., concrete, stone, steel and terra cotta, 11th St. between Chestnut and Market Sts., to Seldon-Breck Constr. Co., Fullerton Bldg., $2,656,203. Noted July 21.

Ark., Lonoke—COURTHOUSE—Lonoke Co., 3 story, 62 x 215 ft., rein.-con., brick and stone, to Herman & M'Cain Constr. Co., Reigler Bldg., Little Rock, $199,500. Noted Aug. 4.

Okla., Enid—THEATRE—Griffith Amusement Co., 306 West Reno St., 2 story and basement, 75 x 140 ft., rein.-con. and brick, plain foundation, 3rd St., to G. M. Buxton, Enid, $150,000.

Okla., Wilburton — DORMITORY —State Board of Affairs, Capitol Bldg., Oklahoma City, 3 story and basement, 88 x 172 ft., rein.-con. and brick, plain foundation, on campus, here, to W. L. Scott, Sulphur, for Oklahoma School of Mines. $170,200. Archts. est. $190,000.

Calif., Fresno—LODGE—B. P. O. E., Fresno Lodge 439, 3 story and basement, rein.-con., Tulare and L Sts., to E. H. Mellencamp, 723 Princeton St., approximately $2,235,000. Noted May 26.

Calif., Hollywood—CLUB—P. R. Williams, archt., 3839 Wilshire Blvd., Los Angeles, 4 story, 110 x 150 ft., rein.-con. addition. Selma and Hudson Aves., here, to Clinton Constr. Co., Stock Exch. Bldg., Los Angeles, for Y.M.C.A. $168,550. Noted July 21.

Calif., Los Angeles — APARTMENT — B. M. Edelman, 403 Wilshire Arts Bldg., will build 5 story and basement, brick, New Hampshire Blvd., by day labor. $175,000.

Calif., Los Angeles — APARTMENT — Lazar & Klitnick, 3817 West 6th St., will build 4 story and basement, 60 x 150 ft., brick, South Wilton Pl., by day labor. $150,000.

Calif., Los Angeles—APARTMENT—A. J. Kane, 5505 Santa Monica Blvd., will build 4 story and basement, 50 x 160 ft., brick, Sierra Vista Ave., by day labor and sub-contracts. $150,000.

Calif., Los Angeles—APARTMENTS—Lolita Holding Corp., two 4 story and basement, one 65 x 125 ft., Van Ness and Bronson Aves., and other 68 x 125 ft., Franklin and Van Ness Aves., both brick, to Shave Constr. Co., Subway Terminal Bldg., $165,000 and $160,000 respectively.

Calif., Los Angeles — APARTMENT HOTEL—W. J. Wright, 3191 West 7th St., 5 story and basement, 127 x 185 ft., brick, North Wilcox Ave., to S. F. Bard Co., Chamber of Commerce Bldg., approximately $375,000.

Calif., Los Angeles—APARTMENT—Lolita Holding Co., 875 Subway Terminal Bldg., 4 story and basement, 68 x 123 ft., brick, Franklin and Van Nuys Aves., to S. H. Shave Constr. Co., 875 Subway Terminal Bldg., $160,000.

Calif., Los Angeles — APARTMENT — Lolita Holding Co., 875 Subway Terminal Bldg., 10 story, 60 x 105 ft., rein.-con., and timber, Franklin and Western Aves., to Stanley H. Shave Constr. Co., 875 Subway Terminal Bldg., $450,000. Noted Aug. 11.

Calif., Los Angeles—BANK, STORE and OFFICE—Wilson Land Co., J. Boylson, pres., Wilson Bldg., 2 story and basement, 120 x 149 ft., rein.-con. 1st and Spring Sts., to Scofield Eng. & Constr. Co., 1100 Pacific Finance Bldg., $290,000.

Calif., Los Angeles—STUDIO—Mack Sennett Co., 1712 Glendale Blvd., 2 story, 100 x 125 ft., rein.-con and steel administration building, dressing room, power plant, etc., Ventura Blvd. near Laurel Canyon, to Austin Co., of Calif., 777 East Washington St., $400,000. Noted July 14.

Calif., Oakland—APARTMENT—Bercovich and associates, c/o H. C. Baumann, archt., 251 Kearny St., San Francisco, 16 story and basement, concrete, Grand Ave., to Thebo, Starr & Anderton, Sharon Bldg., San Francisco, approximately $1,000,000.

Calif., San Francisco—APARTMENT—G. E. and G. B. Dabovach, Mills Bldg., 4 story and basement, concrete, Eddy and Laguna Sts., to C. L. Wold Co., 185 Stevenson St., $175,000.

Calif., San Francisco—APARTMENT—Lincoln Community Apartments, Inc., c/o G. E. Ralph, archt., 110 Sutter St., 6 story and basement, rein.-con. and steel, Geary and 23rd Aves., to G. P. W. Jensen, 320 Market St., approximately $200,000.

Calif., San Francisco—APARTMENT—J. Helbing, 916 Van Ness Ave., 6 story and basement, concrete and steel, Eddy St. and Van Ness Ave., to Helbing Co., 916 Van Ness Ave., $175,000.

Calif., San Francisco—AMUSEMENT CONCESSION—Arena De La Playa, 228 Montgomery St., steel and concrete, Cabrillo St. and La Playa St., to C. Cuff, 1313 Central Bank Bldg., Oakland, approximately $185,500.

Calif., San Jose—OFFICE and BANK—1st Natl. Bank, 9 story and basement, concrete and steel, 1st and Santa Clara Sts., to K.K E. Parker, 135 South Park St., San Francisco, $251,000.

Calif., Santa Monica — HOSPITAL — Santa Monica Hospital, 3 story and basement, 40 x 140 ft. hospital, 16th St. and Arizona Ave., to L. J. Bristow Co., 16th St. and Colorado Ave., $110,000. This corrects report in Aug. 11 issue.

Ont., Toronto—GARAGE—Bay & Adelaide Garage Ltd., c/o C. Dolphin, archt., 10 Leader Lane, general contract 6 story, rein.-con., brick and steel, plain foundation to Carswell Constr. Co., C. P. R. Bldg. Archts. est. $500,000.

Ont., Toronto—OFFICE—Robins Ltd., Natl. Bldg., general contract 2 story and basement, 62 x 160 ft., concrete, brick, steel and cut stone, plain foundation, Bloor and Bay Sts., to M. De Jonckheere, 72 Ostend Ave. Archts. est. $150,000. Noted June 2.

Ont., Toronto—OFFICE—Natl. Trust Co., 22 King St. E., general contract 6 story and basement, 80 x 100 ft., brick, steel, cut stone, tile and rein.-con. addition, plain foundation, to Carswell Constr. Co., C. P. R. Bldg., King St. E.; steel to Dominion Bridge Co., Reford Bldg.; plumbing, heating, and ventilating, to R. Long & Son, 243 Church St. Archts. est. $250,000.

Ont., Toronto—OFFICE—H. Falk, 23 Woodside Ave., general contract 12 story and basement, brick, steel, cut stone and tile, plain foundation, Richmond St. W., to J. V. Gray Const. Co., Northern Ontario Bldg. Archts. est. $400,000. Noted June 30.

B. C., Vancouver—APARTMENT—Bell-Irving, Creery & Co., Ltd., 989 Hastings St. W., 3 story and basement, 40 x 235 ft., concrete and timber, plain foundation, Pacific and Lewis Sts., to Hodgson, King & Marble, 626 Pender St. W., $150,000.

Que., Montreal—THEATRE—F. Tabaah, 209 Notre Dame St., E., 80 x 100 ft., stone, theatre, Sherbrooke St., to H. and A. Dufresne, Montreal. $300,000. Confederation Amusement Co., lessee.

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Buildings—Industrial

Proposed Work

Mass., Boston—SERVICE and REPAIR GARAGE—Owner, c/o A. J. Carpenter, archt., Moss Hill Rd., Jamaica Plain, having plans prepared 1 story, rein.-con., plain foundation, Willow St. $40,000.

Mass., Everett—LAUNDRY and GARAGE—Glendale Laundry, Inc., 740 Bway., soon takes bids 2 story, 120 x 150 ft., rein.-con. and brick concrete foundation, Bway. Desmond & Lord, 1 Beacon St., Boston, archts.

Mass., North Attleboro—COOPERAGE—Raymond Cooperage Co., Smithfield Ave., Pawtucket, R. I., plans manufacturing building, Bway., here. $40,000 or more. Engineer and architect not selected.

Mass., South Braintree (br. Boston)—FACTORY—Braintree Shoe Co., Union St., plans 2 story timber addition. $40,000. Engineer and architect not selected.

Mass., Winchester—REPAIR and SERVICE GARAGE—W. R. Marshall, 19 Ridgefield Rd., plans 1 story, 90 x 150 ft., brick and steel, plain foundation, 36 Church St. $45,000. Private plans.

Conn., Waterbury — FACTORY — Amer. Fastener Co., 54 Maple St., having plans prepared by C. J. Bailey, 63 Bank St., 5 story, brick addition.

N. J., Newark—PLANT—C. B. Comstock, archt., 110 West 40th St., New York City, taking bids general contract 2 story, 65 x 90 ft., rein.-con., brick and steel, plain foundation, Bergen St., here, for General Baking Co., 420 Lexington Ave., New York City. $40,000.

N. J., North Bergen (Ind. br. Weehawken)—SILK FACTORY—W. Messner Silk Co., 223 Hackensack Plank Rd., Weehawken, having plans prepared 2 story and basement, brick and steel, plain foundation, $40,000. Private plans.

N. J., Perth Amboy — AIRPLANE FACTORY — Heff Airplanes, Inc., I. R. Crouse, treas., 231 Walter St., plans brick and steel, plain foundation, Pardee Tract. $50,000. Engineer and architect not selected.

Pa., Pittsburgh — PAINT FACTORY — Standard Plate Glass Co., 1st Natl. Bank Bldg., having plans prepared by Hunting, Davis & Dunnells, Century Bldg., 4 story and basement, 40 x 153 ft., rein.-con. and steel, Galveston Ave. $150,000.

Pa., Pittsburgh—BRASS PLANT—Chaplin Fulton Mfg. Co., 28 Penn Ave., having plans prepared by B. H. Prack, Martin Bldg., 3 story and basement, 32 x 100 ft., brick, steel and concrete addition, Penn Ave. $100,000.

Tenn., Nashville—FURNITURE FACTORY—Lamb & Co., 110 North 1st St., I. B. Lamb, pres., plans rein.-con., Duncan St. $100,000.

Mich., Harbor Beach—STARCH MILL—Huron Milling Co. having plans prepared 3 story, 100 x 220 ft. starch mill, rein.-con. and brick, plain foundation. $180,000. Private plans.

Ia., Sheldon — LIGHT and POWER PLANT—Western States Pub. Utilities Co., 521 Terminal Bldg., Lincoln, Neb., plans rein.-con. and brick power plant, incl. two 500 hp. Diesel oil engines, generators, etc., here. $250,000. Election Aug. 25, franchise for same. Private plans.

Tex., Balmorhea — ICE and LIGHT PLANTS—Borderland Utilities Co. having preliminary plans and surveys, made, etc. 25 to 30 ton ice plant, $35,000, and modern light plant, $30,000. Private plans.

Tex., Black Jack (mail Troup)—COTTON GIN PLANT—M. B. Smith & W. A. Shaw, Troup, having plans prepared cotton gin, brick and concrete, here. $40,000. Private plans.

Tex., Galveston—POWER PLANT—University of Texas, Austin, having plans prepared by R. L. White, c/o owner, power plant at John Sealy Hospital, here. $85,000.

Tex., Lubbock — CREAMERY — Swift & Co., 33 South Clark St., Chicago, Ill., had plans prepared modern creamery plant, 1,500,000 lb. butter annually. $100,000. Private plans.

Tex., San Angelo — REFINERY — San Angelo Refining Co., c/o R. P. Himes, vice pres., having preliminary plans prepared refinery. $100,000. Private plans.

Tex., San Antonio—CREAMERY—R. W. Alford, c/o Thorain Apts., soon lets contract 2 story, rein.-con., brick and hollow tile creamery. $60,000 incl. equipment. Phelps & DeWees, 718 Gunter Bldg., engrs.

Tex., Willis—COTTON GIN PLANT—Planters Gin Co., purchased site and making plans 8 stand, 80 saw capacity, either crude oil or electrically operated engines, cotton gin plant. $40,000. Private plans.

Okla., Mooreland — GAS COMPRESSOR STATION—Empire Pipe Line Co., Bartlesville, made plans natural gas compressor station, incl. three 1,000 hp. Diesel engine driven compressors, here. $75,000. Private plans.

Okla., Oklahoma City—ROUND HOUSE—Atchison, Topeka & Santa Fe R.R. Co., 80 East Jackson Blvd., Chicago, Ill., C. F. W. Felt, ch. engr., plans round house, 36th St. and Sante Fe R.R. tracks, here. $100,000. Private plans.

Calif., Los Angeles—FACTORY—Western Lithograph Co., 600 East 2nd St., had plans prepared by J. F. Rhodes, Pershing Sq. Bldg., 3 story, 75 x 120 ft., rein.-con., Rose St.

Calif., Los Angeles—LAUNDRY—Community Laundry, 1003 McCadden Pl., having preliminary plans prepared by W. J. Saunders, Laughlin Bldg., 145 x 250 ft., Highland and Wiloughby Aves. To exceed $75,000.

Calif., Los Angeles—MACHINERY EXCHANGE — R. Rosenberg, 5041 Franklin Ave., having plans prepared by Kerman & Miller, Bd. of Trade Bldg., 7 story, 300 x 574 ft., stucco and cast stone, Santa Fe Ave., 15th, Imperial and 16th Sts. $1,500,000.

Calif., Pasadena — FACTORY — E. H. Stoll, 341 Wall St., plans 2 story, 100 x 125 ft., brick and concrete, Daisy and Nina Sts. $40,000. Engineer and architect selected soon.

Calif., Sacramento — MACHINERY — State Building Comn. having plans prepared by H. H. Gutterson, 526 Powell St., San Francisco, rein.-con. at state fair grounds. $150,000.

Calif., San Francisco—CANDY and CONFECTIONERY FACTORY — G. Haas & Sons, Phelan Bldg., having plans prepared by W. Lowe, 354 Hobart St., Oakland, 3 story and basement, rein.-con., 10th and Howard Sts. $150,000.

Calif., San Francisco—INDUSTRIAL PLANT—Bliss & Fairweather, archts., Balboa Bldg., preparing preliminary plans rein.-con. industrial plant, south of Market Dist. $500,000. Owner's name withheld.

Bids Desired

Mass., Boston—SALES, SERVICE and REPAIR—Argonaut Realty Corp., c/o H. C. Hickey, in charge, General Motor Bldg., Detroit, Mich., taking bids 2 story, rein.-con. and stone, plain foundation, North Beacon St., here. A. Kahn, Inc., Marquette Bldg., Detroit, Mich., archts. Cadillac Auto Co. of Boston, 664 Commonwealth Ave., lessee. Noted Aug. 4.

Mass., Roxbury (br. Boston)—REPAIR and SERVICE GARAGE—See "Contracts Awarded."

Mass., Webster — PLANT — Aug. 26, by Stevens Linen Wks., rein.-con. and brick, Dudley St. $40,000. C. T. Main, Inc., 201 Devonshire St., Boston, archt.

Conn., Bridgeport—SERVICE STATION and SALES—Aug. 26, by F. L. Miles Co., 2316 Fairfield Ave., 1 story, 100 x 200 ft., rein.-con., brick and steel, Dewey St. $100,000. Fletcher-Thompson, Inc., 542 Fairfield Ave., archts.

Pa., Phila. — MANUFACTURING — See "Contracts Awarded."

Mich., Lansing—FACTORY—Olds Motor Wks., I. J. Reutter, works mgr., taking bids 1 story, rein.-con., brick and steel factory, plain foundation, also 2 story, 80 x 900 ft. warehouse with concrete loading dock. Private plans.

Ill., Chicago—WAREHOUSE and SHOP—Aug. 30, at office West Park Comrs., (Constr. Div.), 1553 West Madison St., J. J. McComb, secy., warehouse and shops building, in Garfield Park. Michaelson & Rognstad, 3256 Franklin Blvd., archts.

Wis., Milwaukee—BOILER HOUSE—See "Buildings-Educational, Religious."

Ia., Ames—DAIRY—Aug. 30, by State Bd. Educ., c/o W. H. Gemmill, secy., Des Moines, 2 story, rein.-con. and brick, here. $400,000. Proudfoot, Rawson & Souers, 810 Hubbell Bldg., Des Moines, archts.

Calif., Los Angeles—LAUNDRY—Bluebird Laundry Co., South Western Ave., taking bids (selected list of bidders), 3 story, 71 x 140 ft. and 40 x 71 ft., rein.-con., 3606 South Western Ave. $100,000. Noted Mar. 31.

Calif., Los Angeles—FACTORY—M. M. Marston, archt., Douglas Bldg., taking bids 1 story and basement, 50 x 50 ft., brick annex, South Maple Ave., for Egyptian Lacquer Mfg. Co., c/o architect.

Calif., San Francisco—FACTORY—See "Contracts Awarded."

Contracts Awarded

Me., Saco — REPAIR and SERVICE GARAGE—York County Motor Corp, c/o J. S. Stickney, archt., Saco, 1 story, rein.-con., plain foundation, to J. M. Johnson, 87 High St. Archts. est. $40,000.

Mass., Boston — STORAGE — Harvard Building Trust, c/o Blackwall, Clapp & Whittemore, archts., 31 West St., 3 story, rein.-con. and steel top addition, Harrison Ave. & Howard St., to Turner Constr. Co., 178 Tremont St.

Mass., Charlestown (Sta. Boston)—BAKERY—General Baking Co., 62 Bunker Hill St., altering 3 and 4 story, 85 x 105 ft., brick, plain foundation, Bunker Hill St., to C. A. Dodge Co., Albany and Erie Sts., Cambridge.

Mass., Hyde Park (Ind. br. Boston)—BLACKSMITH SHOP—F. Kinkel & Son, 10 Wolcott St., 1 story, brick, plain foundation, to C. C. Temple Co., 99 Chauncy St., Boston.

Mass., Lowell—GARAGE and REPAIR SHOP—T. F. Clark, 33 Oak St., 1 story, rein.-con. and brick, plain foundation, Howe St. to J. L. O'Brien, Pines Rd., Billerica, Archts. est. $40,000.

Mass., Norwood—BOILER HOUSE — Plimpton Press, 1 story, rein.-con and brick, plain foundation, to W. Smith & Son, Norwood. Archts. est. $40,000.

Mass., Roxbury (br. Boston)—REPAIR and SERVICE GARAGE—S. Rudnick, c/o Eisenberg & Feer, archts., 46 Cornhill, will build 1 story, 55 x 185 x 280 ft., rein.-con. and brick, plain foundation, 1322 Tremont St. $75,000-$100,000. Work will be done by separate contracts.

R. I., Providence—SALES and SERVICE STATION and REPAIR SHOP—H. K. Noyes & Son, Inc., 857 Commonwealth Ave., Boston, will build 2 story, 90 x 123 ft., rein.-con. and brick, plain foundation, 9 Reservoir Ave., by day labor. Private plans.

N. J., Jersey City—CHEMICAL PLANT—Richards Chemical Wks., 190 Warren St., general contract 2 story and basement, 100 x 200 ft., brick and steel, plain foundation, Warren and Essex Sts., to J. Billington, 198 Fairmount Ave. Archts. est. $100,000.

N. J., Union City—SILK FACTORY—Clark, MacMullen & Riley, archts., 101 Park Ave., New York City, 3 story and basement, 70 x 90 ft., rein.-con., brick and steel, plain foundation, here, to Wighton-Abbott Corp., 552 West 23rd St., New York City, for Schwarzenbach-Huber, Inc., 511 23rd St., Archts. est. $75,000.

Pa., Franklin—MACHINE SHOP and FOUNDRY—E. McGeorge, engr. and archt., 3030 Euclid Ave., Cleveland, O., 1 story, brick and steel, here, to Hughes-Foulkrod Co., 421 7th Ave., Pittsburgh, for Chicago Pneumatic Tool Co., 572 Randolph St., Chicago, Ill. Archts. est. $300,000. Noted Aug. 4.

Pa., Phila. — MANUFACTURING — General Electric Co., Witherspoon Bldg., will build 1 story, gallery and basement, 141 x 554 ft., rein.-con., brick, and steel, plain foundation, Elmwood Ave. between 67th and 70th Sts. $400,000. Work will be done by separate contracts. Harris & Richards, Drexell Bldg., archts. Noted July 16.

Pa., Phila.—FACTORY—Ballinger Co., archts., 12th and Chestnut Sts., 5 story and basement, 90 x 131 ft., rein.-con. and brick, plain foundation, 417-25 North 8th St., to Robert E. Lamb Co., 841 North 19th St., for Brown & Bailey, 410 Franklin St. Archts. est. $300,000. Noted July 28.

Tenn., Nashville—WAREHOUSE, etc.—C. B. Ragland & Co., 152 2nd Ave. S., 3 story and basement, 300 x 500 ft., rein.-con. (wholesale grocery) warehouse, coffee and roasting plant, cold storage, etc., Duncan St., to Mangaums-Bell Constr. Co., Murfreesboro, approximately $65,000.

O., Canton—FACTORY—Central Alloy Steel Corp., rebuilding 1 story 160 x 420 ft., 1100 Beldan Ave. N. E., recently destroyed by fire, to R. H. Evans Co., Daily News Bldg., $75,000. Noted Apr. 14.

O., Chillicothe—REPAIR GARAGE—Dept. Hys. & Pub. Wks., Ohio Hartman Bldg., Columbus, 1 story and basement, brick, concrete and steel, here, to McCurran Bros., Xenia, $42,720.

O., Cleveland — TERMINAL—Oregon—21st Building Co., general contract motor truck freight terminal addition, incl. 76 x 120 ft. warehouse and dock, etc., 21st St. and Oregon Ave., to A. A. Lane Constr. Co., 1869 East 55th St. Archts. est. $45,000. Knutsen Motor Trucking Co., 2100 Rockwell St., lessee.

Buildings—Industrial (Continued)

Mich., **Detroit** — PRINTING — Franklin Offset Co., Grand Blvd., 4 story and basement, rein.-con., brick and steel, East Jefferson Ave., to Otto Misch Co., 159 East Columbia St. Archts. est. $150,000.

Mo., **Jefferson City**—POWER PLANT—Missouri Power & Light Co., Bd. Trade Bldg., Kansas City, altering and constructing rein.-con., brick and steel addition, incl. 3,000 kw. turbo-generator, etc., here, to McClellan & Junkersfield, 68 Trinity Pl., New York City. Engrs. est. $250,000.

Mo., **St. Louis**—METAL MANUFACTURING PLANT—Alois Aufrichtig Copper & Sheet Iron Mfg. Co., 900 South 3rd St., 1 and 2 story, 160 x 240 ft., rein.-con., brick and steel, Delor St. and Missouri Pacific R.R. tracks, to William H. & Nelson Cunliff Constr. Co., 410 North Euclid Ave. Archts. est. $100,000. Noted June 23.

Tex., **Belton**—COTTON GIN PLANT—Farm Bureau Gin Co., 24 x 90 ft., brick and concrete, 90 bale capacity, 80 saw 8-stand size, to New Lumber Co., Belton. Archts. est. $42,000 incl. machinery. Noted Aug. 11.

Calif., Los Angeles — FACTORY — See "Proposed Work."

Calif., San Francisco—FACTORY—Pacific Can Co., 290 Division St., will build 1 story, rein.-con., Newhall St. and Williams Ave. $100,000 with equipment $500,000. Work will be done by segregated contracts under supervision L. H. Nishkian, engr., Monadnock Bldg.

Calif., Stockton—TRUCK PLANT—Graham Bros., 1 story, 90 x 540 ft. addition, incl. assembly plant and painting department, to J. F. Shepherd, 1st Natl. Bank Bldg., approximately $150,000.

Buildings—Educational, Religious

Proposed Work

Mass., Brockton—CHURCH—St. Coleman's Parish, W. J. Fennessey, pastor, having plans prepared by E. T. P. Graham, 171 Newbury St., 1 story and basement, brick and stone, plain foundation, Lyman St. and Wendell Ave. $150,000. Noted Aug. 4.

Mass., Chicopee — SCHOOL — City, c/o School Com., plans brick and steel, McKinstry Ave. $200,000. Engineer and architect selected soon.

Mass, Medford (br. Boston)—SCHOOL and CONVENT—St. Joseph's Parish, D. Horgan, pastor, plans brick, steel and stone school and convent. $150,000. Engineer and architect not selected.

R. I., Providence—COLLEGE—Providence College, W. D. Noon, River Ave., having sketches made by J. W. Donahue, 1242 Main St., Springfield, Mass., brick and stone, Eaton St. and River Ave. To exceed $150,000.

Conn., West Hartford (br. Hartford)—CHURCH and PARISH HOUSE—First Congregational Church having plans prepared by Coolidge & Carlson, 89 State St., Boston, church and parish house, South Main and Seyms Sts. $150,000 or more. Noted June 9.

Conn., Wethersfield—HIGH SCHOOL—School Bd., Town Hall, soon take bids brick, steel and stone, Church St. $185,000. Ebbets & Frid, 15 Lewis St., Hartford, archt.

N. J., Bogota (br. Hackensack)—HIGH SCHOOL—Bd. Educ., Boro Hall, having plans prepared by C. V. R. Bogert, 167 Main St., Hackensack, 3 story and basement, brick and steel addition, plain foundation. $150,000.

N. J., Demarest—SCHOOL—Bd. Educ., Boro Hall, having plans prepared by E. Sibley, 1034 Edgewood Lane, Palisades, 2 story and basement, brick and steel, plain foundation. $150,000.

Pa., Lancaster—SCHOOLS—Bd. Educ. having plans prepared by W. B. Ittner, 911 Locust St., St. Louis, Mo., and soon takes bids 3 story school, $350,000; and 2 Junior High Schools, $450,000 each. Noted May 12.

N. J., Millburn—SCHOOL—Bd. Educ., Town Hall, soon lets contract 2 story and basement, brick and steel addition to Short Hills School, plain foundation. $150,000. Guilbert & Betelle, 20 Branford Pl., Newark, archts. Noted July 7.

N. J., Newark—HIGH SCHOOL—Bd. Educ., City Hall, Broad and Green Sts., plans brick and steel addition to West Side High School. Engineer and architect not selected.

N. J., New Brunswick—DORMITORIES—New Jersey State College for Women having sketches made by Ludlow & Peabody, 101 Park Ave., New York City, 3 story and basement, brick and steel, plain foundation. $150,000.

N. J., Teaneck — HIGH SCHOOL — Bd. Educ. takes bids about Nov. 1, 3 story and basement, 250 x 250 ft., brick and steel, plain foundation. $725,000. Hacker & Hacker, Ft. Lee Trust Bldg., Ft. Lee, archts. Noted Mar. 31.

Va., Charlottesville—MEDICAL SCHOOL University of Virginia, and Coolidge, Shenley, Bulfinch & Abbott, archts., Ames Bldg., Boston, Mass., soon lets contract 4 story and basement, concrete, brick and steel medical school. $1,500,000. Noted Aug. 11.

W. Va., Bethany — DORMITORIES — Bethany College having plans prepared by A. L. Thayer, Greer Bldg., New Castle, Pa., girls and boys dormitories, $350,000.

Mich., Detroit—SCHOOL—Owner, c/o R. O. Derrick, archt., 120 Madison Ave., having plans prepared 2 story and basement, 50 x 200 ft. brick, steel and rein.-con., plain foundation. $250,000.

Mich., Ann Arbor — LEAGUE — Alumni Assn., E. P. Pomenay, chn., 938 Glengyle Ave., Chicago, Ill., having plans prepared by Pond, Martin & Lloyd, 6 North Michigan Ave., Chicago, Ill., 3 story and basement, brick, steel, stone and rein.-con., plain foundation, North University, here. $650,000.

Wis., Neenah—SCHOOL—Bd. Educ., 561 East Wisconsin St., soon takes bids 2 story and basement, 150 x 200 ft., and 1 and 2 story and basement, 180 x 200 ft., brick and stone buildings, Elm St. $400,000. J. D. Chubb, 109 North Dearborn St., Chicago, Ill., archt. Noted Mar. 17.

Kan., Wellington—HIGH SCHOOL—Bd. Educ. plans 3 story, rein.-con., brick, stone high school. $300,000. Schmidt, Boucher & Overend, 4th Natl. Bldg., Wichita, archts.

Mo., Kansas City — ART GALLERY — William Nelson Gallery, c/o trustee, c/o Wight & Wight, archts., 400 1st Natl. Bank Bldg., having preliminary plans rein.-con., brick and stone, 44th St. and Rockhill Rd. $600,000.

Mo., St. Louis — CHURCH and COMMUNITY CENTER—Asbury Colored Methodist Episcopal Congregation, c/o A. E. Diggs, pastor, 4307 Garfield Ave., having plans prepared by F. J. Roberson & Sons, 13 North Jefferson Ave., 3 or 5 story and basement, 75 x 130 ft. and 2 story and basement, 50 x 138 ft., rein.-con., brick and stone, incl. gymnasium, swimming pool, etc. Taylor and St. Ferdinand Sts. $300,000.

Mo., St. Louis—EXHIBIT HALL—Natl. Dairy Show Assn., c/o F. W. A. Vesper, Grand and Lindell Blvds., making preliminary plans 1 story and part basement, 400,000 sq.ft. floor space on main floor, rein.-con., brick and stone, Oakland Ave. in Forest Park. $500,000.

Tex., Austin—LIBRARY—Bd. Regents, H. J. L. Stark, chn., Orange, having plans prepared by H. M. Greene, 805 Santa Fe Bldg., Dallas, 2 story, brick, stone and rein.-con. addition, on Campus, here.

Tex., Brownsville—HIGH SCHOOL—Bd. Educ., c/o S. C. Tucker, pres., having plans prepared by Phelps & Dewees, 718 Gunter Bldg., San Antonio, brick, concrete and stone Junior High School. $350,000.

Tex., Galveston—NURSES HOME—University of Texas, Austin, having plans prepared by R. L. White, c/o owner, rein.-con., brick and stone, at John Sealy Hospital, here. $225,000.

Tex., San Antonio—SCHOOL—Catholic Church, c/o L. M. J. Dielmann, archt., 305 East Commerce St., plans 3 story, part basement, rein.-con. and brick, plain foundation, Laredo St. between Houston and Travis Sts. $200,000.

Tex., Sherman — ADMINISTRATION — Kid-Key College, c/o E. Spurlock, pres., soon lets contract completing 3 story, 50 x 100 ft., rein.-con., brick, terra cotta and hollow tile, plain foundation, $175,000. Clyce & Rolfe, 306 Commercial Bldg., archts. Noted Dec. 30.

Tex., Stinnett—SCHOOL—Voted $200,000 bonds, school buildings, for Bd. Educ. Address Secretary Bd. Educ.

Okla., Chickasha—DORMITORY—State Board of Affairs, Capitol Bldg., Oklahoma City, having plans prepared by Layton, Hicks & Forsythe, Baniff Bldg., Oklahoma City, 3 story and basement, rein.-con. and brick, plain foundation, on campus, for Oklahoma College for Women, here. $200,000. Noted June 23.

Okla., Enid—GYMNASIUM—Bd. Educ. having preliminary plans prepared by R. W. Shaw, Enid, 2 story and basement, 90 x 160 ft., rein.-con. and brick, plain foundation, 7th St. $150,000.

Okla., Stillwater—COLLEGE—State Bd. Agriculture, Oklahoma City, having plan prepared by Layton, Hicks & Forsythe, Baniff Bldg., Oklahoma City, 2 story, rein.-con., brick and stone, plain foundation, here. $300,000.

Calif., Davis—ANIMAL SCIENCE—University of California, Berkeley, had plans prepared by W. C. Hays, 1st Natl. Bank Bldg., San Francisco, 2 story, 50 x 400 ft., rein.-con., here. $275,000. Noted May 5.

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Buildings—Educational, Religious (Cont.)

Calif., Fresno—COLLEGE—State Building Comn., Sacramento, having plans prepared by Allison & Allison, Hibernian Bldg., Los Angeles, 2 story and basement, 60 x 200 ft., rein.-con. and brick, Fresno St., here, $200,000.

Calif., Los Angeles—SCHOOL—Bd. Educ. had plans prepared by J. R. Kibbey, 600 South Vermont Ave., brick school, $150,000.

Calif., Monrovia—HIGH SCHOOL—Trustees Arcadia, Monrovia, Duarte High School Dist., plans high school, West Orange St. and Madison Ave. $625,000. J. C. Austin & F. M. Ashley, Chamber of Commerce Bldg., Los Angeles, archts. Noted July 14.

Calif., San Francisco — TRAINING SCHOOL — Salvation Army, McAllister and Market Sts., had plans prepared by Inwood & Gayton, 72 Atlantic Ave., Long Beach, part 1 and 2 story, Silver Ave. To exceed $150,000.

Calif., Willits—HIGH SCHOOL—Willits Union High School Dist. plans election $150,000 or more bonds, high school.

Bids Desired

Vt., Rutland — HIGH SCHOOL — School Com. taking bids 3 story, 125 x 215 ft., brick and steel, stone or terra cotta, Church St. $400,000. A. G. Creighton, 140 State St., New London, Conn., archt.

R. I., Edgewood (Providence P. O.) — SCHOOL — Town of Cranston, Edgewood School Com., taking bids and open same about Sept. 10, 2 story and basement, 70 x 120 ft., brick and steel, Beachmont Ave., here. $185,000. W. R. Walker & Sons, 49 Weybosset St., Providence, archts.

R. I., Providence—NURSES' HOME—Homeopathic Hospital of R. I., 825 Chalkstone Ave., taking bids 2 story and basement, brick addition, plain foundation. $150,000. Jackson, Robertson & Adams, Turks Head Bldg., archt. Noted Apr. 14.

Conn., Hartford—SYNAGOGUE—Agudus Achim Congregation, B. Eachtel, taking bids 2 story and basement, 68 x 100 ft., rein.-con., brick and steel, Oakland, Terrace and Greenfield St. $150,000. Berenson & Moses, 30 Allyn St., archts.

N. Y., College Point—(Ind. Sta. Flushing)—SCHOOL—Sept. 7, by W. H. Gompert, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 29, 23rd Ave. from 125th to 126th Sts., here, for Bd. Educ., 500 Park Ave., New York City.

N. Y., Glendale (mail Brooklyn)—SCHOOL—Sept. 13, by W. H. Gompert, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 113, 4 story, brick, steel and stone, plain foundation, 79th and 78th Aves., 87th and 88th Sts., here, for Bd. Educ., 500 Park Ave., New York City. Noted Jan. 20.

N. Y., New York—SCHOOL—Sept. 7, by W. H. Gompert, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 14, 3 story, 130 x 165 ft., brick, steel and stone, plain foundation, Eastern Blvd. and Baisley Ave., here, for Bd. Educ., 500 Park Ave., New York City. Noted Feb. 3.

N. J., Glassboro—DORMITORY—Sept. 7, by Institutions & Agencies, Trenton, 3 story and basement, 45 x 167 ft., brick, for State Normal School, here. Guilbert & Betelle, Chamber of Commerce Bldg., Newark, archts. Noted July 14.

N. J., Jersey City—SCHOOL—Sept. 7, by Institutions & Agencies, Trenton, New State Normal School, 2 story and basement, 68 x 241 ft., brick and rein.-con., here. Guilbert & Betelle, Commerce Bldg., Newark, archts. Noted Apr. 14.

Pa., Lansdowne—HIGH SCHOOL—Aug. 30, by School Dist., F. S. Underhill, 112 North Broad St., Phila., Junior and Senior High School, 2 story and basement, 79 x 390 ft., and 119 x 127 ft., rein.-con., brick and steel, plain fonudation, Green and Highland Sts., here. Heacock & Hokenson, 1211 Chestnut St., Phila., archts.

La., Lake Charles—CHURCH—Sept. 1, by Broad St. Methodist Congregation, R. W. Wynn, pastor, 3 story, rein.-con., brick, steel and cut stone, Broad and Kirkman Sts. $150,000. R. S. McCook, Frank Bldg. and Asmus & Clark, Nashville Trust Bldg., Nashville, Tenn., associated archts. Noted Mar. 10.

O., Neptune (Celina P. O.)—SCHOOL—Sept. 16, by Bd. Educ., F. Young, clk., R. F. D. 4, Celina, 3 story and basement, 86 x 120 ft., brick and concrete, incl. auditorium and gymnasium, here. $150,000. Porter & Virtue, 1714 North High St., Columbus, archts.

Mich., Bath—SCHOOL—Aug. 29, by Bd. of Educ., 2 story and basement, rein.-con., brick and steel, plain foundation. $225,000. Warren Holmes-Powers Co., Capitol Savings Bank Bldg., Lansing, archts.

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Ill., Chicago—SCHOOL—Sept. 1, by Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., general contract 3 story, 90 x 240 ft. school at Major and Roscoe Sts. $500,000. J. C. Christensen, 650 South Clark St., archt.

Wis., Milwaukee—SCHOOL—Sept. 1, by Bd. School Directors, Townsend School, 3 story and basement, 148 x 174 ft. school, and 70 x 70 ft. boiler room, brick, natural stone, and terra cotta, Sherman Blvd. Private plans.

Tex., San Antonio—SALVATION ARMY BUILDING—Salvation Army, c/o E. White, College and Presa Sts., taking bids and open same about Sept. 9, 5 story and part basement, rein.-con., hollow tile and stucco, plain foundation, Presa and College Sts. $150,000. A. B. and R. M. Ayers, 626 Bedell Bldg., archts. Noted Aug. 18.

Calif., San Francisco—INFANT SHELTER—San Francisco Infant Shelter, c/o Palace Hotel, having plans prepared by L. C. Mullgardt, Bohemian Club, 2 story, frame and stucco, Ortega St. and 19th Ave. $150,000.

Bids Received

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., Aug. 9, 5 story and basement, 156 x 164 ft., rein.-con., brick and steel, trade school, plain foundation, Frankford and Clementine Sts., from McCloskey Co., 1620 Thompson St., $909,730. Noted Aug. 4.

Contracts Awarded

Vt., Middlebury—LIBRARY—Middlebury College, J. A. Fletcher, 1 and 2 story, basement, and 2 wings, steel, brick, and marble, plain foundation, to Cummings Constr. Co., 14 Prospect St., Ware, Mass. Noted Mar. 24.

R. I., North Providence (br. Providence)—ORPHANAGE—St. Mary's Orphanage, F. B. Atkinson, supt., 3 story and basement, brick and stone, plain foundation, Fruit Hill Ave., to A. W. Merchant, Inc., 15 Westminster St., Providence. Archts. est. $150,000 or more. Noted May 26.

Conn., Hartford — SCHOOL — South School Dist., J. E. Naylor, chn., general contract 3 story, white brick, steel and concrete, Franklin Ave., to G. Cudemo & Son N. E. Constr. Co., 68 Temple St., $411,635; plumbing, to J. M. and M. A. Fierberg, 1337 Main St., $26,435; heating and ventilating, to Libby & Blinn, 135 Sheldon St., $45,500. Grand total $483,570.

N. Y., Brooklyn—LIBRARY—J. J. Byrne, Pres. Brooklyn Boro, Boro Hall, general contract Indiana limestone wing of Brooklyn Public Library, Prospect Park Plaza between Flatbush Ave. and Eastern Parkway, here, to Thomas J. Waters Co., 415 Lexington Ave., New York City, approximately $1,000,000. Noted July 14.

N. Y., Brooklyn—SCHOOL—Bd. Educ., 500 Park Ave., New York City, addition to P.S. 104, 92nd St. and 5th Ave., here, to D. M. W. Contg. Co., 2058 Fulton St. $489,450; heating, to D. J. Rice, Inc., 405 Lexington Ave., New York City, $57,470. Noted May 26 and July 28.

N. Y., Corona—SCHOOL—Bd. Educ., 500 Park Ave., New York City, general contract P. S. 14, Otis Ave. and Van Dorne St., Corona Heights, here, to Concord Constr. Co., 476 Seneca Ave., Brooklyn, $303,400; and heating, to H. Starkman & Bros., 333 East 81st St., New York City, $46,220. Noted July 7.

N. J., Keyport—HIGH SCHOOL—Bd. Educ., general contract 2 story basement, brick and steel, plain foundation, Broad St., to M. Riesg, Amboy Rd., Metuchen, approximately $190,000. Noted July 21.

N. J., West New York (Ind. br. Weehawken) — APARTMENT — Park Ave. Constr. Co., Park Ave., general contract 5 story and basement, brick and steel, plain foundation, Park Ave. and 16th St., to W. Walser, 524 17th St. Archts. est. $150,000. Noted June 2.

Pa., Phila.—SCHOOL—Girard College, Stephen Girard Estate, Lafayette Bldg., 4 story and basement, 63 x 92 ft., rein.-con., brick and stone addition, plain foundation, Girard and Corinthian Sts., to Day & Zimmerman, 1600 Walnut St. Archts. est $465,000.

Pa., Swarthmore—MEMORIAL DORMITORY—Swarthmore College, 2 story and basement, 133 x 133 ft., brick and steel, plain foundation, to McNeill Constr. Co., Schaff Bldg., Phila.

D. C., Wash.—CHURCH and SUNDAY SCHOOL—Fourth Church of Christ Scientist, 16th St. between Oak and Meridian Sts. N. W., church and Sunday school, to N. P. Severin Co., 105 West Monroe St., Chicago, Ill., $250,000. Noted July 24.

La., Natchitoches — COLLEGE — State Normal College, O. L. Roy, pres., 3 story, rein.-con. and brick and 2 story brick, here, to Knapp & East, Lake Charles, $225,000. Noted July 21.

Tenn., Nashville—HIGH SCHOOL—Bd. Educ. having plans prepared by C. K. Colley & Sons, 4th and 1st Natl. Bank Bldg. Junior High School, incl. gymnasium, auditorium, manual training department, etc. $250,000.

O., Bellevue — HIGH SCHOOL — Bd. Educ., for Central High School, brick, steel and concrete, to Hossler Bros., Tiffin, $278,579. Noted Aug. 18.

O., Cleveland — LIBRARIES — Cleveland Pub. Library, C. S. Metcalf, secy., library, West 157th St. and Lorain Ave., to H. E. Klefman Co., 2840 Lorain Ave., $86,000; and library, East 152nd St. and St. Clair Ave., to W. F. McCarthy, 14404 Northfield Ave., $85,194, both brick, steel and concrete.

Mich., Flint — HIGH SCHOOL — Bd. Educ., 3 story, 220 x 350 ft., rein.-con., brick and steel, plain foundation, to W. E. Wood Co., 611 Smith Bldg., $499,400; heating, to Ryan Plumbing & Heating Co., 403 Brady St., Davenport, Ia., $124,500. Noted Aug. 4.

Wis., Milwaukee—NURSES HOME—St. Marys Hospital, 144 Lake Dr., 5 story and basement, rein.-con., brick, and Bedford stone, concrete foundation, Lake Dr., to Theo. Stark & Co., 130 Muskego Ave. Archts. est $500,000. Noted May 12.

Okla., Goodwell — LABORATORY — Panhandle A. & M. College, 3 story and basement, fireproof, to Bailey & Barnes, Norman, $109,500. Archts. est. $150,000.

Colo., Denver—HIGH SCHOOL—School Dist., 2 and 3 story, 237 x 257 ft., rein.-con., brick and steel, plain foundation, Holly St. between 25th and 26th Sts., to W. Tamminga, Tramway Bldg., $369,990, plumbing and heating, to Johnson & Davis Plumbing & Heating Co., 2239 Arapahoe St., $48,806.

Ont., Toronto — COLLEGIATE — Bd. Educ., 155 College St., 2 story and basement, brick, cut stone and tile addition to Parksdale Collegiate, plain foundation, masonry, to J. W. Hewitt & Son, 56 Roncesvalles Ave.; carpentry, to F. Wilson, 22 Bank St.; steel, to Reid & Brown, Esplanade; marble and tile, to Italo-Canadian Terrazo Tile Co., 429 Spadina Ave.; plastering, to E. J. Curry, 115 Bleeker St.; heating, to Gentle, Traves & Weinraub, 291 Broadview Ave., and ventilation, to F. Ledgett, 108 Clinton St. Archts. est. $160,000.

Federal Government Work

Bids Desired

Me., Caribou — Post Office — Sept. 8, by Treas. Dept. at office J. A. Wetmore, acting superv. archt., Wash., D. C., U. S. Post Office, here.

Mass., Marlboro—Post Office—Sept. 14, by Treas. Dept. at office J. A. Wetmore, superv. archt., Wash., D. C., enlarging post office, here; adv. E. N.-R. Aug. 25.

N. Y., Buffalo—Interior Changes—Sept. 15, by Treas. Dept., at office J. A. Wetmore, superv. archt., Wash., D. C., interior changes at marine hospital, here; adv. E. N.-R. Aug. 25.

Pa., Phila.—Repairs—Sept. 6, by G. S. Burrell, Pub. Wks. officer, repairing radial block chimney of power plant at Marine Corps Boiler Plant.

Fla., Pensacola—Concrete Fire Wall—Spec. 5456—Sept. 28, by Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete fire wall at Naval Air Station, here.

Ky., Louisville—Dike—Aug. 31, at U. S. Engineer Office, for Sand Island Dike; adv. E. N.-R. Aug. 25.

Ky., Louisville—Hoist—Sept. 19, at U. S. Engineer Office, floating A-frame hoist; adv. E. N.-R. Aug. 25.

Ia., Shenandoah—Post Office—Sept. 2, by Supervising Architect, Treas. Dept., Wash., D. C., post office extensions, etc., here.

Utah, Ogden—Roads—Aug. 31, by Natl. Park Serv., Dept. of Interior, constructing East Rim Road Project, Sects 1 and 2, in Zion Natl. Park, Washington Co.

Ore., Portland—Stone—Sept. 14, at U. S. Engineer Office, 660,000 tons stone for jetties at Cross Bay entrance.

Calif., Palo Alto—Fence and Gates, etc.—Sept. 6, by U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., fence and gates at U. S. Veterans Hospital 24, here.

Calif., San Diego—Garage—Spec. 5363—Sept. 7, by Bureau Yards & Docks, Navy Dept., Wash., D. C., garage at nurses' quarters, here.

Bids Received

New Mexico—Road—Bureau Pub. Rds., Custom House, Denver, Colo., J. W. John-

Federal Government Work (Continued)

son, dist. engr., surfacing 6.61 mi. section Cimarron-Taos Natl. Forest Rd. Project, Taos Co., here, from Shield & Kyle, 640 South Race St., Denver, Colo., $91,224. Noted July 28.

Contracts Awarded

Me., Ellsworth — Remodeling — Treas. Dept., Wash., D. C., remodeling U. S. Post Office, here, to S. Pasquale, 9 Stedman St., Boston, Mass., $3,700. Noted July 21.

New York—Dredging—U. S. Engineers Office, 1st Dist., Army Bldg., 39 Whitehall St., New York City, dredging in Peekskill Harbor, to J. P. Randeson, 68 Chap. St., Albany, N. Y., $12,992; in Tarrytown Harbor, to P. Sanford Ross, Inc., 277 Washington St., Jersey City, N. J., $33,832. Noted June 30.

Md., Baltimore — Remodeling — Treas. Dept., Wash., D. C., changes in Detention and Receiving Building, Immigration Station, here, to Avon Constr. Co., Gardenville, $11,639.

Tenn., Memphis—Levee—Engineers Office, War Dept., Wash., D. C., constructing levees in Upper and Lower St. Francis and White River Levee Dists., Pieces 1 to 7 inch, to E. M. Lawrence, Memphis, $176,128; Pieces 9 to 11 inch, to Jones & Rodgers, Memphis, $118,450; and Pieces 12, 13, 14, 16, 17 inch, to Lawrence Bros. & Co., Memphis, $521,855. Grand total $816,433.

Wyoming — Roads — Bureau Pub. Rds., Custom House, Denver, Colo., J. W. Johnson, dist. engr., grading 6.55 mi. Cub Creek Sect. Entrance Natl. Park Rd., Project Yellow Stone Natl. Park, here, to Morrison-Knudsen Co., 318 Bway., Boise, Idaho, $135,000; and 4.54 mi. Granite Creek-Shell Rd. 1, Natl. Forest Road Project, Bigham Co., here, to Scott & Curlee, Sterling, Colo., $58,820. Noted July 28.

Mo., Jefferson Barracks (br. St. Louis)—Concrete Sidewalks—U. S. Veterans' Bureau, 791 Arlington Bldg., Wash., D. C., concrete sidewalks at U. S. Veterans' Hospital 92, here, to Hinehmann-Renton Constr. Co., St. Louis, Mo., $4,241. Noted July 28.

Idaho, Coeur D'Alene—Post Office—Treas. Dept., Wash., D. C., constructing U. S. Post Office, here, to Welch & Fritz, Bancroft Bldg., San Diego, Calif., $171,384. Noted June 9.

Unclassified

Proposed Work

Airport—Brockton, Mass.—Plans airport. To exceed $25,000. S. Shapiro, City Hall, chn. com. Engineer not selected.

Airport and Hangars—Corona, N. Y.—Lewis Development Co., 47 West 34th St., New York City, making plans airport with hangars, meterological office and buss station, here. $500,000. O. E. Anderson, 47 West 34th St., New York City, engr.

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., rejected bids June 24, constructing Sects. 1 and 2, Route 45, Bway.-4th Ave. Rapid Transit R.R., Manhattan Boro. Noted June 30.

Airport—Newark, N. J.—Dept. Pub. Affairs, City Hall, making sketches airport, incl. machine shops hangars, etc. $700,000. Engineer and architects names withheld.

Land Development — St. Louis, Mo. — Stedelin Bros., 823 North 4th St., purchased 50 acre site bounded by Meramec St., Gravois and Spring Aves., and plans sub-division development, incl. grading, sewers, water, sidewalks, street paving, etc. $50,000. Private plans.

Swimming Pool — St. Louis, Mo. — See "Buildings—Educational, Religious."

Transmission Lines—Texas—West Texas Utilities Co., Abilene, takes bids in September, 150 mi. high power transmission lines in Crane Co. $2,000,000. Private plans.

Gas Pipe Line—Texas and Oklahoma—Oklahoma Natural Gas Co. (subsidiary of Phillips Petroleum Co.), Amarillo, Tex., and 1 East 36th St., Oklahoma City, Okla., takes bids about Sept. 1, 22 in. natural gas pipe line from Borger to Norge, Tex., and two 12 in. lines from Norge, Tex., to Oklahoma City, Okla. $10,000,000. Private plans.

Underpasses — Amarillo, Tex. — Making plans 2 railway underpasses carrying street traffic under tracks of Rock Island Lines and Ft. Worth & Denver City Ry. $150,000. B. Jones, city engr.

Oil Pipe Line—Brady, Tex.—Lehman & Van Bebber making plans 2 mi. 6 and 8 in. oil pipe line from oil wells in Brady Dist. $35,000. Private plans.

Oil Pipe Line — Dumas, Tex. — Prairie Pipe Line Co. making plans 25 mi. 4 in. oil pipe line radiating from Merchant Pool, near here. $100,000. Private plans.

Land Development—Edinburg, Tex.—Red Land Vineyard Co., c/o I. A. White, pres., making plans developing 1,000 acres, incl. drilling wells, windmill, tower and tank on each 10 acres, near here. $35,000 incl. machinery. Private plans.

Townsite Development—Lockney, Tex.—A. Baker making preliminary plans developing 890 acre plot for townsite, incl. paving $40,000, waterworks $30,000, and sewers $30,000, near here. Private plans.

Gas System—Seguin, Tex.—Southern Gas Co., c/o City Natl. Bank Bldg., San Antonio, takes bids about Sept. 15, natural gas distributing system, here. $30,000.

Gas Line—Oklahoma—Oklahoma Natural Gas Co., 117 West 4th St., Tulsa, R. C. Sharp, pres., made plans 20 mi. 16 in. gas line from Norge to Chickasha. $225,000. R. C. Sharp, 1606 South Newport St., Tulsa, engr.

Pumping Unit—Shawnee, Okla.—Prairie Pipe Line Co., Independence, Kan., J. W. Gates, pres., made preliminary plans new pumping unit, incl. 660 hp. Diesel engine and pump, near here. $40,000. Private plans.

Compressor Unit—Tallant, Okla.—Empire Pipe Line Co., Bartlesville, made plans 1,000 hp. gas compressor unit, here. $40,000. Private plans.

Bids Desired

Culverts—New York—Aug. 26, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, 4 rein.-con. culverts along Conduit Blvd., Queens Co.

Elevators—Thiells, N. Y.—Sept. 14, by Commissioner Dept. Mental Hygiene, Capitol Bldg., Albany, electric elevators, Letchworth Village, here; adv. E. N.-R. Aug. 25.

Culvert — Memphis, Tenn. — Aug. 30, at office C. C. Pashby, city clk., 125 lin.ft. 16 ft. circular concrete box culvert known as "Huling Tunnel," foot Huling St. and Mississippi River. R. Paine, mayor; adv. E. N.-R. Aug. 25.

Aviation Field—Nashville, Tenn.—"See "Contracts Awarded."

Centrifugal Sump Pumps, etc.—Phila., Pa.—Aug. 30, by Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., electrically operated centrifugal sump pump in 6 of drainage sumps of Broad St. Subway, incl. altering sump pump room structures, installing pipes, fittings, valves, etc. Contr. 178.

Telephone Extensions—St. Louis, Mo.—See "Contracts Awarded."

Transmission Line — Texas — See "Contracts Awarded."

Undergrade Crossing—Seattle, Wash.—See "Streets and Roads."

Lighting System—Brawley, Calif.—Sept. 6, by City Trustees, ornamental lighting system on Main St. between 10th St. and west city limits. To exceed $25,000.

Lighting System — Huntington Beach, Calif.—Sept. 6, by C. R. Furr, city clk., ornamental lighting system on Main St. between Ocean Ave. and Mansion St. To exceed $25,000.

Transmission Line — Modesto, Calif. — Sept. 1, by C. S. Abbott, secy. Modesto Irrigation Dist., 40 mi. 66,000 volt transmission line, incl. bare copper cable, porcelain insulators, hardware, etc.

Bids Received

Elimination of Grade Crossing — New York — A. W. Brandt, comr. Highways, Albany, eliminating grade crossing on Southern State Parkway, Sect. 1, Part 3, Nassau Co., from Westchester Constr. Co., Ft. Plain, $110,580. Noted July 28 under "Bridges."

Coal Trestle—Orangeburg, N. Y.—Dept. Mental Hygiene, Capitol, Albany, constructing approximately 1 mi. track and coal trestle at Rockland State Hospital, here, from P. H. Murray, 226 15th St., Troy, $99,936. Engrs. est. $118,784. Noted July 28.

Contracts Awarded

Conduits—New Britain, Conn.—Bd. Pub. Wks., conduits in Court, South High and Main Sts. from Central Park to Chestnut Sts., to G. M. Gest Co., 233 Bway., New York City, $24,800. Engrs. est. $25,000.

Lighting System — New York — See "Streets and Roads."

Aviation Field—Nashville, Tenn.—City will grade 145,000 cu.yd. aviation field, by day labor, under direction W. W. Southgate, City Hall, engr. Engrs. est. $40,000. Noted July 7.

Subway — Illinois — See "Streets and Roads."

Boilers, etc.—St. Louis, Mo.—Bd. Pub. Serv., 208 City Hall, three 500 hp. boilers for municipal service building, to Heine Boiler Co., 5319 Shreve Ave., $37,078; brick settings for above, to D. Seeger, Ry. Exch. Bldg., $12,876; and 1 story and basement, 53 x 60 ft., rein.-con. and brick substation in Dist. E, to Atlas Constr. Co., International Life Bldg., $18,209. Grand total $68,163. Noted Aug. 11.

Plumbing, etc.—St. Louis, Mo.—Comrs. Metropolitan Police Dept., c/o A. C. Orrick, pres., 208 South 12th St. Blvd., plumbing for 5 story and basement, 138 x 218 ft., police headquarters, rein.-con., brick and stone, 12th St. Blvd. and Clark Ave., to J. M. Wheeler & Co., 6190 Delmar Blvd.; electrical wiring, to E. O. Rorsch Electric Co., 1405 Olive St.; and heating, to Eichler Heating Co., Ry. Exch. Bldg. Noted July 21 under "Buildings-Commercial."

Telephone Extensions—St. Louis, Mo.—Southern Bell Telephone Co., 11th and Pine Sts., will construct approximately 3 mi. aerial and install 4,300 ft. underground cable, incl. 160 poles, etc., in district bounded by Grand Blvd., Magnolia, Chouteau and Tower Grove Aves. $60,000; and approximately 3.5 mi. aerial and 5,000 ft. underground cable in district bounded by Sarah St., Vanderventer, Laclede and Labadie Aves. $65,000, by own forces. Private plans.

Gas Mains—Texas—Western Gas & Fuel Co. (Barney Carter Interests, Ranger), San Angelo, 76 mi. 8 in. gas mains from San Angelo to Ballinger, Winters, Miles, Rowena, Talpa, Valera and Silver City, also 20 mi. 6 in. main from main line to Winters, etc., to Atex Constr. Co., Eastland, approximately $275,000.

Transmission Line—Texas—San Antonio Pub. Serv. Co., c/o E. H. Kifer, San Antonio, and Comal Power Co., New Braunfels, will build high power transmission line from New Braunfels to San Antonio, by day labor. $225,000. Private plans.

Causeway—Texas and Louisiana—Sabine Developers, c/o H. McKee, Port Arthur, Tex., take bids about Sept. 1, 6 mi. timber and rein.-con. causeway from Sabine Lake at Port Arthur, Tex. to Louisiana side. $1,500,000. Private plans.

Street Lighting System—Portland, Ore.—Ornamental lighting system and setting curb 3 ft. back on 10th St. between Hoyt and Jefferson Sts., to Ne Page McKinney & Co., 8 North 9th St., and Northwestern Electric Lighting Co., Pittock Bldg., $62,068 and $39,811 respectively.

Lighting System—Corona, Calif.—Ornamental lighting system on Grand Blvd., to H. M. House, 771-3rd St., San Bernardino, $30,550. Noted May 26.

Lighting System—Long Beach, Calif.—Ornamental lighting system on 4th St. between Los Alamitos and Junipero Aves., to Paulson Constr. Co., Detwiler Bldg., Los Angeles, $33,888.

Lighting System—Los Angeles, Calif.—Ornamental lighting system on Rochester Ave. between Beverly Glen and Westwood Blvds., to Electric Lighting Supply Co., 214 West 3rd St., $84,975.

Stadium — Palo Alto, Calif. — Stanford University, stadium addition, 16,600 seating capacity, to Palmer & McBryde, 503 Market St., San Francisco.

Materials

Proposed Work

Cement—Los Angeles, Calif.—Los Angeles Co. rejected bids 35,000 bbl. cement for Puddingstone Dam.

Bids Desired

Frogs, Joint Bars, etc—Phila., Pa.—Aug. 30, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., frogs, switches and crossings, Contr. 102; and joint bars, Contr. 103.

Gravel—Carthage, Miss.—See "Streets and Roads."

Road Oil—Washington—State Hy. Comn., Olympia, taking bids 50,000 gal. road oil for unpaved roads. S. J. Humes, highway comr.

Cast Iron Pipe, etc.—San Juan, Porto Rico—Sept. 20, at office R. H. Todd, mayor, 1,350 tons c.i. pipe, etc.; adv. E. N.-R. Aug. 25.

Contracts Awarded

Pipe—St. Paul, Minn.—A. E. Eggert, city purch. agt., 47,520 lin.ft. 3- to 16-in. c.i. pipe, to Amer. Cast Iron Pipe Co., 712 Plymouth Bldg., Minneapolis; U. S. Cast Iron Pipe & Fdry. Co., 623 Glymouth Bldg., Minneapolis; and Natl. Cast Iron Pipe & Fdry. Co., Tarrant City, Birmingham, Ala.

See proposal advertising on page 118

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Bridge—Norfolk, Va.

Bids were opened by Norfolk-Portsmouth Bridge Corp., Park and Truxton Sts., June 20, for bridge between South Norfolk and Portsmouth, substructure, from (A) Hardaway Contracting Co., Columbus, Ga.; (B) Sanford & Brooks Co., Norfolk; (C) Atlantic Bridge Co., Greensboro, N. C.; (D) The Foundation Co., New York City; superstructure, from (A) Atlantic Bridge Co.; (B) McClintic-Marshall Co., Philadelphia, Pa.; (C) Phoenix Bridge Co., Phoenixville, Pa.; (D) Sanford & Brooks Co. The unit bids are as follows:

SUBSTRUCTURE	A	B	C	D
1,830 cu.yd. concrete—base of tower piers	$31.00	$39.90	$45.50	$50.00
680 cu.yd. concrete—bases of cylinder piers	32.00	42.00	44.00	55.40
140,000 steel shells	.08	.075	.07	.0915
660 cu.yd. concrete in shafts	26.00	41.40	25.00	37.10
4,900 lin.ft. untreated piles	1.00	1.87	2.50	3.10
4,500 lin.ft. concrete piles	6.00	5.14	6.00	9.63
100 cu.yd. concrete in caps	26.00	26.40	35.00	67.30
35,000 lb. reinforcing steel	.05	.05	.05	.126
14 test piles	75.00	100.00	150.00	143.00
Borings (lump sum)	900.00	500.00	1,200.00	1,500.00
Fenders (lump sum)	7,500.00	5,000.00	4,500.00	7,000.00
500 ton riprap	5.00	5.00	4.00	8.70
Totals	$155,050	$185,484	$193,785	$250,985
SUPERSTRUCTURE				
2,720,000 lb. span and tower metal	$0.0647	$0.0717	$0.0822	$0.0827
370,000 lb. trestle metal	.0465	.0497	.044	.0551
125,000 lb. handrails	.0542	.0574	.0475	.0714
90,000 lb. sheaves, shafts and bearings	.187	.2015	.223	.21
30,000 lb. operating machinery	.380	.229	.223	.404
48,000 lb. wire ropes	.22	.20	.1955	.21
75,000 lb. balance chains	.08	.0735	.05	.147
Motors and electrical equipment (lump sum)	14,500.00	11,000.00	9,230.00	16,275.00
Gates and warning signals (lump sum)	2,650.00	4,350.00	4,355.00	3,100.00
Gas engine and accessories (lump sum)	2,100.00	1,700.00	1,590.00	1,680.00
825 cu.yd. concrete	23.00	24.00	40.00	31.00
125 cu.yd. haydite concrete	32.00	43.25	50.00	44.00
3,500 sq.yd. asphalt concrete pavement	1.43	1.80	1.60	1.50
3,500 sq.yd. bitulithic pavement	1.43	1.55	1.44	1.50
350 cu.yd. concrete in counterweight	25.00	29.75	37.40	39.00
150,000 lb. reinforcing steel	.05	.049	.0575	.055
Machinery house (lump sum)	2,500.00	3,000.00	2,700.00	2,470.00
Roadway lighting system (lump sum)	4,800.00	3,000.00	2,600.00	6,000.00
Totals	$315,534	$332,149	$372,175	$394,851

Engineering News-Record, Issue of August 25, 1927

Retaining Walls—Cedar Rapids, Iowa

Bids were opened by City, May 26, for reinforced concrete retaining walls along east bank of Cedar River between First and Third Aves., from (A) Cedar Rapids Construction Co., Cedar Rapids; (B) Allied Contractors, Omaha, Neb.; (C) A. A. Alexander, Des Moines; (D) Bland Engineering Co., Minneapolis, Minn.; (E) Wickham Bridge & Pipe Co., Council Bluffs; (F) J. W. Hopp Construction Co., Cedar Rapids. The unit bids are as follows:

	A	B	C	D	E	F
1,924 cu.yd. footing excavation	$3.50	$6.63	$3.00	$4.80	$3.00	$5.50
4,756 cu.yd. dry excavation	2.50	1.02	1.00	2.40	3.00	2.00
5,734 lin.ft. timber piling	.65	.61	.75	.62	.80	1.20
1,314 cu.yd. Class A concrete	16.50	12.25	19.00	15.00	16.00	19.80
1,068 cu.yd. Class B concrete	13.00	19.90	20.00	22.75	19.40	15.50
264,321 lb. reinforcing steel	.045	.0443	.04	.0409	.05	.05
13,900 sq.ft. surface finish	.08	.062	.10	.08	.10	.10
640 lin.ft. concrete handrail	3.00	3.06	3.00	6.45	3.75	5.45
32,347 cu.ft. brick buildings, stone and concrete walls to remove	.25	.38	.40	.41	.50	.47
Electric light posts, conduit and wiring (lump sum)	680.00	510.00	750.00	675.00	800.00	820.00
Alternate bid for surface finish and iron composition waterproofing, 27,000 sq.ft.	.125	.14	.15	.13	....	.1258
Totals	$81,529	$85,786	$88,726	$98,200	$100,350	$103,663
Totals (alternate)	$83,892	$88,816	$91,506	$100,701	....	$105,817

Engineering News-Record, Issue of August 25, 1927

UNIT PRICES *Continued on page 104a*

Increase the *Life and Serviceability* of Your Concrete Floors!

GRINDING use will wear down and break the surface of the best concrete floors *unless they are specially hardened.*

In selecting a hardener it is wise to consider its reputation for service. Lapidolith is the original concrete floor hardener. It was widely used for years before the "just as good" imitations appeared on the market. When you treat your floors with Lapidolith you can be certain of satisfactory results.

Not only is the reputation of this product your guarantee of lasting protection, but you have an additional safeguard in the standing of the concern behind it. Any architect or builder knows the worth of Sonneborn products.

Lapidolith can be applied by your own workmen for it goes on the floor like water. If desired, our own service crew will apply it.

This liquid, chemical compound penetrates cement pores, arresting the wear on old floors and preventing any wear on new ones. Makes floors hard for a life-time.

In your own city we can show you floors that are Lapidolith-treated so you can see for yourself how it protects and saves.

The coupon below will bring you literature and samples.

LAPIDOLITH
TRADE MARK

L. SONNEBORN SONS, Inc.
114 Fifth Avenue, New York

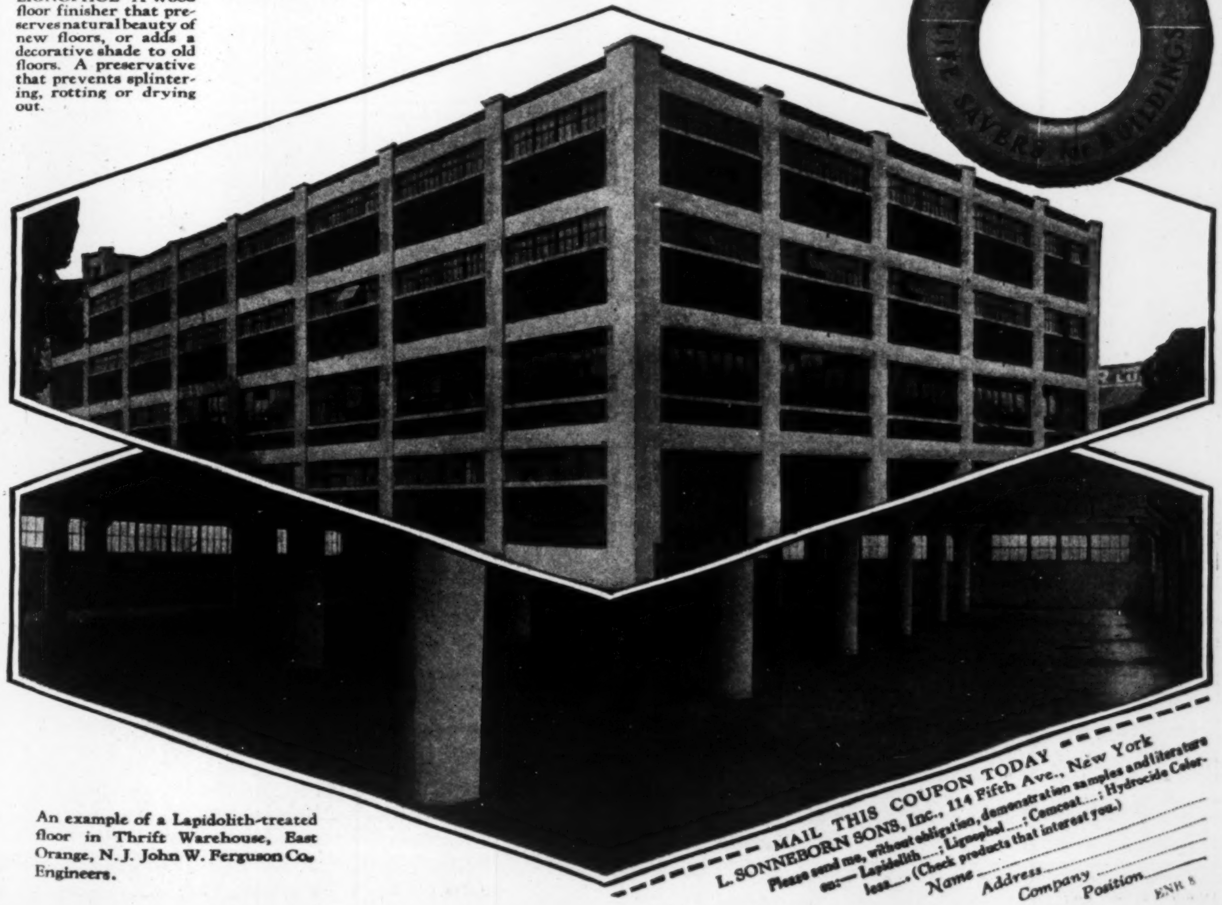
SONNEBORN
LIFE SAVERS for BUILDINGS

Other Sonneborn *Life-Savers* for Buildings

HYDROCIDE—A complete line of water and damp-proofing products for walls, copings, foundations.

LIGNOPHOL—A wood floor finisher that preserves natural beauty of new floors, or adds a decorative shade to old floors. A preservative that prevents splintering, rotting or drying out.

CEMCOAT—A white paint that stays white longer than similar paints. Can be washed over endlessly. Adheres to brick or concrete as easily as to wood.



An example of a Lapidolith-treated floor in Thrift Warehouse, East Orange, N. J. John W. Ferguson Co., Engineers.

MAIL THIS COUPON TODAY
L. SONNEBORN SONS, Inc., 114 Fifth Ave., New York
Please send me, without obligation, demonstration samples and literature on:—Lapidolith....; Lignophol....; Cemcoat....; Hydrocide Colorless..... (Check products that interest you.)
Name
Address
Company
Position
ENR 8

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Paving—Philadelphia, Penn.

Bids were opened by Bureau of Highways, Dept. of Public Works, June 7, for Schedule A, improvement of Frankford Ave. from Bridge to Longshore Sts., from (A) Union Paving Co., 30th and Locust Sts., (awarded contract); (B) Eastern Asphalt Co., Pennsylvania Bldg.; (C) Municipal Paving Co., 702 Catherine St.; (D) Barber Asphalt Co., 30th and Race Sts. The unit bids are as follows:

	A	B	C	D
42,632 cu.yd. grading calculated to establish subgrade (cut 39,155, fill 42,632 cu.yd.) approximately 5,000 cu.yd. road metal to be placed in streets designated	$1.25	$1.03	$0.94	$0.99
4,954 cu.yd. furnishing and laying portland cement concrete base	9.00	9.00	8.37	8.18
3,775 sq.yd. asphalt pavement, 1-in. binder and 1½-in. surface courses	1.51	1.48	1.57	1.55
15,300 sq.yd. asphalt pavement, 1-in. surface course between railway tracks	.87	.85	1.32	1.08
2,244 tons broken stone subbase under ties, 1-3-in.	3.10	2.95	3.79	3.46
1,366 cu.yd. grading for slag sub-base (cut 1,366, fill 878 cu.yd.)	1.00	1.40	.83	.95
37,884 sq.yd. 5-in. broken stone base	.90	.94	1.03	1.02
37,884 sq.yd. 2-in. asphaltic concrete pavement	1.23	1.24	1.40	1.48
1,907 sq.yd. cutting and laying redressed granite block pavement, including cement sand bed and cement grout joint filler	1.90	2.17	1.80	2.23
223 sq.yd. smooth dressed granite block pavement including mortar bed and cement grout joint filler	6.00	5.90	6.50	5.92
1,240 sq.yd. portland cement concrete gutter pavement	1.95	2.75	2.48	3.00
518 sq.yd. vitrified block gutter pavement, including cement sand bed, cement grout filler and bituminous expansion joints	2.38	2.65	2.49	2.65
15 sq.yd. adjusting existing asphalt roadway pavement	1.65	1.50	1.50	1.55
60 sq.yd. asphalt adjustment to existing macadam roadway pavement	1.00	1.50	1.50	1.55
15 sq.yd. adjusting existing vitr. block roadway pavement	.50	.50	1.00	.75
15 sq.yd. adjusting existing redressed granite block roadway pavement, including cement grout joint filler	1.00	1.00	1.00	1.00
9,960 lin.ft. filling rail channel with cement mortar	.02	.03	.02	.04
8 No. 2 brick and stone inlets, including 3 ft. 15-in. vitr. clay pipe and excavation	150.00	193.00	170.00	190.00
9 constructing No. 3 brick and stone inlets including 3-ft. 12-in. vitr. clay pipe and excavation	140.00	185.00	160.00	170.00
2 reconstructing No. 2 brick and stone inlets, using new castings, including 3-ft. 15-in. vitr. clay pipe	140.00	185.00	150.00	180.00
65 lin.ft. furnishing and placing 24-in. vitr. clay pipe, including excav. and backfilling	3.15	6.55	4.00	12.00
285 lin.ft. furnishing and placing 15-in. vitr. clay pipe, including excav. and backfilling	1.85	3.80	3.00	3.50
280 lin.ft. furnishing and placing 12-in. vitr. clay pipe, including excav. and backfilling	1.60	3.00	2.60	3.00
515 lin.ft. furnishing and placing 6-in. vitr. clay pipe, including excav. and backfilling	1.35	2.00	.72	1.50
2 conc. water valve boxes (Bureau of Water Standard) including frames and covers	35.00	35.00	35.00	36.00
90 lin.ft. 3-ft. 6-in. diam. brick sewer, including excav. and backfilling	11.00	20.00	22.00	18.00
75 sq.yd. cement conc. footway pavement, including cinder sub-base	2.10	2.75	3.00	2.00
120 lin.ft. 8-in. straight granite curbing	2.70	3.00	4.20	4.00
313 lin.ft. 8-in. curved granite curbing	3.90	4.00	3.80	5.00
13,875 lin.ft. 8-in. straight unarmored 1:2:4 cement conc. curbing	.75	.85	.78	.90
1,185 lin.ft. 8-in. curved unarmored 1:2:4 cement conc. curbing	.95	.95	.88	1.00
55 lin.ft. resetting straight curbing, any kind or size	.40	.50	.50	.50
28 lin.ft. resetting curved curbing, any kind or size	.50	1.00	.50	.60
44,000 hauling old granite block 1 mi. or fractional part thereof, including loading	3.50	3.00	7.00	6.00
44,000 hauling old granite block each additional mile	2.50	2.00	3.00	2.25
2 cu.yd. furnishing and placing brick masonry, including excav	18.00	25.00	20.00	12.00
6 cu.yd. furnishing and placing rubble masonry, including excav	12.00	18.00	10.00	15.00
700 lin.ft. furnishing and laying 12-in. c.i. pipe (Bureau of Water Standard) including excavation and backfilling	3.35	4.60	3.00	3.25
800 lin.ft. furnishing and placing 6-in. c.i. pipe (Bureau of Water Standard) including excavation and backfilling	1.75	2.50	1.80	1.65
2,600 lin.ft. furnishing and placing 8-in. c.i. pipe (Bureau of Water Standard) including excavating and backfilling	2.20	2.50	2.37	2.10
12 ton furnishing and placing specials (Bureau of Water Standard) including excav. and backfilling	160.00	155.00	100.00	155.00
9 8-in. valves (Bureau of Water Standard) including excav. and backfilling	45.00	40.00	70.00	40.00
1 12-in. valve (Bureau of Water Standard) including excav. and backfilling	75.00	70.00	100.00	70.00
10 conc. water valve boxes (Bureau of Water Standard) including frames and covers	35.00	35.00	35.00	36.00
Totals	$246.354	$247.254	$252,658	$256,668

Engineering News-Record, issue of August 25, 1927

Itemized building costs on a club house in Ohio are presented on page 227 of the Business Side of Construction, in this issue. If you have some costs that would be interesting to other engineers, please send them to the Editor.

Wood blocks in Boston at $62.81 per M. for 45 M.

$6 *per sq.yd for asphalt* resurfacing 27,980 sq.yd in Syracuse, N. Y.

$4.80 *per yd. for granite* blocks on concrete repaving for 1709x69 ft. of Broad St., Philadelphia.

Deep wells in Bedford, Mass., at $6 per lin.ft. for depth exceeding 300 ft. but not 450 ft.; for 300 ft. well, $7.

$17.50 *per lin.ft. tunnel* 2,000x8x10 ft., in Vancouver.

Pipe line in Texas, 150 mi. of 15-in. main is estimated to cost $12,000.

Constr. News page 104a

CONSTRUCTION NEWS

Some of the Week's Large Projects

Among the announcements for the current week are the following:

Proposed Work

Tunnel, Michigan and Ontario, Detroit River Subways Co., making plans, $10,000,000.

Hotel and store, Chicago, Ill., Allied Building Corp., having plans prepared and takes bids about Sept. 23, $1,000,000.

Office, Birmingham, Mich., J. Couzens, having sketches made, $1,000,000.

Power plant, Rochester, N. Y., Rochester Lake Ontario Water Co., having plans prepared, $1,000,000.

Church, Wash., D. C., Allen & Collins, archts., takes bids about Sept. 1, for Universalist Nat'l Memorial Church, $1,000,000.

Factory, Mississippi and Tennessee, Kraft Cheese Co., plans, $1,000,000.

Bids Desired

Y.M.C.A., Philadelphia, Pa., Sept. 12, by L. E. Jallade, archt., $1,500,00.

Office, Philadelphia, Pa., Sept. 9, by R. B. Bencker, archt., for N. W. Ayer & Son, $1,000,000.

Contracts Awarded

Factory, Old Hickory, Tenn., Dupont Rayon Co., will build by day labor, $4,000,000.

Mercantile and office, San Antonio, Tex., Smith Bros. Properties, Inc., to McKenzie Constr. Co., $1,500,000.

Club, Washington, D. C., Queensbury Building, to Miller Engr. Co., archts., est., $1,250,000.

News of the Week

Waterworks

Proposed Work

N. C., Raleigh—Making plans concrete settling basin. $50,000. C. C. Page, city comr.

N. C., Wilson—See "Sewers."

Miss., Magee—Making preliminary plans complete waterworks and distribution system, also sewers in various streets. $75,000. M. L. Culley, 1st Natl. Bank Bldg., Jackson, engr.

O., Barberton—Bd. Control takes bids about Oct. 17, mains in various streets. $75,000.

O., Columbus—B. A. Young, asst. clk. Bd. Comrs. Franklin Co. soon takes bids 7,845 ft. 8 in. and 860 ft. 6 in. c.i. mains, etc., in Sewer Dist. Marion 1, Impvt. 90, Marion Twp. $15,000. E. G. Bradbury, Court House Annex, co. engr.

Ill., Columbia — Making preliminary plans complete waterworks and distribution system. $75,000. W. A. Fuller Co., 1912 Railway Exch. Bldg., St. Louis, Mo. engrs.

Ill., Waverly—Making preliminary plans complete waterworks and distribution system. $50,000. W. A. Fuller Co., 1912 Railway Exch. Bldg., St. Louis, Mo., engrs.

S. D., Huron—City, M. F. Walt, aud., making plans filtration plant addition, incl. equipment. $75,000. L. P. Wolff, 900 Globe Bldg., St.. Paul, Minn., engr.

Tex., Devine—City plans 50,000 gal. elevated tank and 100,000 gal. earth reservoir. $50,000.

Okla., Chickasha—Voted $90,000 bonds, extending mains in various streets. R. O. Bradley, Chickasha engr. Noted Feb. 17.

Okla., Fairfax—Made preliminary plans extending 6,500 lin.ft. 6 and 8 in. mains in Donelson Addition. $15,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Fairview — Voted $38,500 bonds, 20,700 ft. 6 and 8 in. mains in various streets. J. Francis, Fairview, engr.

Okla., Wewoka—Voted $125,000 bonds, new gravity type filter plant, 3 motor driven centrifugal pumps, main extensions, etc. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Calif., Santa Ana—E. L. Vegely, city clk., making plans mains in South Bway., South Main and South Burch Sts., etc. $25,000 or more.

Bids Desired

R. I., Providence—Sept. 12, by Bd. Contr. & Supply, City Hall, pumping station, on Bath St. $30,000. Thomas J. Hill Pierce, City Hall, engr.

N. Y., New York — Sept. 6, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Beach, Cromwell, Fowler, Grosvenor, Harper, Harrods Sts., etc., Bronx Boro.

Pa., Allentown—Sept. 27, by M. W. Gross, mayor, 301 Central Fire & Police Station, low lift pumping equipment and piping for Dept. Parks & Pub. Property, Bureau of Water. Morris Knowles, Inc., 507 Westinghouse Bldg., Pittsburgh, engrs.; adv. E. N.-R. Sept. 1.

S. C., Lancaster — Sept. 27, by Comrs. Pub. Wks., complete filter plant, 1 m.g.p.d. 9,700 lin.ft. 6- to 12-in. c.i. pipe, one 1,000 g.p.m. electrically driven centrifugal pump, also 150,000 or 200,000 gal. steel tank and tower. H. S. Jaudon Eng. Co., Lancaster, engrs.

La., Monroe—Sept. 21, by City Comrs., Town Hall, improving waterworks, Contrs. 1 to 7 (inclusive). Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs.; adv. E. N.-R. Sept. 1. Noted Aug. 11.

La., Shreveport—Taking bids probably in October, sewers draining into Red River, pumping station, also water mains in west side $200,000. Private plants. Noted Mar. 24.

These reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

O., Cleveland—Sept. 2, by City, mains in West 12th St., Irving Pl., South Hills Dr., Flamingo, Garwood, Mayview, Plymouth and Redding Aves. To exceed $25,000. R. Hoffman, City Hall, engr.

Ill., Niles Center — Sept. 6, by Village, Laramie-Brummel Water Mains, incl. 6- to 12-in. c.i. pipe, etc. $26,700. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs.

Neb., Comstock—Sept. 8, by C. D. Wardrobe, city clk., 40,000 or 50,000 gal. tank on 100 ft. to balcony tower, erected on foundations; 11,184 ft. 4- to 8-in. Class B, McWane open bell, De Lavaud Class 120, or Mono Class 150 c.i. pipe; approximately 4.5 tons c.i. specials f.o.b. Comstock, 23 hydrants, etc. Henningson Eng. Co., Natl. Bldg., Omaha, engrs.

Neb., Union—Sept. 12, by C. B. Smith, village clk., 40,000 or 50,000 gal. tank on 90 ft. tower, 6,864 ft. 4- to 8-in. Class B, DeLavaud Class 150 or Mono Class 150 c.i. pipe, approximately 2.5 tons c.i. specials f.o.b. Union, one 8 in. or 10 in. tubular well 125 ft. deep, 12 ft. strainer, etc. To exceed $15,000. Henningson Eng. Co., Natl. Bank Bldg., Omaha, engrs. Noted June 30.

B. C., Vancouver — See "Contracts Awarded."

Contracts Awarded

Conn., Hartford—Bd. City Water Comrs., Municipal Bldg., laying 3 mi. 30 in. mains in various streets, to Lock Joint Pipe Co., Ampere, N. J., $153,375; c.i. pipe, to R. D. Wood & Co., 514 Walnut St., Phila., Pa., $6,280; c.i. pipe, to Amer. Cast Iron Pipe Co., Acipico St., Birmingham, Ala., $5,686; valves, to Ludlow Valve Mfg. Co., Troy, N. Y., $2,599; special castings, to United Cast Iron and Fdry. Co., $4,244; also wrought iron pipe, to Cohoes Rolling Mill Co., Cohoes, N. Y., $2,338. Grand total $174,522. Noted July 28.

N. Y., Poughkeepsie — Bd. Pub. Wks., Eastman Park Mansion, rein.-con. structure, and placing pipe, valves, strainers, etc., for additional scrubbers, Poughkeepsie Waterworks, to W. W. Kingston, 1 Washington St. Noted July 21.

N. J., Belmar—Mains in Rhode Island Point Sect., to W. G. Fritz Co., 69 Main St., West Orange, $23,630. Noted Aug. 18.

O., Dayton—Montgomery Co., 25,270 ft. 4- to 12-in. c.i. mains, etc. in H. McKinley Water Supply System, to F. Krumholtz, 1020 Superior Ave., $52,816.

Ill., Monmouth—City, 120 x 70 x 12 ft. rein.-con. storage reservoir, to H. C. Holmes, Macomb, $19,967. Engrs. est. $20,000. Noted July 28.

Ill., Niles Center—Waterworks improvements, incl. hydrants, valves, basins, 6 and 8 in. c.i. pipe, etc., in various streets, to N. Santucci, Niles Center, $36,698; and 22,500 ft. 1 in. water service pipe, etc., to O'Brien Bros., 152 North Central Ave., Chicago, $21,813.

Ill., Villa Park—Waterworks supply, to S. B. Geiger & Co., 1435 Old Colony Bldg., Chicago, $80,000.

Wis., Waunakee—M. Helt, city clk., waterworks, to Camden Constr. Co., Minneapolis, Minn., $18,509; and drilling 12 in. well, to Gray Well Drilling Co. 209 3rd St. Milwaukee. Engrs. est. $20,000.

Kan., Topeka—Extending 43,082 ft. 4- to 10-in. c.i. mains, etc. in various streets, to C. B. Ramsey, 931 North Main St., $73,030.

Ark., Springdale—For 14,000 ft. 8 in. McWane pre-caulked pipe, and 1 m.g. filtration plant, to Rowan & Rickard, Harrison, at $0.34½ per ft. and $11,595 respectively; two 350 g.p.m. low stage pumps with motors, one 350 g.p.m. turbine pump and 45 h.p. electric motor, to Fairbanks-Morse & Co., 900 South Wabash Ave., Chicago, Ill. $1,783; also filter plant equipment, to Roberts Filter Co., Darby, Pa., $7,750. Noted Aug. 11.

Tex., Odessa — Improving waterworks, 100,000 gal. tank and tower, to Chicago Bridge & Iron Wks., and 40,000 ft. c.i. pipe, to Central Fdry. Co., both Praetorian Bldg., Dallas.

Wash., Chehalis—For 5 m.g. concrete reservoir, to Graham Bros. & Medley, Chehalis, $65,001. Engrs. est. $75,000. Noted May 19.

B. C., Vancouver—Greater Vancouver Water Dist. Bd., will excavate (1st unit) 30,000 cu.yd. for storage reservoir, at Van-

See proposal advertising on page 141

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Even under the most rigorous conditions of service Leadite proves its efficiency

—where a line is subjected to constant vibration the joints must be tight and remain tight

In installing the 12" bell and spigot bridge line illustrated here the element of constant vibration was a serious consideration.

Leadite was used for jointing and has given perfect satisfaction throughout the 5½ years since this Bridge Line was installed—working pressure approximately 105 lbs. per sq. in.

This water department has laid many miles of cast iron water mains with Leadite joints—sizes 6" to 30"—pressures ranging from 40 pounds to 170 pounds per square inch. They say their experience with Leadite has been extremely satisfactory. Their experience with Leadite extends over 20 years.

The ease with which Leadite can be used is another consideration with waterworks engineers in making their specifications for unusual and difficult installations, as well as for general work.

The speed of jointing with Leadite is of great importance to Contractors in helping them complete their work promptly. From experience they know how much time they can save by using Leadite.

Everywhere waterworks engineers specify and use Leadite for the satisfaction it gives, its safety, security and economy.

Twelve-inch c. i. bell and spigot water main —Bridge Line—over 500 feet long—subject to severe vibration—carrying approximately 105 lbs. pressure per square inch.

Specify and use
LEADITE
It saves at least 75%

Be sure it is
LEADITE
and accept no imitations

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

couver Heights, by day labor. $125,000. Total $650,000. E. A. Cleveland, 500 Beatty St., engr.

Sewers

Proposed Work

Pa., Laurelton—Laurelton State Village plans sewage disposal plant. G. S. Idell, 1510 Chestnut St., Phila., engr.

N. C., Wilson—Plans approximately 24,000 ft. sewer and 16,000 ft. waterworks extensions. R. D. Gladding, Wilson, engr.

Miss., Magee—See "Waterworks."

O., Kenmore — Bd. Control takes bids about Sept. 17, approximately 36 in. sewers in Foust Rd., 4th St., 16th Ave. and Kenmore Blvd.

O., Marion—Bd. Control plans extending and constructing new sewers in various streets. $800,000.

O., New Boston (sta. Portsmouth)—Made plans 4,550 ft. 18 and 20 in. vitr. sewer in North Moreland St., $27,000; also main sewer outlet, 1,035 ft. 66 in. double ring brick pipe, $39,000. J. D. Wilson, 1417 Grandview Ave., Portsmouth, engr.

Ill., Columbia — Making preliminary plans complete sewerage system, incl. sewage disposal plant. $75,000. W. A. Fuller Co., 1912 Railway Exch. Bldg., St. Louis, Mo., engrs.

Ill., Waverly—Making preliminary plans complete sanitary sewerage system, incl. disposal plant. $50,000. W. A. Fuller Co., 1912 Railway Exch. Bldg., St. Louis, Mo., engrs.

Wis., Milwaukee—Metropolitan Sewerage Comn., 508 Market St., made plans 5,286 ft. 15 and 18 in. vitr. clay main sewer through Washington Highlands. $50,000. R. Cramer, 508 Market St., ch. engr.

Minn., Perham—A. W. Lotterer, city clk., making plans combined sewerage system. $80,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs.

Neb., Fremont—Soon. takes bids storm sewers, etc. in various streets. $200,000. Burns & McDonnell Eng. Co., 401 Interstate Bldg., Kansas City, Mo., engrs. Noted June 23.

Neb., Prague—Making preliminary plans 8- to 12-in. sewers in various streets, and sewage disposal plant. $25,000. Henningsom Eng. Co., Natl. Bank Bldg., Omaha, engrs.

Okla., Wewoka — Voted $60,000 bonds, sewers in various streets. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Shawnee—Made preliminary plans 16,000 ft. 8- to 12-in. vitr. clay sewers in Belmont Addition. $36,000. F. D. Brown, Shawnee, engr.

Calif., San Mateo—Made plans 11,960 ft. 4- to 10-in. vitr. sewer in portions South B St. ,Tulip Ave., etc. O. F. Weissgerber, city engr.

Bids Desired

Mass., Salem—Sept. 7, by South Essex Sewerage Bd. Fort Ave., Sect. 7 of Trunk Sewer 4,150 lin.ft., 30 x 42 and 33 x 34 in. concrete sewer, in Beverly and Danvers. Private plans.

Mass., Wellesley—Taking bids sewers in various streets. $60,000 appropriated. Private plans. Noted Mar. 31.

Mass., West Roxbury (br. Boston) — Sept. 2, by Dept. Pub. Wks., Boston, sewerage works in Nikisch Ave., Stimson, Grove and Birchwood Sts., here. $25,000. J. H. Sullivan, comr.

N. Y., Long Island City—Sept. 6, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewer in Roosevelt Ave. from 79th (22nd) to 84th (27th) Sts.

N. J., Hammonton—Sept. 12, at Town Hall, W. R. Seely, clk., approximately 2,831 lin.ft. storm sewer, etc. in various streets. J. A. Baker, engr.; adv. E. N.-R. Sept. 1.

Ia., Marshalltown—Sept. 7, by A. McMahon, city clk., City Hall, 16,524 ft. 15- to 48-ft. vitr. clay, concrete or segmental block sewers in Dists. 1, 2, 7, 8, 9 and 10. Noted Aug. 25.

Mo., St. Louis—Sept. 20, by Bd. Pub. Serv., 208 City Hall, constructing Highland Joint Sewer, 5,970 ft. 12- to 66-in. vitr. clay, brick or segmental block pipe, etc., $66,000; and Arloe Sewer Dist. 5, 3,060 ft. 8- to 42-in. pipe, $9,200. W. W. Horner, 300 City Hall, engr.

Ark., Conway—Sept. 8, by W. D. Cole, chn. comn., 17,180 ft. 8- to 12-in. vitr. clay and 18,343 ft. 12- to 18-in. c.i. sewers, etc. in Impvt. Dist. 2. W. L. Winters, Fort Smith, engr. Noted July 14.

Calif., Fullerton—F. C. Hezmalhalch, city clk., taking bids 2 mi. 12 in. vitr. or concrete sewer in West Commonwealth Ave., etc. C. M. Thorpe, city engr.

Ont., Stamford—Sept. 2, by M. F. Ker, engr., Niagara Falls, 4 mi. 9- to 33-in. vitr. tile and concrete sewers in various streets, here. $100,000.

Bids Received

Mich., Detroit—Dept. Pub. Wks., Fisher Ave. Storm Sewer in Fisher Ave. and Memorial Park, from Lennane & McIlvenna, 7777 West Chicago Blvd., $579,979; and Connors-State Fair Arm, Connors Creek Sewer, from Central Contg. & Eng. Co., 17576 Wyoming Ave., $195,327.

Contracts Awarded

Conn., Mansfield — Trustees Mansfield Training School, sewers, sludge and filter beds, also concrete tank, to L. Suzio Constr. Co., State and Brooks Sts., Meriden, for State. $55,529. Noted July 28.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., regulator chamber, incl. automatic regulator, repairing and cleaning overflow chamber at Rust St. and Clark Ave., etc., to Moore Eng. & Contg. Co., 1 Bridge Plaza North, $11,660. Noted July 21.

N. Y., Rye — Westchester Co. Sanitary Sewer Comn., 192 Martine Ave., White Plains, contracts for construction Sects. A, B, C, D and E, comprising Blind Brook Sewer Project, have been signed as follows: Sect. A, to A. Di Marco, Park Ave., White Plains, $30,437; Sect. B, to Merritt, Chapman & Scott, 17 Battery Pl., New York City, $273,000; Sect. C, to Shevlin Eng. Co., Maspeth; and Sects. D and E, to H. L. O'Dell, Rye, $4,786 and $726 respectively. Noted July 21.

N. J., Bridgeton—C. P. Corey, city clk., City Hall, new sewage disposal plant, here, to Mazzolan & Marano, 739 South 7th St., Phila., Pa., $280,000. Noted July 2.

N. J., Teaneck (mail West Englewood) —Tw~ Comn., Municipal Bldg., Teaneck Rd., 10,000 ft. 8- to 12-in. sewers in various streets, Contr. Y, to J. Cestone, Montclair. Noted July 21.

Md., Baltimore—Bd. Awards, 2,460 ft. 12 ft. 1 in. x 15 ft. 8 in. brick and concrete arch drain, 4,068 ft. 18 and 21 in. vitr. sewer, 4,060 lin.ft. 4- to 8-in. underdrain, etc., in Sewer Dists. 3 and 48, Contr. 209, to Catalano & Percora, Oldtown Natl. Bank Bldg., $135,669.

O., Columbus—O. Moore, clk. Franklin Co., Minerva Lake Sanitary Sewerage Disposal Plant, 27,590 ft. 8- to 20-in. vitr. clay pipe, etc., in Mifflin Twp., to H. B. Watters & Co., 180 North High St., $57,791. Noted July 21.

O., Dayton — Montgomery Co., Court House, 21,893 lin.ft. 8 and 10 in. vitr. sewers, etc. in McKinley Sanitary Sewer Dist. Sect. B, to V. Smith, 209 South Perry St., Dayton, $44,352.

O., Parma (br. Cleveland) — Sewers in Group "J," to Langenhan Constr. Co., Marshall Bldg., Cleveland, $44,200.

Ill., Niles Center—For 12 in. sewers in various streets, to N. Santucci, Niles Center, $17,195; and 17,730 ft. 8 in. vitr. sewers in various streets, to P. J. Collins, Chicago, $19,525.

Wis., Milwaukee—Sanitary sewers in Ames Terrace, Silver Spring Rd., Como Pl., Ralph Ave., etc., to H. T. Teget, Webster City, Ia.

Wis., Waunakee—Sewerage system, to J. D. Bernadi, Sault Sainte Marie, Mich., $24,710. Engrs. est. $25,000.

Mo., Springfield—Sewer in Dist. 12, Sect. 6, to R. L. Langston, R.R. 3, $23,112.

Ark., Pine Bluff — Complete sewerage system, in Sewer & Water Dist. 2, to J. R. McNulty, 2121 Cherry St., $29,500. Noted June 23.

Tex., Galveston—Main trunk sewer, etc., in 47th St. between Avenues U and J, and 46th St. between Avenue J and outfall at Slip C, to W. A. Kelso, 2215½ B St., $74,486. Noted Aug. 25.

Okla., Oklahoma City—For 14,000 ft. 8 and 10 in. lateral sewers in Sunrise Addition, to H. M. House, 1206 West Main St., $24,945. Engrs. est. $27,000.

Calif., Los Angeles — Los Angeles Co. Sanitation Dist. 1, for Mt. View-Belle View Vernon trunk sewer, to Bebek & Brkich, 425 West 78th St., $45,405; also Bullis Road-Temple St. trunk sewer, to Dalmatin & Nikcevich, 1105 West E St., Wilmington, $36,275.

Calif., Los Angeles—Main sewer, house connections, etc. in Fox Hills Dr. between Missouri and Lauriston Aves., to J. Chutukk Wilcox Bldg., $40,845; also sanitary sewer in Keswick Ave. between Fox Hill Dr. and Beverly Glen Blvd., to L. Miletich, 610 West 54th St., $37,225.

Calif., Redwood City — Vitr. sewers in southern section city, to R. B. McNair, 3819 Rhoda Ave., Oakland, $69,425.

Calif., Sacramento—Sewerage system in Sect. 2-A, to J. E. Tempest, 1450 44th St., $154,533; also in Sect. 2-B, to Pollock & Gould, Forum Bldg., $154,383.

Calif., Los Angeles—Sewer in Indiana St. between 1st St. and Mines Ave., to P. J. Akmadzich, 320 Wilcox Bldg., $221,178 engrs. est. $301,427; also in 105th Ave. between Figueroa and Vermont Aves., to J. Chutuk, 343 Wilcox Bldg., $43,400 engrs. est. $52,241. Noted May 19.

Bridges

Proposed Work

Miss., Aberdeen—Monroe Co. plans rein.-con. and steel bridge across Tombigbee River, $60,000.

O., Canton—Stark Co. plans new concrete bridge, 12th St. N.W. $50,000. A. M. Wise, Canton, engr.

O., Dresden—Muskingum Co. (Zanesville) —plans 150 ft. steel and concrete bridge over Wakatonik Creek, here. $35,000. A. Connor, Zanesville, engr. State appropriates toward cost.

Oklahoma—State Hy. Dept., Oklahoma City, making preliminary plans 1 span 116 ft. steel truss bridge on piers over Cooper Creek, near Stillwater, Payne Co., $45,000; and 1 span 96 ft. steel truss bridge on piers over Brush Creek near Yale, Payne Co., $35,000, both on Highway 1. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Okla., Hinton—Caddo Co. making preliminary plans 1 span 80 ft. steel truss bridge on piers over Piney Creek, near here. $35,000. C. Riggins, Anadarko, engr.

Okla., Tulsa—Making preliminary plans 1 span 88 ft. viaduct, over Midland Valley R.R. tracks, on Woodward Blvd. in South Tulsa. $42,000. C. Schultz, City Hall, engr.

Calif., Stockton—San Joaquin Co. making plans 750 ft. steel and rein.-con. bridge, 20 ft. roadway. $35,000. F. E. Smith, Stockton, co. surv.

Ont., Walkerville—Making plans new steel and concrete bridge over railway tracks, on Sandwich St. $100,000. H. W. Patterson, Imperial Bldg., engr.

Bids Desired

Rhode Island—Sept. 14, at office Washington Bridge Comn., A. L. Atwood, chn., Providence, Washington Bridge over Seekonk River between Providence and East Providence; adv. E. N.-R. Sept. 1.

N. Y., St. George — Sept. 7, by J. A. Lynch, pres. Richmond Boro, Boro Hall, constructing bridge at Arthur Kill Rd. south of South Richmond Valley Rd.

Maryland — Sept. 6, by State Roads Comn., Baltimore, rein.-con. arch bridge over Morgan Run, Contr. C1-71, Carroll Co., and one over Little Antieta Creek, Contr. W-50, Washington Co.; 3 bridges over Georges Creek, Contrs. A-49, A-50 and A-51, all in Allegany Co. J. N. Mackall, chn.; adv. E. N.-R. Sept. 1.

Fla., Sanford—See "Streets and Roads."

Ohio—Sept. 9, by G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, bridges in Adams, Allen, Ashland, Champaign, Columbiana, Hamilton,Muskingun, and Washington Counties.

Michigan—Sept. 3, by G. D. Tramp, resident engr., Crystal Falls, Bridge 1 of 66-6-2, Contrs. 1 and 2, one 75 ft. span, Ontonogan Co., for State Hy. Dept., Lansing. $27,000.

Michigan—Sept. 6 (extended date), at Genesee Co. Road Office, Flint, S. R. Bridge 1 of 25-7-23, Contr. 1, five 45 ft. steel deck girder span, T. L. Bridge 1 of 25-16-5, Contrs. 1 and 2, five 45 ft. spans, etc. R. W. Roberts, 504 Eddy Bldg., Saginaw, resident engr. Noted Aug. 26.

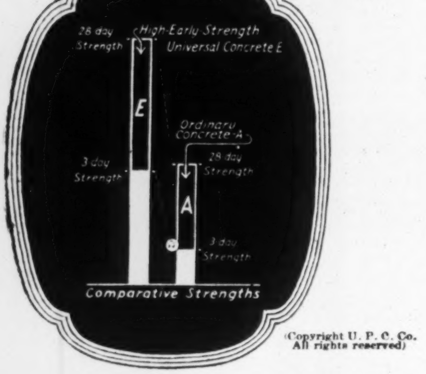
Michigan — Sept. 8, by C. L. Cowgill, resident engr., Plymouth, F. A. Bridge 2, Contrs. 1 and 2, two 50 ft. span, Macomb Co., for State Hy. Dept., Lansing.

Texas — Sept. 7, by State Hy. Comn., Austin, thirty-five 40½ ft. I-beam steel and three 40½ ft. I-beam concrete span bridge, 738,720 I-beam steel, 168,326 lb. reinforcing, 6,956 ft. concrete piling, etc., over Pease River on State Highway 5, Wilbarger Co. $165,000. J. B. Nabors, Vernon, engr.

Texas — Sept. 8, by State Hy. Comn., Austin, R. S. Sterling, chn., two 160 ft. steel spans and twelve 26 ft. rein.-con. girder spans approaches, incl. 380,000 lb. structural steel, 171,401 lb. reinforcing, 3,210 ft. 14 and 16 in. piling, etc., on San

Constr News page 106

When a Thousand Motorists Say "HURRY"



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WHEN you realize that repaving of a road cannot be delayed

—and you have visions of a thousand motorists a day inconvenienced by the detour

—and you wonder how you can answer their "Hurry" call without sacrificing the quality of the pavement

—use *High-Early-Strength Universal Concrete!*

Made with the *usual* materials, *usual* labor, *usual* equipment and standard Universal cement, this concrete has a *3-day* strength equal to the *28-day* strength of ordinary concrete.

Having a higher *ultimate* as well as a higher *early* strength, it also is *permanently* better and stronger than ordinary concrete as shown in the diagram.

For full details, send in the accompanying coupon.

Name……………………………………

Address……………………………………

UNIVERSAL PORTLAND CEMENT CO.
210 South La Salle Street, Chicago
Without obligation, please send me detailed information on methods of securing strong concrete in 3 days with the usual materials and equipment.

ENR 9-1-27

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Bridges (Continued)

Jauinta Rd., Highway 3, Harris Co. $145,000.

Okla., Lima—Sept. 7, by State Hy. Dept., Oklahoma City, 3 span 88 ft. rein.-con. trestle bridge, 78.04 tons I-beam steel, 38.37 tons reinforcing, 3,380 ft. wooden piling, etc., Semniole Co., here. $30,000. C. R. Mandigo, Capitol, Oklahoma City, engr.

Washington—See "Streets and Roads."

Contracts Awarded

Massachusetts — Dept. Pub. Wks., Boston, 2 rein.-con. bridges and approaches on highway in Bolton and Lancaster, to C. Quillan, Providence, R. I., $41,194; and steel bridge with gravel approaches in Huntington, to Adams & Ruxton Constr. Co., 1387 Main St., Springfield, $97,336. Noted Aug. 4 under "Streets and Roads."

Massachusetts—Metropolitan Dist. Comn., Boston, rein.-con. and stone bridge and approaches over Charles River, on Wales St. and Walnut St., in Newton and Wellesley, to C. & R. Constr. Co., 75 Brandeen St., Roslindale, $30,629; also grading for above, to J. H. Fannon, 39 Powder House Terrace, Somerville, $54,171.

New York—A. W. Brandt, comr. Highways, Albany **(R.C. means Repair Contract)**, constructing 38 ft. twin-span I-beam concrete bridge on R. C. 1641, Olean-Hinsdale-Cuba, Highway 5137, Cattaraugus Co., to Ryan Bros., Campo & Kennedy, Dansville, $22,707; 80 ft. concrete arch span bridge on Highway 8269, Star Lake-Cranberry Lake Rd., St. Lawrence Co., to A. C. Bailey, Phillipsburg, Pa., $30,641; 45 ft. I-beam span, bridge, penetration macadam approach etc. on Ogdensburg-Canton Part 2, Highway 733, R.C. 1634, and 4 concrete bridges, etc. on Winthrop-North Lawrence, Highway 5509, R.C. 1639, St. Lawrence Co., to Lord Coopy & Furnia, Inc., Rouses Point, $19,382 and $53,340 respectively; one 100 ft. plate girder and 30 ft. I-beam spans, etc. Potsdam-Nicholville, Highway 5285, R.C. 1638. St. Lawrence Co., to Saranec Eng. Co., Inc., Saranac Lake, $40,276; two 20 ft. concrete and one 32 ft. I-beam spans, etc. on Copenhagen-Lowville, Part 1, Highway 1020, and Part 2, Highway 847, R.C. 1635, Lewis Co., to Hyatt & Stockham, Battenville, $52,420; 120 ft. truss bridge and approach, on Vestal Rd., Highway 420, R.C. 1640, Broome Co., to Steward Sand & Gravel Corp., Binghamton, $54,008; 125 ft. truss bridge and approach, Gardenville-Williamsville Rd., R.C. 1733-A, Erie Co., to J. W. Cowper Co., Buffalo $53,511; and 100 ft. pony truss bridge, etc. on East Nassau-Brainard, Highway 439, R.C. 1637, Rensselaer Co., to Palette & Santos, Amsterdam, $47,771. Grand total $389,748. Noted July 28.

New Jersey and Pennsylvania — Joint Comn. for Elimination of Toll Bridges over Delaware River, State Bldg., Trenton, steel span bridge over Delaware River, from Trenton, N. J., to Morrisville, Pa., to S. S. Thompson, Red Bank, $469,610. Noted Aug. 18.

N. J., Matawan—State Hy. Comn., Trenton, 265 ft. concrete and steel bridge, on Route 4, Sect. 34A, Monmouth Co., here, to S. S. Thompson & Co., Red Bank, $340,444. Noted July 28.

Pennsylvania—State Hy. Comn., Harrisburg, 86 ft. span rein.-con. bridge and 1,788 ft. rein.-con. approaches, on Route 121, Huntingdon Co., to Concrete Steel Bridge Co., Clarksburg, W. Va., $39,061. Noted July 14 under "Streets and Roads."

Miss., Gulfport—Harrison Co., rein.-con. and steel bridge, incl. 638 ft. pile approach and 163 ft. overall swing span over Back Bay, at Popp Ferry, to Austin Bros. Bridge Co., Mickleberry St., Atlanta, Ga., $41,777.

Michigan—C. L. Cowgill, resident engr., Plymouth, Grade Separation X 1 of 47-6-1, Contr. 1, 3 span 108 ft., to Ann Arbor Constr. Co., Ann Arbor, State Hy. Dept., Lansing. $57,103. Noted Aug. 11.

Ill., Chicago—Cook Co. Hy. Dept., County Bldg., 4 concrete bridges, one at Grand Ave. and Des Plaines River, to Joliet Bridge & Constr. Co., Joliet, $34,930; one at 31st St. near Wolf Rd., to Davidson & Doctor, Orland, $49,216; one at Irving Park Blvd., to R. Mann, Rockford, $72,175; and other at Devon Ave., to Oltendorf Constr. Co., Palatine, $78,132. Grand total $234,453. Noted Mar. 31 and July 7.

Minn., New York Mills—Northern Pacific Ry. Co., Ry. Exch. Bldg., St. Paul, steel and concrete bridge separating tracks from highway, here, to Peppard & Fulton, 442 Metropolitan Bank Bldg., Minneapolis, approximately $40,000.

Kan., Ellsworth — See "Streets and Roads."

Kan., Erie—See "Streets and Roads."

Kan., Wamego—Clerk Waubaunsee Co. (Alma) and Pottawatomie Co. (Westmoreland), six 150 ft. span steel truss bridge, 20 ft., and 0.332 mi. grading, 28 ft., on Federal Aid Project 243-A, near here, to Western Bridge Co., Harrisonville, Mo., $128,565. Noted July 14.

Montana — State Hy. Comn., Helena **(F.A.P. means Federal Aid Project)**, to Yellowstone Constr. Co., Billings, constructing Lower Deer Creek Bridge, 25,200 lb. structural steel and 4,000 lb. reinforcing, etc. on Big Timber-Columbus Rd., F.A.P. 127-C, Unit 2, Sweet Grass Co. $5,873, Antelope Creek Bridge, 25,500 lb. structural steel and 4,200 lb. reinforcing, etc., on Forsyth-Miles City Rd., F.A.P. 135-A, Unit 2, Rosebud Co. $6,975, and Emigrant Creek Bridge, 17,000 lb. structural steel and 3,100 lb. reinforcing, etc., on Yellowstone Canyon Rd., F.A.P. 217-D, Unit 2, Park Co. $5,269; to McGuire & Blakeslee, 1st Natl. Bank Bldg., Great Falls, 6 timber tile bridges on Dupuyer-Birch Creek Rd. F.A.P. 236-A, Unit 2, Pondera Co., $14,101; and to J. F. Harrington, Missoula, 5 timber pile bridges on Poplar-Culbertson Rd., F.A.P. 240-A, Unit 2, Roosevelt Co., $10,039. Grand total $42,257.

Missouri — State Hy. Comn., Jefferson City, to Pittsburgh Des Moines Steel Co., Tuttle and South West 10th Sts., Des Moines, Ia., one 40 and two 35 ft. rein.-con. deck girder spans, etc., over Cuivre River, Audrain Co., $11,820; to O. O. Fuller, Nevada, one 40 ft. rein.-con. deck girder span, etc., over Pitite Saline, Cooper Co., $3,913; to J. P. Sparks, Kirkwood, three 30 ft. rein.-con. deck girder spans, etc., over Bobs Creek, Lincoln Co., $7,171; to Kelly & Underwood, Granby, two 4 ft. and four 6 ft. rein.-con. slab spans, etc., over creek, $3,631, three 40 ft. and two 35 ft. rein.-con. deck girder spans, etc., over Spring River, $12,658, and two 8 ft. span bridge over Dry Branch, $2,492, all Lawrence Co.; to E. P. Olson, St. Joseph, seven 20 ft. rein.-con. slab spans over Shannon Branch, Clinton Co., $6,791; to Davies Constr. Co., Boonville, two 12 ft. rein.-con. slab spans, etc., over creek, Audrain Co., $4,421; to J. J. Bailey, St. Louis, fourteen 20 ft. rein.-con. slab spans over Overflow Little Chariton River, $16,609, 90 ft. steel truss, two 25 ft. and two 30 ft. rein.-con. deck girder spans, etc., over Little Chariton River, $18,223, Chariton Co.; also to Cameron Joyce, Smith, Elder, Keokuk, Ia., two 12 ft. and two 20 ft. rein.-con. slab, and one 80 ft. steel truss spans, etc., over creek, Pike Co., $17,904. Grand total $105,633.

Arkansas—See "Streets and Roads."

Railways

Contracts Awarded

Missouri — Kansas City Pub. Serv. Co., 15th St. and Grand Ave., Kansas City, restoring 1,850 ft. elevated double track from end of tunnel to Mulberry and 9th Sts., in Kansas City, steel, to Kansas City Structural Steel Co., 21st St. and Metropolitan Ave., Kansas City; also erecting steel and foundation for same, to Wisconsin Bridge & Iron Co., 1302 Commerce Bldg., Kansas City. Engrs. est. $250,000.

Texas—Houston Port Comn., relaying rails and angle bars for railroad tracks in Port Yard on north side of Turning Basin, to J. W. Cain & Co., 2nd Natl. Bank Bldg., Houston, $20,319; ties and crossing timbers to Amer. Creosote Wks., 1305 Dublin St., New Orleans, La., $32,306; also laying railroad tracks to W. A. Smith, West Bldg., Houston, $47,629. Grand total $100,254. Noted Aug. 18.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

N. J., Asbury Park—A. G. King, city clk., plans repairing breakwater jetty near Deal Lake, and constructing new jetty on ocean front, 6th Ave. $125,000.

Ia., Carroll—Storm Creek D. D. 23, Carroll Co., rejected bids Aug. 1, cleaning out main ditch and laterals, incl. 421,579 cu.yd. excav., etc. Will readvertise. W. T. Bohnenkamp, co. aud.

Tex., Navasota—Brazos Valley Irrigation Co., c/o W. T. Eldridge, pres., Sugarland, making plans dam, impounding 5,250 acre ft. water, on Brazos River for irrigation, etc., near here. $100,000. Private plans.

Calif., Redwood City—South San Francisco D. D. 1, made plans rein.-con. drainage canal, 36 in. rein.-con. storm drain, rein.-con. bridges, etc. $142,000. G. A. Kneese, Redwood City, co. surv.

Ont., Leamington—Mersea Twp., A. Hairsine, clk. council, making plans complete reconstruction, Selkirk Drain. $70,000. J. J. Newman, Davis Blk., Windsor, engr.

Bids Desired

N. J., Sea Girt—Sept. 6, by Boro Council, 6 creosoted timber jetties on Ocean Front, near Sea Girt Ave., Sincerbeau, Moore & Shinn, Trust Bldg., Asbury Park, engrs. Noted July 7.

N. C., Wilson—Sept. 8, by Mayor and Bd. City Comrs., dredging 70,000 ft. Hominy Swamp. $35,000. R. D. Gladding, Wilson, consult. engr.

La., Rayville—Sept. 12, by Comrs. Tensas Basin Levee Dist., J. W. Summerlee, pres., constructing 200,000 cu.yd. levee work on Ouachita River, Caldwell Parish. Bd. State Engineers, 213 New Orleans Court Bldg., New Orleans, engrs.

Ia., Logan—Sept. 6, by W. R. Adams, aud. Harrison Co., repairing Soldier Cutoff Ditch, incl. sloping of banks, rebuilding 7.25 mi. levees to grade line from bridge at Orson to Missouri River, 938,000 cu.yd. excav., etc. T. A. Cherry, Logan, engr.

Arkansas—Sept. 6, by Morgan Eng. Co., 622 Goodwyn Institute, Memphis, Tenn., corrugated iron pipe and gates, etc. for drainage system, here, for Council Chute D. D., Crittenden Co., c/o engineers.

Ont., Humberstone — Sept. 6, by A. E. Near, clk., Humberstone Twp., Port Colborne, approximately 20,495 cu.yd. drainage excav., here. $25,000. Ross & Scott, Welland, engrs.

B. C., New Westminster — Sept. 6, by Dept. Pub. Wks., Ottawa, Ont., S. E. O'Brien, secy., approximately 1,000 ft. rock embankment in Fraser River, near here. $40,000. C. C. Worsfold, P. O. Bldg., engr.

B. C., Powell River—Sept. 6, Dept. Pub. Wks., Ottawa, Ont., 1,000 ft. rock and rubble breakwater, incl. 50,000 cu.yd. large dimension rock, etc., here. $150,000. C. C. Worsfold, P.O. Bldg., New Westminster, engr.

Contracts Awarded

Miss., Clarksdale—Bd. Comrs. Yazoo-Mississippi Delta Levee Dist., 10,000 ft. levee work, incl. 297,600 cu.yd. new and sub-levees, to McWilliams & Abernathy, Clarksdale, $119,000. Noted July 28.

Miss, Greenville—Comrs. Mississippi Bd. of Levees, 100,000 cu.yd. levee enlargement at Lake Vermill, to T. W. Roach, North Memphis Savings Bank Bldg., Memphis, Tenn., at $0.364 per cu.yd.

Mo., Princeton—Little River D.D., Main Ditch and Brush Creek Lateral, 300,000 cu.yd. excav., to Fred M. Crane Co., 1124 City Natl. Bank Bldg., Omaha, Neb., at $0.08 per cu.yd.

Ont., Cookstown — Tecumseh Twp. constructing Nottawasaga Drain, 197,400 cu. yd. earth excav., to Cummings & Robinson, Bradford. Engrs. est. $75,000.

Ont., Sarnia—Dept. Pub. Wks., Ottawa, dredging harbor, here, to Natl. Dock & Dredging Corp., Quebec City, Que., $116,000.

Streets and Roads

Bids Desired

New Hampshire—Sept. 7, by State Hy. Dept., Concord, grading and 3 in. bituminous macadam on 5 in. broken stone surfacing 18,400 sq.yd. or one course rein.-con. on old surface treated gravel surfacing 18,566 sq.yd. East Side Rd., Carroll Co. $55,000. H. L. Smith, Lakeport, engr.

N. Y., Brooklyn — Sept. 8, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading, sidewalks, etc., parking space at Dreamland, Coney Island, Avenue U, Powell St. and Benson Ave.; restoring and repaving where directed in various streets; grading and granite block repaving Atlantic Ave.; grading and sheet asphalt on concrete paving Bulwer and Hinckley Pls., Farragut, Glenwood, and Rutland Rds., Avenues S, O and M, Flatlands, Gravesend, Lefferts, Narrows, Utica, and 6th Aves., East 5th, East 8th, East 98th, Junius, North 15th, West 12th Sts., etc.

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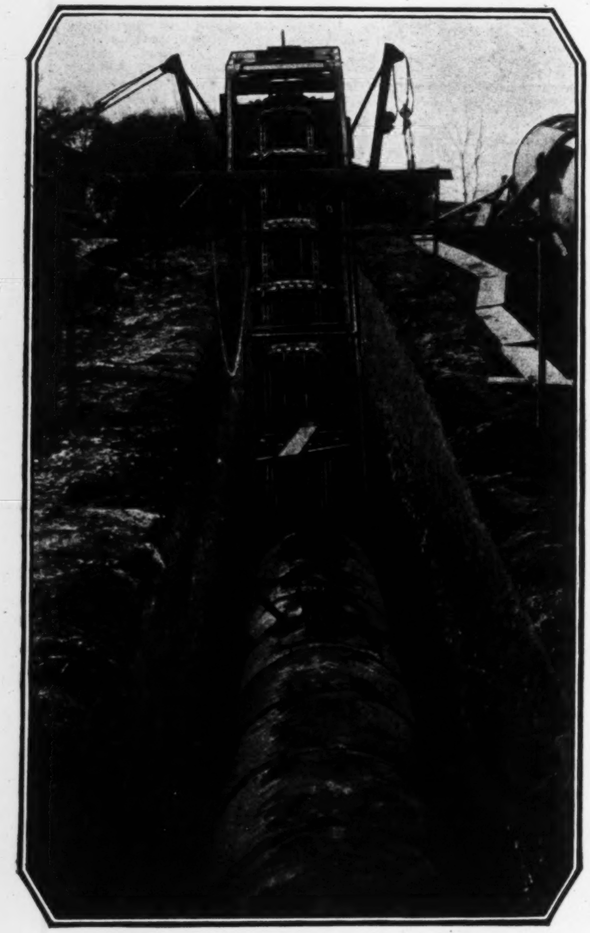

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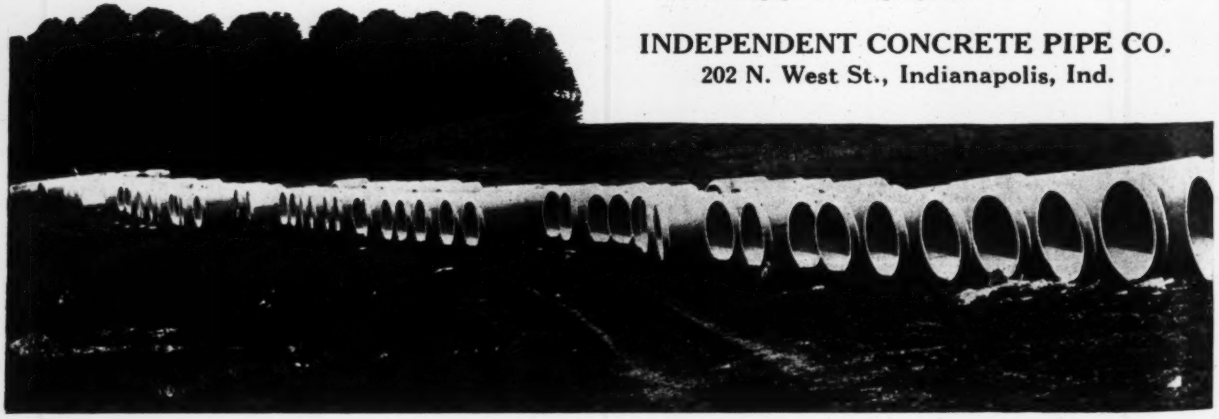
INDEPENDENT 48-inch Concrete Pipe delivered along the line of a trunk sewer at South Bend, Ind.



Streets and Roads (Continued)

N. Y., Long Island City—Sept. 6, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, sidewalks, etc., in Stanley Ave. from Blackstone to Connecticut Aves.

N. Y., New York—Sept. 9, by B. M. Patten, comr. Pub. Markets, Municipal Bldg., grading, paving, etc., Bronx Municipal Terminal Market, Exterior and 151st Sts., Bronx Boro.

N. Y., Ridgewood (sta. Brooklyn)—Sept. 6, by W. R. Herrick, pres. Park Bd. Dept. Parks, Arsenal Bldg., Central Park, New York City, improving Anawanda Park, here.

New Jersey — Sept. 19, by State Hy. Comn., Trenton, grading and 8 in. double line rein.-con. paving 11,156 sq.yd. Route 18 (South) and Route 20, Malaga Relocation and grade crossing elimination, Gloucester Co. A. L. Grover, ch. clk.; adv. E. N.-R. Sept. 1.

Pa., Phila.—Sept. 6, by Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., repaving Broad St. between Loudon St. and Wagner Ave.; and replacing 1,720 ft. existing granite blocks on concrete base (with bitulithic mastic filler), 69 ft. in Broad Street Subway.

Pa., Uniontown—Sept. 7, by E. Huston, controller Fayette Co., grading, etc., 11,500 ft. road, in Menallen Twp.; rein.-con. paving, etc., 5,157 ft. streets Connellsville Twp., and 9,371 ft. in Upper Tyrone Twp.; all foregoing 16 ft. wide; also Kentucky rock asphalt on 10 in. crushed stone or crushed slag paving, etc., 5,300 ft. streets, 18 ft., in Washington Twp.

Maryland — Sept. 6, by State Roads Comn., Baltimore, graveling 1.2 mi. Contr. AA-48, Anne Arundel Co.; concrete shoulders on 2.32 mi. Contr. 48-B, Allegany Co.; concrete paving 0.5 mi. Contr. P-79 Prince George's Co., and 1 mi. Contr. M-75, Montgomery Co.; also Amiesite and Kentucky rock asphalt paving 0.54 mi. Contr. A-47, Allegany Co. J. N. Mackall, chn.

Md., Baltimore—Sept. 7, by Bd. Awards, sheet asphalt surfacing 17,190 sq.yd. streets, listed in Contr. 429, also concrete paving 7,440 sq.yd., listed in Contr. 430. N. L. Smith, City Hall, acting highway engr.

W. Va., Charleston—Sept. 8, by Court Kanawha Co., grading, etc. 5.27 mi. Cabin Creek-Marmot Rd., Project 206. $80,000. C. Ross, Charleston, engr.

Fla., Sanford—Sept. 6, by Bd. Comrs. Seminole Co., clearing, grading, bridging and paving 200,000 sq.yd. various roads. F. T. Williams, Sanford, engr.

Miss., Canton—Sept. 6, by Bd. Supervs. Madison Co., grading, graveling, etc. 6 mi. Sharon-Canton Highway, 18 ft. R. Covington, Canton, engr.

Louisiana—Sept. 6, by State Hy. Comn., Baton Rouge, grading and graveling 6.19 mi. Robeline-Cypress Highway, State Project 430-B, Natchitoches Parish. N. W. Bowden, highway engr.

Louisiana—Sept. 15, by State Hy. Comn., Baton Rouge, grading and graveling 6.548 mi. Sun-Bogalusa-Mississippi State Line Highway, Sect. D, State Project 412-D, Washington Parish. N. W. Bowden, highway engr.

Louisiana—Sept. 15, by State Hy. Comn., Baton Rouge, grading and shell surfacing 13.103 mi. Cutoff-Golden Meadow Highway, State Project 558, Lafourche Parish. N. W. Bowden, highway engr.

La., West Monroe — Sept. 7, by City Clerk, grading and granitoid paving 16.5 mi. various streets.

Tenn., Cleveland—Sept. 6, by W. Parks, mayor, grading, curbing and 7 in. concrete paving 4,900 sq.yd. 36th St. $35,000. Long & Co., Bennie-Dillon Bldg., Nashville, engrs.

Ohio—Sept. 9, by G. Schlesinger, dir. Highways & Pub. Wks., Columbus, brick, concrete or bituminous macadam paving roads in Columbiana, Coshocton, Fulton, Jefferson, Meigs, Mercer, Scioto, Morrow, Muskingum, Portage, Stark, Washington Counties, etc. $1,689,381.

Michigan — Sept. 20, by C. L. Cowgill, resident engr., Plymouth, concrete paving 3 mi. MO 82-14, Contr. 3, 20 ft., Wayne Co., for State Hy. Dept., Lansing.

Mich., Pontiac—Sept. 7, by J. V. Bayley, clk. Bloomfield Twp., grading and 6 in. compacted gravel surfacing 30,082 sq.yd. Assessment Dists. 2 and 3. $25,000. McAlpins-Starr, Inc., Birmingham, engrs.

Ill., Maywood—Sept. 8, by City, curbing, guttering and rein.-con paving 11,700 sq.yd. 19th Ave. $52,250. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs.

Ill., Niles Center—Sept. 6, by Town, curbing, guttering and rein.-con. paving 32,965 sq.yd. Lonnquist Ave. $132,000. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs.

Minn., Robbinsdale — Sept. 6, by C. F. Wilson, village mgr., grading, etc. 90,000 cu.yd. streets in McNair Manor. $35,000. J. E. Carroll, 1682 Lincoln Ave., St. Paul, engr.

Kan., Cottonwood Falls — Sept. 23, by Clerk Chase Co., grading, etc. 8.452 mi. Federal Aid Project 47-C, 28 ft. H. W. Wilkinson, Cottonwood Falls, co. engr.

N. D., Minot — Sept. 6, by City, G. A. Reishus, aud., rein.-con., asphaltic concrete or warrenite bitulithic on concrete or asphaltic concrete paving, etc., approximately 27 blocks streets Dists. 21, 24 and 25. $100,000.

Mo., St. Louis—Sept. 20, by Bd. Pub. Serv., 208 City Hall, grading Esther St. between Elizabeth and Simpson Sts. $2,500, Iron St. between Colorado St. and Grand Kingshighway $2,400, Goodfellow St. between McLaran St. and Halls Ferry Rd. $28,400, grading sidewalk space on 12th St. between Park Ave. and Hickory St. $1,150; also 20 ft. rein.-con. paving, etc. Sublette Ave. between Arsenal and Connecticut Sts., $8,280. W. W. Horner, 300 City Hall, engr.

Ark., Fort Smith — See "Contracts Awarded."

Texas—Sept. 8, by State Hy. Comn., R. Sterling chn., Austin, grading, concrete paving, bituminous surfacing, etc., approximately, 220 mi. roads in 15 counties. $1,057,768.

Tex., Brownsville—Sept. 8, by Comrs. Court Cameron Co., concrete paving approximately 10.6 mi. Paraedes Line Rd., and 6.5 mi. State Highway 100; also grading, etc. approximately 16.4 mi. Boca Chica Rd. W. O. Washington, Court House, co. engr.

Tex., San Antonio — Sept. 8, by City Comn., grading and surfacing 13 blocks Taft Blvd. $25,000. I. Ewig, city engr.

Tex., Sweetwater—Sept. 7, by State Hy. Comn., Austin, R. A. Thompson, comr., concrete paving 233,533 sq.yd. State Highway 1, Sweetwater Co. $500,000. S. C. Dougherty, Sweetwater, resident engr.

Okla., Holdenville—Sept. 6, by J. Kirk, city clk., grading, curbing and concrete paving 8,400 sq.yd. Kelker Ave. $25,000. C. H. Edge, Holdenville, engr.

Washington — Sept. 13, by State Hy. Comn., Olympia **(S. R. means State Roads)**, grading approximately 5.2 mi. S.R. 3, Spokane Co., and 0.8 mi. S.R. 10, Douglass Co.; also constructing one 90 ft. steel bridge with concrete abutment, over Little Naches River, Yakima Co.; and 1,160 ft. 4 ft. timber sidewalk on Woodland Bridge over Lewis River at Woodland on S.R. 1, Cowlitz and Clark Counties. S. J. Humes, Olympia, highway engr.

Calif., Banning — City Trustees taking bids curbing, guttering, walks and paving, etc., Hays St., etc. To exceed $25,000. L. Nafzgar, city engr.

Calif., Petaluma — G. V. Roberts, city clk., taking bids hydrated concrete paving, etc., streets in A & I Impvt. Dist. 2. To exceed $25,000. J. B. Piatt, Rosenberg Bldg., Santa Rosa, engr.

Calif., San Diego—Sept. 12, by Common Council, grading, curbing, guttering, sidewalks, sewers, 6 in. asphaltic concrete paving, etc. 212,091 sq.ft. Hickory, Chestnut, and other streets; also 570,926 sq.ft. Hill, Cornish and other streets. A. H. Wright, city clk.

Ont., Scarborough — Sept. 6, by W. D. Annis, clk. Scarborough Twp., 1 Birch Cliff Ave., Toronto, brick and asphalt paving ¼ mi. Queen St., 33½ ft., here. $28,500. C. E. Fraser, 1683 Kingston Rd., Toronto, engr.

Ont., Toronto—Sept. 6, by York Twp., concrete sidewalks, etc., on 3 mi. Rogers and Old Weston Rds., Dufferin, Bude and Guy Sts., Metheun, Kane, Westmount and Bowie Aves. $30,000. F. B. Goedike, 40 Jarvis St., engr.

Contracts Awarded

Massachusetts—See "Bridges."

Massachusetts—Dept. Pub. Wks., Boston, bituminous concrete paving 2,600 ft. highway in Nantucket, to M. F. Roach, Inc., 35 Spring St., East Bridgewater, $10,266; bituminous macadam on gravel surfacing 4,846 ft. in New Braintree, to Hudson Constr. Co., 620 Governor Bldg., Newport, R. I., $13,869; and bituminous macadam asphalt paving 1,700 ft. in Rutland, to Guaranty Constr. Co., Shirley, $8,829, all 18 ft. Grand total $32,964. Noted Aug. 4.

Massachusetts—Dept. Pub. Wks., Boston, grading and bituminous macadam paving, etc., highway in Marlborough, to J. A. Genereaux, Southbridge, $45,616, both in Marlborough Co. Noted July 21.

New York—A. W. Brandt, comr. Highways, Albany **(R.C. means Repair Contract)**, concrete reconstructing 0.129 mi. R.C. 1642, Sandy Hill-Glens Falls, Highway 656, Warren Co., to J. Massivera, Glens Falls, $7,437; concrete on broken slag paving, etc. 2.43 mi. Highway 1767, Buffalo-Millersport, Part 1-B, Erie Co., to Peoples Paving Co., Inc., Buffalo, $209,689; and concrete reconstructing 3.01 mi. R.C. 1552, Lake Shore - Lackawanna City Highway 5019, Lackawanna City-South, Highway 5071, and Athol Springs-Walder Cliff, Highway 5407, to Harrison Eng. & Constr. Corp., Buffalo, $347,195. Grand total $564,321. Noted July 28 under "Bridges."

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Welsh Bros. Contg. Co., 32 Queen St., Astoria, grading, etc., Honeywell St. $2,490, 41st St. $11,546, and 61st St. $1,895, to J. J. O'Brien, Jr., William St., Jamaica, Virginia Ave. $2,016, to C. Kurth, 9519 126th St., Richmond Hill, Simonson Pl. $1,954, and to C. H. Georgi, 15 Ely Ave., Long Island City, Jamaica Ave. $3,130; to M. J. Grant, 139 Potter Ave., Astoria, granite paving 35th St., $2,153; and to Cleveland Trinidad Paving Co., Flushing, grading and asphalt paving 129th St., $15,983. Grand total $41,167. Noted Aug. 4.

N. J., Ridgefield Park—Concrete paving, etc. Lincoln Ave. from Hackensack Ave. to Cedar St., and Roosevelt Ave. from Preston St. to northern Line of city, to G. DiNapoli, Inc., 80 Main St., Hackensack, $82,522. Noted July 28.

N. J., Woodridge (mail Rutherford)—For 6 in. rein.-con. paving, etc. Columbia Blvd., Woodridge and Highland Aves., to A. Weyersberg & Co., 634 Valley Brook Ave., Lyndhurst, $60,646.

Pennsylvania—State Hy. Comn., Harrisburg, **(R. means Route and A. Application)**, concrete paving, etc., 16,900 sq.yd. R. 112, Sects. 5 and 6, Fayette Co., to Georges Constr. Co., Uniontown, $82,895, 5,365 sq.yd. A. 4638, Westmoreland Co., to W. H. Nicely Constr. Co., Ligonier, $29,833, 11,626 sq.yd. R. 228, Indiana Co., to J. L. Elder, Ebensburg, $51,404, and 35,696 sq.yd. R. 55, Blair Co., to Clark Bros. Constr. Co., Cherry Tree, $167,911; rein.-con. paving, etc., 20,375 sq.yd. R. 339, A. 4345, Dauphin Co., to Lincoln Constr. Co., Strafford, $74,576, 18,834 sq.yd. A. 4361, Westmoreland Co., to Gray Bros. Constr. Co., Youngstown, O., $156,889, and 6,800 sq.yd. R. 76, Sect. 6, Beaver Co., to C. B. Constr. Co., Beaver, $31,784; sheet asphalt paving, etc., 3,946 sq.yd. R. 97, Elk Co., to Permanent Paving Co., Johnstown, $7,558; and grading, etc., 10,919 cu.yd. R. 1, Dauphin Co., to J. C. Shawfield, Union Trust Bldg., Harrisburg, $19,981. Grand total $622,831. Noted July 14.

Maryland — State Hy. Comn., Baltimore, graveling, 2.7 mi. Sm-38, St. Marys Co., to T. Mullan, 3945 Greenmount Ave., Baltimore, $24,780; concrete paving 8 mi. Contr. A. A-51, Anne Arundel Co., to Ward & O'Connell, 3114 Presbury St., $22,813. Noted Aug. 4.

Md., Baltimore—Concrete paving 22,875 sq.yd. streets listed in Contr. 421, to Aiello Constr. Co., 4th and Gough Sts., $54,432. Noted Aug. 18.

Virginia — State Hy. Comn., Richmond, bituminous macadam surfacing 4.589 mi. Elkton Rd., Route 17, Project S-482-A, Rockingham Co., and 2.2 mi. Leesburg Rd., Route 251, Project S-505, Loudon Co., to C. S. Luck & Sons, 1617 Brook Rd., $143,532 and $98,478 respectively; grading, etc., 3 mi. Route 114, Project S-494-A, Dickenson Co., to W. H. Meadows & Co., Coeburn, $44,420, 1.86 mi. road top Warm Springs Mountain, Route 338, Project S-388, to M. T. McArthur, Johnson City, $36,183, 5.1 mi. Route 110, Project S-162-D and C, Prince Edward Co., to Spotsylvania Constr. Co., Highland Springs, $20,750, 2.948 mi. Route 23, Project S-139-C, Floyd Co., to Sutherland Bros., Clintonwood, $39,657. Grand total $383,020. Noted July 28.

W. Va., Charleston—Kanawha Co. Court, concrete surfacing portions Ruth-Rabel Mountain Rd. and Chestnut St., to H. R. Wiley, Charleston, $33,898. Noted Aug. 4.

W. Va., Middlebourne—Tyler Co. Court, improving Projects 1, 3, 4 and 5, Union Dist., and Project 4, Lincoln Dist., to Riggs & Matheny, Pennsboro, $48,145. Noted June 30.

Alabama—State Hy. Comn., Montgomery **(e.e. means engrs. est. and F.A.P. Federal Aid Project)**, to J. B. McCrary, Bankhead Ave., Atlanta, Ga., cement paving 16.61 mi. highway between Birmingham and Narrior, Jefferson Co. $249,519 e.e. $250,500 and and concrete paving 14.93 mi. roadway from end of F.A.P. 82 to Garden City, Cullman Co. $234,676 e.e. $236,000, to W. J. Bryson Paving Co., 239 West Adams St., Jacksonville, Fla., 6.86 mi. roadway from Hunter Station to overhead Louisville & Nashville Ry. bridge in Autauga Co., Montgomery and Autauga Co. $81,248 e.e. $83,200, 10.77 mi. roadway from Greenville to Lowndes Co. line, Butler Co. $162,496 e.e. $164,200, and 3.85 mi. roadway from city limits of Montgomery to Hunter Station

Constr. News page 108

YOUR BANK BOOK IS AT STAKE!

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Detroit, Mich.
Book Building

New Orleans, Louisiana
Whitney Central Bldg.

New York City
50 Church St.

Philadelphia, Pa.
Packard Building

Pittsburgh, Pennsylvania
Federal Reserve Building

San Francisco, Calif.
Monadnock Building

St. Louis, Mo.
Railway Exchange Bldg.

Streets and Roads (Continued)

$44,650 e.e. $45,500, to Hartman & Clark, 330 Peoria Life Bldg., Peoria, Ill., 10.58 mi. roadway from Theodore to Grand Bay, Mobile Co., $171,439 e.e. $175,000, to Mitchell Bros., Amer. Trust Bldg., Birmingham, 2.42 mi. Birmingham-Montgomery Highway, Jefferson, Shelby, Chilton and Autauga Counties, $49,249 e.e. $50,000. Grand total $993,307. Noted Aug. 4.

Alabama—State Hy. Comn., Montgomery (**e.e. means engrs. est.**), 5 in. rock asphalt paving 8 blocks through Luverne Twp., Crenshaw Co., to Luverne Twp., Luverne, $34,120 e.e. $35,000; concrete paving 3 blocks through Brundidge Twp. Pike Co. to Brundidge Twp., Brundidge, $12,931 e.e. $13,000, 2 blocks through Hartford Twp., Geneva Co. to Hartford Twp., Hartford $7,200 e.e. $7,500, 3 blocks through Attalla Twp., Etowah Co., to D. A. Burton, Jackson Blvd. $11,450 e.e. $12,100, 4 blocks through Dadeville Twp., Tallapoosa Co., to Tallapoosa Co., Dadeville $9,967 e.e. $10,200, 7 blocks through Guin Twp. Marion Co., and gravel surfacing 4 blocks highway from Uniontown to Newbern, Perry and Hale Counties, to Nixon & Phillips, Amer. Trust Bldg., Birmingham $25,680 and $70,195 respectively e.e. $26,000 and $72,000 respectively; also asphaltic concrete paving 4 blocks through Talladega Twp., Talladega Co., to Talladega Twp., Talladega, $15,276 e.e. $16,000. Grand total $186,819. Noted Aug. 4.

O., Akron—W. F. Peters, dir. Pub. Serv., (**e.e. means engrs. est.**) to Columbus Asphalt Paving Co., 304 Buckeye Bldg., grading, curbing and Mexican paving 4,130 sq.yd. Whittier Ave. $20,031 e.e. $25,000, repressed brick paving 7,300 sq.yd. East South St. $40,846 e.e. $48,300, and 3 in. brick paving 2,450 sq.yd. Delia Ave. $18,515 e.e. $27,000; to T. E. McShaffrey Constr. Co., 173 South Forge St., 4,900 sq.yd. Firestone Blvd. N. $42,19[illegible] e.e. $55,700; to McCourt Constr. Co., 369 South Main St., grading, curbing, walks and vitr. brick paving 8,400 sq.yd. Rhodes Ave. $117,168 e.e. $127,500; also to Guran & Brancich, 429 Matthews St., grading, guttering, walks and cindering 1,300 cu.yd. Neptune Ave. et al $12,332 e.e. $15,700. Grand total $251,087. Noted Aug. 4.

O., Canton — Bd. Control, brick paving 21st St. N.W., to Burd Constr. Co., Spring Ave. N.E., $90,000 engrs. est. $90,000; also asphalt paving approximately 1 mi. 21st St. N.W., 30 ft., to General Asphalt Paving Co., Witters Bldg., Cleveland Ave. N.W., $49,063, engrs. est. $50,000. Noted June 2.

O., Cincinnati—City (**e.e. means engrs. est.**), curbing, walks and concrete paving 10,700 sq.yd. and sheet asphalt paving 15,500 sq.yd. Anthony Wayne Ave., to General Contg. Co., 1222 Plymouth Bldg., Minneapolis, Minn., $235,815 e.e. $252,000; curbing, walks and sheet apshalt paving 3,800 sq.yd. Baymiller St., to Cino Constr. Co., 209 2nd Natl. Bank, $24,752 e.e. $26,269; also curbing, walks and 6,000 sq.yd. new and 4,500 sq.yd. old granite repaving 3rd St., to A. J. Henkel Co., 105 Bell Bl., $63,364 e.e. $74,558. Grand total $323,931. Noted July 21 and Mar. 31.

O., Cincinnati — Hamilton Co., curbing, walks and concrete paving, etc. 57,600 sq.yd. Montgomery Rd., to Brewer & Brewer Sons, 215 Hazen Bldg., $265,124. Engrs. est. $311,783.

O., Millersburg—Holmes Co., slag paving, etc. 3 mi. Blissfield-Gayland Rd., to G. C. Smith, Millersburg, $21,985, and grading, etc. same road, to C. J. and P. Sheetz, Millersburg, $10,176.

O., Portsmouth — Director Pub. Serv., brick paving Winchester Ave., and concrete paving Vermont St., to Frowine Bros., Portsmouth, $19,386.

O., Zanesville—Concrete paving approximately 1 mi. Echo Ave., 28 ft., to Adams Bros., Zanesville, $45,000.

Michigan—R. A. Beirs, resident engr., Kalamazoo, concrete paving 1,312 mi. Mo 12-10 Contr. 1 and Mo13-15 Contr. 1 Branch and Calhoun Counties, 20 ft., for State Hy. Dept., Lansing, to Mollering Constr. Co., Fort Wayne, Ind., $32,109. Noted Aug. 18.

Mich., Birmingham—For 8 in. one course concrete paving 15,731 sq.yd. various streets, to Taylor Constr. Co., Birmingham, at $2.38 per sq.yd.

Mich., Lincoln Park (mail Detroit)—Grading, concrete curbing, guttering and one course concrete paving 200,000 sq.yd. Assessment Dists. 129 and 131, to Bishop & Weir, 955 East Jefferson Ave., Detroit, $52,076.

Mich., Port Huron—St. Clair Co. concrete paving 23,778 sq.yd. Special Assessment Dist. 101, 20 ft., to J. H. Baker & Sons, Port Huron, $80,239.

Mich., Royal Oak (Ind. br. Detroit) — For 8 in. one course concrete paving 22,480 sq.yd. Wyandotte, Etawah, 5th, 6th, 4th, Center, Irving and Longfellow Sts. to R. D. Baker, 1631 Elmhurst Ave., Detroit, $81,856.

Ill., Barrington—Concrete paving 20,000 sq.yd. various streets, to Powers & Thompson, Joliet, $60,000.

Ill., Chicago — Cook Co., Hy. Dept., County Bldg., concrete paving 2.6 mi. Carpenter Rd., to W. A. Black & Co., 565 West Washington Blvd., $80,156; 2 mi. Willow Springs Rd., to J. M. Pierson & Co., Chicago Heights, $92,051; 6.7 mi. 183rd St., to States Impvt. Co., 160 North La Salle St., $258,182; 5 mi. 135th St., to Pronger Bros., Blue Island, $213,017; 2.2 mi. Burnham Ave., to G. A. Summerville, Harvey, $88,530; 2 mi. 154th St., to A. Ward & Sons, Inc., Lansing, $84,601; 2 mi. Euclid Ave., to F. E. Herdman, Winnetka, $73,802; 1.4 mi. Devon Ave., to Chicago Heights Coal Co., Chicago Heights, $71,168; 1.5 mi. 25th Ave., to S. Jaicks, 77 West Washington St., $71,707; 2.6 mi. 47th St., to Jaicks Bros., 77 West Washington St., $109,287; 4.1 mi. Cicero Ave. and 63rd St., to J. P. O'Keefe, 7854 South Ashland Ave., $165,510, 6 mi. McCarthy Rd., to Randolph Constr. Co., 400 North Michigan Ave., $280,181; portions Euclid and Wilkie Aves., to W. A. Black Co., 565 West Washington Blvd., $71,517; portions 157th St., to J. Mackler & Co., Chicago Heights, $208,686. Grand total $1,868,395.

Ill., Danville — Vermilion Co., concrete surfacing 1.25 mi. East Lynn-Iroquois Co. line Rd., to G. S. Little Constr. Co., Sullivan, approximately $25,000.

Ill., Mt. Prospect—Concrete paving, etc., 38,902 sq.yd. various streets, to Milburn Bros., 18th and Charles Sts., Rockford, $140,180.

Ill., Niles Center—Curbing, guttering and concrete paving 42,255 sq.yd. Main, Oakton, Cicero and Kenton Aves., also 17,970 lin.ft. concrete paving Gable Ave., to Arcole Constr. Co., Evanston, $150,714 and $62,112 respectively. Noted July 7.

Wisconsin — State Hy. Comn., Court House, Rhinelander, graveling, etc. approximately 6,723 cu.yd. Rhinelander-Monico Rd., Federal Aid Project 436-A, Oneida Co., to Interstate Eng. Co., Green Bay, $39,982; and 5,288 cu.yd. Park Falls-Butternut Rd., Price Co., to I. S. Ofstie, Menomonie, $37,262. Noted Aug. 4.

Wis., Milwaukee—Bd. Pub. Wks., R. E. Stoelting, comr., to Gumz & Switalski, 831 13th Ave., paving Appleton Ave. $21,935, Atkinson Ave. $34,651, Teutonia Ave. $8,690, and 61st St. $8,690; to W. F. Hunt, 445 Milwaukee St., Concordia Ave. $21,359, and 45th St. $23,032; to Badger Constr. Co., 97 East Wisconsin Ave., East Locust St. $8,325; to Wisconsin Asphalt Paving Co., 123 Wisconsin Ave., Prospect Ave. $34,506; Czerwinski Constr. Co., 765 National Ave., Sherman Blvd. $4,248, 39th St. $32,085, and 36th St. $5,596; to Kroening Constr. Co. ,5th St. and Windlake Ave., 60th St., $361; to Eastern Constr. Co., 3 alleys, $6,288; to N. Harris, Girard and St. Albans Sts., 1 alley, $4,564; to F. W. Blodgett, Inc., 521 Newton Ave., 1 alley, $1,143; to Blech Constr. Co., Milwaukee, 1 alley, $13,811; and to Schramkowski & Sons Co., 918 Dousman St., 2 alleys, $6,853. Grand total $356,627.

Wis., Waukesha—Grading and paving Waukesha Rd., to Milwaukee General Constr. Co., 427 Mitchell St., $99,032.

Ia., Allison—Butler Co., to J. H. Miller & Son, Newton, improving Primary Grading Project P-260, on Primary Road 10, 105,402 cu.yd. earth excav. at $0.28 per cu.yd., 292 cu.yd. rock excav. $0.75 and $1.75, and 720 ft. culvert labor $0.20.

Ia., Clinton—Clinton Co., clearing, grubbing, grading, etc. 4.2 mi. Wheatland-Big Rock Rd., to E. Sash, 1025 North 17th St., Cedar Rapids, $26,540.

Ia. Ft. Madison — Lee Co., to W. W. Cummings, Ottumwa, improving Project P-480, U. S. Highway 61, 132,053 cu.yd. earth excav. at $0.30 per cu.yd. and 80 cu.yd. $0.35, 200 cu.yd. rock excav. at $2 and $3, and 1,440 ft. 15- to 36-in. culvert labor $0.50 to $0.75 and to Wright Constr. Co., 1325 Main St., Des Moines, 6 in. rein.-con. paving 79,917 sq.yd. same road. $184,610.

Ia., Idagrove—Auditor Ida Co., to Lynch & Co., Castania, improving Project M-309, 3,750 cu.yd. crushed and screened gravel 1 mi. haul at $0.42 and $0.45 per cu.yd., 50,725 units ½ mi. haul $0.07, $0.08 and $0.09, 2,600 cu.yd. stripping $0.20, and 800 cu.yd. Class "A" gravel from cars $1.94. Noted July 28.

Ia., Mt. Ayr — Ringgold Co., to C. C. Barnes & Son, Equitable Bldg., Des Moines, improving 6.93 mi. Project P-484, 151,174 cu.yd. excav. at $0.295 per cu.yd., and 1,760 cu.yd. $0.35, 200 cu.yd. rock excav. $1.50 and $2, also 448 ft. culvert labor $0.40.

Ia., Muscatine—Muscatine Co., to J. H. Miller, Newton, improving 13.285 mi. Project 481, U. S. Highway 61, 234,600 cu.yd. excav. at $0.28 per cu.yd., 5,500 cu.yd. loose rock $0.60, and 6,946 cu.yd. solid rock $1.65, also 1,800 ft. culvert labor $0.20.

Ia., Newton—Auditor Jasper Co., to J. H. Miller, Newton, improving 9.814 mi. Project 99 180,730 cu.yd. excav. at $0.28 per cu.yd., 200 cu.yd. loose rock $0.65, and 200 cu.yd. solid rock $1.50, 928 ft. culvert labor $0.20.

Ia., Orange City—Sioux Co., to Van & Van, Hull, improving Project M-351, 6,400 cu.yd. crushed and screened gravel 1 mi. haul at $0.40 and $0.47 per cu.yd., 128,950 units additional haul $0.07 and $0.08, and 1,000 cu.yd. stripping $0.07.

Ia., Rock Rapids—Lyon Co., to Van & Van, Hull, improving Project M-313, 6,075 cu.yd. crushed and screened gravel 1 mi. haul at $0.45 and $0.50 per cu.yd., 37,875 units additional haul $0.08, and 1,400 cu.yd. stripping $0.25.

Ia., Spencer—Clay Co., grading 121,315 cu.yd. primary and secondary roads, to H. Noel, Peterson at $0.298 per cu.yd. Noted July 28.

Kan., Eldorado—Butler Co., grading, etc. 0.4 mi. Kansas Project 67-E, to M. R. Amerman, Wichita, $15,675. Noted July 21.

Kan., Ellsworth—Ellsworth Co., grading, etc., 7.81 mi. Kansas Project 62-A and B, to Campbell Bros., 608 Manufacturers Bldg., Kansas City, Mo., $46,721, and 3 bridges on same road, to F. C. Easterly, Ellsworth, $12,812.

Kan., Erie—L. R. Stanley, clk. Neosho Co., grading, and 4 bridges on 10.28 mi. Federal Aid Project 380-A, 28 ft., to A. L. Cook, Ottawa, $79,615 and $22,714 respectively.

Kan., Kansas City—Wyandotte Co., concrete paving 4.593 mi. Project 98, to Reed & Wheelock, Clay Center, $109,095.

Montana—State Hy. Comn., Helena (**F.A.P. means Federal Aid Project**), grading, etc. 175,802 cu.yd. Butte-Boulder Rd., F.A.P. 242-B, Silver Bow Co., to L. T. Lawler, Butte $156,798, 164,495 cu.yd. Poplar-Culbertson Rd., F.A.P. 240-A, Unit 1, Roosevelt Co., to J. E. Hilton, Miles City, $62,478 and 92,676 cu.yd. Yellowstone Canyon Rd., F.A.P. 217-D, Unit 1, Park Co., to J. W. Hershberger, Hardin $47,121; crushed graveling, etc. 7,857 cu.yd. Yellowstone Canyon Rd., F.A.P. 217-C, Unit 2 and 217-D Unit 3 Park Co., and 5,482 cu.yd. Forsyth-Miles City Rd., F.A.P. 135-A, Unit 1, Rosebud Co., to F. E. Collins, Billings, $25,312 and $51,912 respectively, 5,515 cu.yd. Big Timber-Columbus Rd., F.A.P. 127 C and D, Unit 1, Sweet Grass Co., to Morris Constr. Co., Great Falls $39,965, and 9,897 cu.yd. Dupuyer-Birch Creek Rd., F.A.P. 236-A, Unit 1, Pondera Co., to J. L. McLaughlin, Livingston $87,455; also scoria surfacing, etc. 9,891 cu.yd. Miles City-Broadus Rd., F.A.P. 198-A, Powder River Co., to N. D. Nichols, Medora, N. D., $32,730. Grand total $503,770.

Montana—State Hy. Comn., Helena (**F.A.P. means Federal Aid Project**), to R. A. Schwieger, Billings, grading, crushed graveling, etc. 5,075 cu.yd. F.A.P. 245-A, Unit 1, Richland Co. $36,362, 4,729 cu.yd. F.A.P. 130-B, Unit 1, Prairie Co. $35,492, 2,821 cu.yd. F.A.P. 138-B, Musselshell Co. $29,566, and 5,391 cu.yd. F.A.P. 229-B, Fergus Co. $66,343, to B. Helean, P. O. Box 700, Missoula, 4,188 cu.yd. F.A.P. 215-B and C, Missoula Co. $38,208, and to Fagenstrom Bros., Great Falls, 2,881 cu.yd. F.A.P. 218-B, Unit 1, Cascade Co. $24,285; to L. T. Lawler, Butte, grading and surfacing, etc. 11,045 cu.yd. F.A.P. 242-A, Unit 1, Jefferson Co., $86,128; and to Kiely & Lepp, Butte, grading, concrete paving, etc. 11,109 sq.yd. F.A.P. 68-B and 70-A and C, Deer Lodge and Silver Bow Counties, $43,555. Grand total $359,939.

Mo., Independence—Jackson Co., vibrated concrete paving Holmes St. between south city limits and 85th St., to T. P. Thompson, 3908 Forest Ave., $34,061.

Mo., Joplin—Asphalt on concrete paving 2,250 sq.yd. 20th St., to V. E. Koch, 417 Joplin St. at $1.78 per sq.yd.; warrenite bitulithic paving 800 sq.yd. 5th St. and 780 sq.yd. 21st St., to Granite Bituminous Paving Co., Ry. Exch. Bldg., St. Louis, at $1.83 and $1.95 respectively; also concrete paving 2,450 sq.yd. Sergeant Ave., and 7,500 sq.yd. Murphy St., to H. Kost, 2002 Jackson Ave. at $1.72 per sq.yd. Noted July 7.

Mo., Webster Groves (Ind. br. St. Louis) — Grading, concrete paving, etc., Bacon Ave. between Rock Hill and city limits, and Virginia Ave. between Edgar and Hazel Sts., to Industrial Track Constr. Co., Title

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Streets and Roads (Continued)

Guaranty Bldg., St. Louis, $7,207 and $3,929 respectively; Big Bend Ave. between Old Orchard St. and Log Cabin Lane and Ridge St. between Edgar and Selma Sts., to F. C. Stolle, 539 South Rock Hill Rd. $2,510 and $6,791 respectively; and Swan St. between Old Orchard St. and Laclede Station Rd., to C. M. Berry Constr. Co., Empire Bldg., $5,699. Grand total $26,136.

Arkansas—State Hy. Comn., Little Rock, grading 4.737 mi. road between Alma and Fine Springs, State Project C-71 S 15 A, to James & Hopper, Alma, $27,057; graveling 11 mi. Batesville-Heber Springs Rd., Federal Aid Project 240-B, to Ellis & Lewis, Muskogee, Okla., $37,798; grading, gravel surfacing, bridging, etc., 7.765 mi. road between Rhea Bridge and Paragould, Federal Aid Project 242-A, to Merchants Transfer Co., 117 East 2nd St., Little Rock, $78,392; 154 ft. treated timber bridge over Two Bayou, on Camden-Hampton Rd., Federal Aid Project 226-B, to J. W. Covington, Benton, $3,089; and bridge between McGehee and Arkansas City, State Project C 4 S 16 A, to J. F. Mullins, 1818 Chestnut St., Pine Bluff, $12,211. Grand total $158,547.

Ark., Fort Smith — City will resurface with concrete, etc., 3 mi. North 6th St., by day labor.

Tex., Amarillo—Asphalt paving approximately 2 mi. Wolflin Addition (Subdivision), to Wilmering & Mullen Constr. Co., Amarillo, $108,000.

Tex., Fairfield—Freestone Co., concrete paving, etc., 165,000 sq.yd. State Highway 7 between Turlington East and point near Trinity River, to Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $468,876. Engrs. est. $490,000.

Okla., Newkirk—Kay Co., paving 21,120 sq.yd. roads, to Staunton & Wallace, Leavenworth, Kan., at $2.20 per sq.yd., total $46,464; and 11,258 sq.yd. roads to Rightmire & Baldwin, Ponca City, Okla., at $2.30, total $25,893.

Okla., Sapulpa—Creek Co., grading and concrete surfacing 13,102 sq.yd. County Road 7-A, to Altman Rogers Co., McAlester, $24,882. Engrs. est. $28,800.

Okla., Tulsa—Grading, curbing and sheet asphalt paving 7,875 sq.yd. Dists. 814 and 818, to H. L. Cannady & Co., 1122 South Lewis St., $31,913, engrs. est. $33,640; also grading and sheet asphalt paving 6,210 sq.yd. Dist. 318, to Standard Paving Co., 1742 East 6th St., $23,196. Engrs. est. $25,460.

Idaho — J. D. Wood, comr. Pub. Wks., Boise, Aug. 13, crushed rock surfacing, etc., 11,900 cu.yd. road between Weiser and Midvale, Federal Aid Project 40-A, to Joslin & McAllister, Willows, Ore., $31,719, and 21,000 cu.yd. Federal Aid Project 129-A, Ada and Boise Counties, to H. E. Cornell, Boise, using concrete pipe, $107,078; also crushed graveling 4,000 cu.yd. Old Oregon Trail, Payette Co., to W. E. Storm, Weiser, $7,000. Grand total $145,797.

Nevada—State Hy. Comn., Carson City, grading, graveling, etc. 18,200 cu.yd. Federal Aid Project 99, Douglas and Ormsby 3-C3-4, Contr. 165, to Nevada Rock & Sand Co., Reno, $73,719; corrugated metal pipe for above, to Western Pipe & Steel Co., 444 Market St., San Francisco, Calif., $1,232. Noted Aug. 11.

Washington—State Hy. Comn., Olympia, **(S. R. means State Road)**, crushed graveling, etc., 14,950 cu.yd. S. R. 5, Lewis Co., to G. M. Hazard, Wilson & Abraham, Stevenson, $22,600, and 3,180 cu.yd. same road, to Rock Constr. Co., Inc., 1514 South Ainsworth Ave., Tacoma, $5,962; grading, etc., 56,500 cu.yd. S. R. 12, Lewis Co., to Hendricks & Olson, Chehalis, $49,761, 67,000 cu.yd. S. R. 12, Pacific Co., to A. Wallin, P. O. Box 115, Montesano, $35,016; also grading and concrete paving 3 mi. S. R. 1, near Burlington, to J. H. Collins & Co., Box 1014, Everett, $32,344. Grand total $145,683. Noted July 28.

Wash., Hoquiam—City Council, concrete paving N St. et al, to Greene Eng. Co., Aberdeen, $33,075.

Wash., Seattle—King Co., Court House, grading 0.5 mi. and concrete paving 1 mi. Kent-Des Moines Highway, 20 ft., to Simpson Realty & Securities Co., Kent, $35,450.

Oregon—State Hy. Comn., Salem, surfacing, etc., 12.52 mi. Garibaldi Roosevelt Highway, Tillamook Co., to Newport Constr. Co., Newport and Portland, $90,460, and 11.32 mi. Lakeside Sect. Roosevelt Highway, Douglas and Coos Counties, to R. E. Johnson, Portland, $96,568; macadamizing 1.71 mi. Harlow Pass Sect. Mt. Hood Highway, Hood River Co., to H. G. Johnson, Alsea, $30,395; and furnishing maintenance materials for Loe Passe Sect. Willamette-Florence Highway, Lane Co., to A. S. Wallace, Portland, $35,080. Grand total $252,503.

Calif., Hawthorne — Curbing, guttering, walks and asphaltic concrete paving Maryland Ave., etc., to Oswald Bros., 366 East 58th St., Los Angeles, $71,870. Noted Aug. 11.

Calif., Los Angeles — Grading, asphaltic concrete and concrete paving, etc. Indiana St. between 1st St. and Mines Ave., to P. J. Akmadzich, Wilcox Bldg., $291,178.

Calif., Los Angeles—Curbing, guttering, and National asphaltic concrete paving, etc. 108th St. between Figueroa St. and Vermont Ave., to Griffith Co., 502 Los Angeles Ry. Bldg., $46,673. Engrs. est. $44,033.

Calif., Los Angeles—Curbing, guttering, walks and concrete paving, etc. Otsego St. between Lankershim Blvd. and Tujunga Ave., to McCray Co., 4482 East Worth St., $26,070.

Calif., Martinez—J. H. Wells, clk. Contra Costa Co., oil macadam paving 4 mi. portion Border Highway, to Heafey-Moore Co., 344 High St., Oakland, $31,173.

Calif., Marysville—Grading and 1½ in. Warrenite bitulithic on 2½ in. asphalt paving, etc. B and 17th Sts., etc., to Warren Constr. Co., 28th and Poplar Sts., Oakland, approximately $50,000.

Calif., Stockton—Grading, 2 in. cement on gravel paving streets in Bungalow Park and Elm Tracts, to Clark & Henery Constr. Co., 930 East Anderson St., $68,903.

Calif., Ventura — Ventura Co., grading and concrete paving Ventura Ave., to Silveria & Robbins, 824½ Main St., $73,089.

Calif., Yuba City—Sutter Co., asphaltic macadam on rock paving 5 mi. roadway from Rio Oso to Pleasant Grove, and 5½ mi. roadway from Pleasant Grove Rd., to Placer Co. line, to M. J. Bevanda, Warden Bldg., San Luis Obispo, $42,030 and $44,552 respectively.

B. C., North Vancouver—Concrete paving 14,200 sq.yd. new low level waterfront highway through Moodyville, to Vancouver Pile Driving Constr. Co., 207 Hastings St. W., Vancouver, $39,195.

B. C., Vancouver—Widening, concrete curbing and asphaltic concrete paving 2,600 ft. Pacific St., 36 ft., to Columbia Bitulithic Co., 500 Beatty St., $26,798.

Buildings—Commercial

Proposed Work

Mass., Attleboro — HOME, CLUBHOUSE and STORE—B. P. O. E. 1014 c/o O'Malley & Fitzsimmons, archt., Fanning Blk., Pawtucket, R. I., having revised plans prepared 2 story and basement, brick and stone, plain foundation, Winter St. $150,000-$175,000. Former bids rejected. Noted Aug. 4.

Mass., New Bedford — TERMINAL, FRUIT and PRODUCE TERMINAL — E. T. Fisher Co., Union and Water Sts., having plans prepared by Leary & Walker, Times Bldg., brick, Union St. To exceed $150,000.

N. Y., Brooklyn—STORE, OFFICE and SHOWROOM — Ludwig Bauman & Co., having plans prepared by Buchman & Kahn, 49 West 45th St., New York City, 10 story, 72 x 97 x 171 ft., brick and stone, Hoyt, Schermerhorn and Livingston Sts. $2,500,000.

N. J., Bradley Beach—HOTEL—Hotel La Reine Corp., Ocean Ave., plans altering present hotel and constructing 6 story and basement, brick and steel addition, plain foundation, La Reine and Ocean Aves. $1,000,000. Engineer and architect's names withheld.

N. J., Camden—GARAGE and SALES—Edwards & Green, archts., 548 Federal St., soon lets contract 2 story and basement, 74 x 100 ft., rein.-con., brick and architectual terra cotta, plain foundation, Haddin and Euclid Aves., for Camden Motors Co., 525 Market St.

N. J., Irvington (br. Newark)—APARTMENT—C. Dilena, c/o D. J. Scrocco, archt., 60 Park Pl., Newark, having plans prepared 4 story and basement, 92 x 100 ft., brick and steel, plain foundation, Chancellor Ave. and Cornell St. $150,000.

N. J., Jersey City—THEATRE—State Theatre Corp., J. E. Bernstein, pres., 2854 Hudson Blvd., takes bids about Sept. 15, brick and steel, plain foundation, 2836-38 Hudson Blvd. $200,000. Engineer and architect not selected.

N. J., Newark—APARTMENT—Mapes Ave. Constr. Co., c/o H. F. Clark, archt., 38 Clinton St., having plans prepared 5 story and basement, brick and steel, plain foundation, Elizabeth St. and Mapes Ave. $150,000.

N. J., Newark — CLUB — Ancaster Co., c/o Simpson & Rolston, archts., 45 Walnut St., had revised plans prepared 12 story, 100 x 100 ft., brick and steel, plain foundation. $500,000. Noted Apr. 28.

N. J., Newark — HOSPITAL — Presbyterion Hospital, 25 South 9th St., having plans prepared by Sutton, Sutton & Calkins, 402 Broad St., 6 story and basement, brick and steel, plain foundation, 9th Ave. and 9th St. $500,000. Noted May 19.

N. J., New Brunswick—COMMERCIAL—Pub. Serv. Production Co., archts., 80 Park Pl., Newark, soon lets contract 2 story and basement, brick and steel, plain foundation, here, for Pub. Serv. Electric & Gas Co., 80 Park Pl., Newark. $150,000. Noted July 21.

N. J., Orange—APARTMENTS—Filsel Realty Co., c/o A. Ginsberg, archt., Hillside Ave., Nutley, having plans prepared two 5 story and basement, brick and steel, plain foundation, 28-32 Linden Pl., here. $200,000.

N. J., Paterson — COMMERCIAL and OFFICE — B. Greemauer Co., 29 Church St., will not construct 2 story and basement, 55 x 150 ft., brick and steel, plain foundation, 23-25 Church St. $150,000. Project abandoned. Noted July 7.

N. J., Passaic—HOTEL—Stein Securities Co., Inc., H. Stein, pres., 201 Lexington Ave., having plans prepared by F. Wentworth, 140 Market St., Paterson, 4 story and basement, brick and steel, plain foundation, Main Ave. and Henry St. $200,000. Noted Aug. 4.

N. J., Paterson — SHOWROOM and SERVICE STATION — A. E. Sleight, archts., 138 Washington St., soon let contract 1 story and basement, 100 x 300 ft., brick and steel, plain foundation, Market and 36th Sts., for J. A. McCrane Motors Co., 638 Market St. $150,000. Noted Aug. 25.

N. J., Union — APARTMENT — Union County Housing Corp., c/o F. A. Elsasser, archt., 845 Broad St., Newark, will not construct 4 story and basement, brick and steel, plain foundation, Floyd Village Track, here. $150,000. Project abandoned. Noted Aug. 4.

Pa. Germantown (Phila. P. O.)—THEATRE, APARTMENT and OFFICE—R. L. Perot, archt., 137 Harvey St., preparing plans 4 story and basement, 85 x 160 ft., brick and steel, plain foundation, here. Owner's name withheld.

Pa., Phila. — APARTMENT — See "Contracts Awarded."

Pa. Phila. — APARTMENT — W. Grossman, c/o H. H. Kline, archt., 709 Chestnut St., having plans prepared 12 story and basement, 100 x 103 ft., rein.-con., brick and steel plain foundation, 38th and Chestnut Sts.

Pa., Phila. — GARAGE — H. H. Kline, archt., 709 Chestnut St., preparing plans 2 story, 64 x 150 ft., rein.-con. and brick, plain foundation, 2020 North Hancock St. Owners name withheld.

Pa. Phila.—LOFT—B. Shulman, archt., 1722 Arch St., soon takes bids rein.-con. and brick, plain foundation, 450-52 North 2nd St. $175,000. Owner's name withheld.

Pa., Phila.—STORE and LOFT—Associated Realty Co., 1600 Walnut St., having plans prepared by M. M. Boonin, 23 South 16th St., and soon takes bids 5 story and basement, 36 x 123 ft., rein.-con. and brick, plain foundation, 13th and Lombard Sts.

Pa., Phila. — THEATRE — H. R. Whitaker, 726 Nedro St., having plans prepared by Hodgens & Hill, 130 South 15th St., 1 story and basement, 82 x 139 ft., rein.-con., brick and steel, plain foundation, 5th and Roslyn Sts.

Pa., Sewickley — HOSPITAL—Sewickley Valley Hospital having sketches made by Schmidt, Garden & Erickson, archts., 104 South Michigan Ave., Chicago, Ill., 3 and 5 story, brick, Blackburn Rd. $1,000,000. Noted Feb. 3.

Md., Baltimore — APARTMENT—Owner, c/o G. E. Saulsbury, 3330 St. Paul St., having plans prepared by Palmer, Willis & Lamdin, 513 North Charles St., 8 story, irregular brick and stone, plain foundation, University Ave. and 40th St. $450,000.

Va., Richmond — GARAGE — Richmond Storage & Serv. Garage, Inc., J. L. Moon,

Buildings—Commercial (Continued)

pres., Electric Bldg., plans 71 x 130 x 164 ft., steel concrete and stone, 6th and Franklin Sts. $350,000. Noted June 16.

O., Columbus—J. A. Beer, 236 15th Ave., soon lets contract 8 story and basement, 90 x 135 ft., brick, steel and stone, incl. swimming pool, South 4th St., for Y. W. C. A., 60 South 3rd St. $600,000. Miller & Reeves, 205 East Broad St., archts.

O., Warren — BANK — Western Reserve Bank plans bank and office building. $350,000.

Ind., Terra Haute—BANK—Natl. Bank having plans prepared by Johnson-Miller-Yeager, 30 North St., remodeling bank, 600 bank, 600 Blk. on Wabash Ave. $185,000.

Ind., Terra Haute — OFFICE — L. E. Waterman having plans prepared by G. J. Stoner Co., 19 Chanticleer Bldg., 2 story and basement, 141 x 150 ft., brick, steel and stone, Cherry St. between 6th and 7th Sts. $160,000.

Mich., Birmingham — OFFICE — J. Couzens having sketches made 8 story and basement, rein.-con., brick, steel and stone, plain foundation, West Maple and Bates Sts. $1,000,000.

Mich., Detroit — APARTMENT — Owner, c/o F. O. Varney, archt., 2847 Grand River Ave., having plans prepared 3 story and basement, 150 x 170 ft., brick, steel and rein.-con., plain foundation, Putnam Ave. $300,000.

Ill., Chicago—APARTMENT and STORE —A. Eisenstein, c/o Dubin & Eisenberg, archts., 14 West Washington St., having plans prepared and soon takes bids 3 story and basement, 111 x 140 ft., brick, Madison and Mayfield Sts. $300,000.

Ill., Chicago — HOTEL and STORE — Allied Building Corp., c/o Hall, Lawrence, Rippel & Ratcliffe, archts., 123 West Madison St., having plans prepared and takes bids about Sept. 23, 13 story and basement, 75 x 125 ft., rein.-con., brick and terra cotta, incl. swimming pool, kitchenette, etc., Van Buren and Woods Sts. $1,000,000.

Wis., Milwaukee—APARTMENT—R. E. Oberst, archt., 128 Wisconsin Ave., soon lets contract 5 story and basement, 105 x 114 ft., rein.-con. and brick, Marshall St. Owner's name withheld.

Wis., Milwaukee—APARTMENT—Lillydahl Corp., 425 East Water St., plans 8 story and basement, 120 x 127 ft. apartment, Case and Ogden Sts. $500,000. Engineer and architect selected soon.

Neb., Wilber — COURT HOUSE — Saline Co. having plans prepared by M. L. Evans, Hastings, 3 story and basement, 70 x 100 ft., stone court house. $175,000. Noted July 14.

Tex., Galveston—OFFICE—Amer. Natl. Insurance Co., c/o S. Moody, pres., Beaumont, takes bids after Oct. 1, 11 story and basement, 43 x 84 x 120 ft., rein.-con., brick and steel, plain foundation, 21st and Mechanic Sts., here. $400,000. A. Fraser, 624 Amer. Natl. Insurance Bldg., Beaumont, archt.

Tex., San Antonio—OFFICE—Merchants Transfer Co., c/o A. L. Langston, mgr., having plans prepared by H. S. Green, Alamo Natl. Bank Bldg., 10 story, 240 ft. frontage, rein.-con., brick, stone and tile, Dolorosa St. and Military Plaza. $600,000.

Okla., Oklahoma City—STORE—R. M. Scott, 412 West Main St., having preliminary plans prepared 2 story and basement, 125 x 140 ft., rein.-con. and brick, plain foundation, 13th St. and Robinson Ave. $150,000. Engineer and architect not selected.

Ore., Portland — OFFICE, STORE and WAREHOUSE—L. L. Dougan, archt., Kreamer Bldg., takes bids in spring 11 story, 100 x 100 ft. office and store building $200,000, also 4 story, 200 x 200 ft. warehouse, $100,000, both rein.-con., brick and steel, for H. Jennings & Sons, Washington St.

Calif., Glendale — MEDICINE — Professional Building Co., 1052 West 6th St., Los Angeles, having preliminary plans prepared by A. F. Priest, 719 Fay Bldg., Los Angeles, 8 story and basement, 48 x 100 ft., rein.-con. and steel, here. $350,000.

Calif., Hollywood—HOTEL—A. LeBrun, archt., Palmer Bldg., preparing preliminary plans 5 story, 84 x 90 ft., brick hotel. $225,000. Owner's name withheld.

Calif., Ione — HOSPITAL and CLASSROOM—State Building Comn., Sacramento, having plans prepared by Dean & Dean, California State Life Bldg., Sacramento, two 2 story, rein.-con. and brick, here. $150,000.

Calif., Loma Linda—HOSPITAL—Loma Linda Sanitarium having plans prepared by R. D. Weston, 517 I. W. Hellman Bldg., Los Angeles, 2 story and basement, 40 x 200 ft., rein.-con. addition. $150,000.

Calif., Los Angeles — APARTMENT — Owner, c/o E. Northman, archt., 3052½ West Pico St., having preliminary plans prepared 4 story and basement, 57 x 150 ft., brick, Grand Ave. $150,000.

Calif., Los Angeles—STORE and LOT—Foreman & Clark, Metropolitan Bldg., 5th Ave. and Bway., having plans prepared by Curlett & Beelman, archts., Union Bank Bldg., 12 story and basement, 90 x 130 ft., steel and rein.-con., 7th and Hill Sts. $500,000.

Calif., Oakland—OFFICE—Fairview Properties Corp., L. L. Taylor, mgr., Ray Bldg., had plans prepared by Young Co., 339 15th St., 5 story and basement, rein.-con. and steel, 13th Ave. $150,000.

Calif., Sacramento—HOTEL—F. S. Harrison, archt., Peoples Bank Bldg., making preliminary sketches 5 story, 112 room, brick and concrete hotel. $150,000. Owners name withheld.

Calif., San Francisco — MERCHANDISE and LOFT — Butler Bros., 495 Bway., New York City, having plans prepared by Bliss & Fairweather, Balboa Bldg., 7 story and basement, rein.-con., south of market district, here. $700,000. T. Ronneberg, Crocher Bldg., engr. Noted Aug. 25 under "Buildings—Industrial."

Calif., Santa Monica—MAUSOLEUM—G. H. Sanders, Santa Monica Bldg., had plans prepared by W. H. Hubbert, 110 Sutter St., San Francisco, concrete and marble, 380 crypts. $180,000. Noted July 14.

Calif., Santa Maria — THEATRE and LODGE — C. J. Weyl, archt., Guaranty Bldg., Los Angeles, soon takes bids 2 story and basement, rein.-con., 1,200 seating capacity, here, for West Coast Theatres, Inc., Film Exch. Bldg., Los Angeles, $200,000.

Calif., Sonoma — HOSPITAL — State Building Comn., Sacramento, having plans prepared by W. B. Faville, 1st Natl. Bank Bldg., San Francisco, fireproof, here. $150,000.

Calif., Yountville — BARRACKS — State Building Comn., Sacramento, having plans prepared by W. C. Hays, 1st Natl. Bank Bldg., San Francisco, 2 story, concrete and tile, here. $170,000.

Bids Desired

Mass., Brookline (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Cambridge (Boston P. O.) — HOME — City c/o C. R. Greco, archt., 11 Beacon St., Boston, taking bids 3 story and basement, 140 x 400 ft., brick and stone, plain foundation, Concord Ave. $200,000.

Mass., Danvers — HOME — Sept. 9, by Dept. of Mental Diseases, Boston, 3 story and basement male attendants home, brick and stone, plain foundation, at Danvers State Hospital, here. G. Robb, 14 Beacon St., Boston, archt.

Mass., Hyde Park (Ind. Sta. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Springfield—STORE and OFFICE —C. P. Pettis, c/o W. E. Dibble, archt., 21 Besse Pl., taking bids 2 story and basement, 90 x 110 ft., brick and stone, plain foundation, Dwight and Worthington Sts. $150,000.

Mass., Waltham (Boston P. O.) — BANK — Waltham Natl. Bank, F. Sears, 637 Main St., taking bids 1 story and basement, rein.-con., brick, steel and limestone, plain foundation, Moody and Branch Sts. $150,000. H. E. Davidson & Son, 46 Cornhill, Boston, archts.

N. Y., New York — APARTMENT — See "Contracts Awarded."

N. Y., New York—BARRACKS—Sept. 7, by B. S. Coler, comr. Pub. Welfare, Municipal Bldg., altering and constructing male barracks additions, City Home Dist., Welfare Island, here.

N. J., Elizabeth — APARTMENT — See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awarded."

Pa., Phila.—OFFICE—Sept. 9, by R. B. Bencker, archt., 13th and Chestnut Sts., 12 or 13 story and basement, 103 x 115 ft., rein.-con., brick, steel and limestone, plain foundation, West Washington Sq., for N. W. Ayer & Son, 308 Chestnut St. $1,000,000.

Pa., Phila.—THEATRE—Sept. 2, by B. J. Krapp, archt., 1 West 47th St., New York City, 1 story, balcony and basement, 105 x 143 ft., rein.-con., brick, steel and terra cotta, plain foundation, 13,859 sq.ft. floor space, Quincy and Walnut Sts., here, for Shubert Theatre Co., 225 West 44th St., New York City. Noted July 28.

Pa., Phila.—Sept 12, by L. E. Jallade, archt., 15 East 47th St., New York City, 27 story and basement, 85 x 110 ft., rein.-con,. brick and steel, concrete foundation, 15th and Cherry Sts., for Y. M. C. A., 1425 Arch St., here. $1,500,000. Noted Aug. 4.

D. C., Wash.—MEMORIAL—Amer. Natl. Red Cross, E St. near 17th St. N. W., taking bids general contract Monumental Memorial Building (Women of World's War). $500,000. Trowbridge & Livingston, 527 5th Ave., New York City, archts.

Ill., Chicago—APARTMENT—Leichenko & Esser, archts., 38 South Dearborn St., taking bids 3 story and English basement, brick and stone, Laramie Ave. and Congress St. Owner's name withheld.

Okla., Norman—HOSPITAL—Sept. 14, by Bd. of Affairs, Capitol, Oklahoma City, 3 story and basement, 77 x 140 ft., rein.-con. and brick, plain foundation on campus, here, for State Insane Hospital. $150,000. J. Hicks, Braniff Bldg., Oklahoma City, archts. Noted June 23.

Okla., Norman—WARD—Sept. 14, by Bd. of Affairs, Capitol, Oklahoma City, 3 story and basement, 90 x 170 ft., rein.-con. and brick, plain foundation, on campus, here, for State Insane Hospital. $175,000. J. Hicks, Braniff Bldg., Oklahoma City, archt.

Okla., Oklahoma City — HOSPITALS — Sept. 12, by State Bd. of Affairs, two 3 story and basement, rein.-con. and brick, plain foundations, one 80 x 240 ft. for crippled children, $300,000, other medical building, $250,000, both for State University, 13th St. J. Hicks, Braniff Bldg., archt.

Okla., Talihina—HOSPITAL—Sept. 14, by State Bd. Affairs, Capitol, Oklahoma City, 2 story and basement, 90 x 190 ft., brick, plain foundation, on campus, here. $150,000. A. J. Love & Co., Lynch Bldg., Tulsa, archt.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles—HOTEL—See "Contracts Awarded."

Ont., Toronto—STORE and APARTMENT —W. Moad, 50 Glenview Ave., taking bids 3 story and basement, rein.-con., brick and steel, plain foundation, Yonge St. $150,000. D. B. Burnham, 260 Lauder Ave., archt.

Contracts Awarded

Mass., Boston—GARAGE—Pub. Garage, 2 story and basement, 225 x 265 ft., rein.-con. and brick, plain foundation, Gainsboro and St. Botolph Sts., to J. Shapiro & Son, 27 School St. Archts. est. $300,000.

Mass., Brookline (br. Boston)—APARTMENT—Dwight Trust, A. Kaplan, 70 Winchester St., will build 3 story and basement, 100 x 100 ft., brick and stone, plain foundation, Textoth and Travers Sts. $150,000. Work will be done by separate contracts. Silverman, Brown & Heenan, 51 Cornhill, Boston, archts.

Mass., Hyde Park (Ind. Sta. Boston)—APARTMENT—Realty Trust, A. H. Sherry, Almont St., Dorchester, will build 3 story and basement, 7,000 sq.ft. floor space, brick and stone, plain foundation, River St., here. $150,000. Work will be done by separate contracts. S. E. Mof[illegible], 51 Cornhill, Boston, archt.

Mass., Malden (br. Boston) — APARTMENT—A. L. Carpenter, 157 Summer St., general contract 8 story and basement, brick, plain foundation, Summer and Clifton Sts., to A. H. Bowditch, 44 Bloomfield St., Boston. Archts. est. $200,000. Noted Aug. 25.

R. I., Burrillville (mail Harrisville) — HOSPITAL — Pub. Welfare Dept., State House, Providence, brick and steel sanatorium, here, to Lamoureux Bros., 546 Park Ave., Woonsocket. Archts. est. $150,000. Noted Aug. 11.

Conn., Meriden — BUSINESS — B. Soloman & C. D. Vetrano, 402 Church St., New Britain, 3 story, 100 x 150 ft., brick and steel, incl. 100 car garage, Colony and Brooks Sts., to L. Suzio Constr. Co., Brooks and State Sts. Archts. est. $150,000.

Conn., New Britain—TEMPLE—Masonic Temple Corp., S. Raymond, chn. building com., 2 story and basement, 70 x 110 ft., brick, steel and limestone, Russell and West Main Sts., to W. H. Allen Co. Inc., 12 Glen St. Archts. est. $160,000. Noted July 21.

Conn., Norwich—BUSINESS—Silverman Furniture Co., c/o F. Urso, archt., 432 Main St., Stamford, 8 story, 47 x 50 ft., brick and steel, Main and Water Sts., here, to Wood Co., Main St., Stamford. Archts. est. $150,000. Noted May 12.

Conn., Stratford — TEMPLE — Masonic Temple Assn., Main St., 3 story and basement, brick, steel, stone and marble, Main St., to H. Maring, Jr., 536 Lindley St., Bridgeport. Archts. est. $150,000. Noted Aug. 4.

N. Y., New York — APARTMENT — Crunow Building Corp., 215 Montague St.,

Buildings—Commercial (Continued)

Brooklyn, will build 6 story and basement, 87 x 100 ft., rein.-con. and brick, plain foundation, Cruger and Arrow Aves., here, $180,000. Work will be done by separate contracts. Franklin, Bates & Heindsman, 2526 Webster Ave., New York City, archts.

N. Y., New York—STORE, OFFICE and LOFT — Owner, c/o Houston Properties Corp., 200 Madison Ave., general contract 35 story store, office and loft, on approximately 75 x 200 ft. site, East 39 and East 40th Sts. between 5th and Madison Aves., to G. Richard Davis & Co., Inc., 12 East 41st St. Archts. est. to exceed $150,000.

N. J., Elizabeth — APARTMENT — D. Duchin, 15th St., Linden, will build 5 story and basement, brick and steel, plain foundation, 1206 De Hart Pl. $175,000. Work will be done by separate contracts. Noted July 7.

N. J., Jersey City—GARAGE—J. Begtrub, 3468 Hudson Blvd., general contract 3 story and basement, 50 x 90 ft., brick and steel, plain foundation, Hudson Blvd. and Charles St., to J. Mitchell, Inc., 999 Bergen Ave. Archts. est. $150,000. Noted May 17.

N. J., Jersey City—GARAGE—J. Connolly, Inc., 623 Jackson St., Hoboken, general contract 2 story and basement, 100 x 100 ft., brick and steel, plain foundation, Montgomery and Monn Aves., to D'Elia Contg. Co., 994 Westside Ave., Jersey City. Archts. est. $150,000.

N. J., Newark—APARTMENT—Tower Realty Co., 36 Clinton St., will build 5 story and basement, brick, steel, plain foundation, 66 Crawford St. $150,000. Work will be done by separate contracts. Siegler & Greenberg, 164 Market St., archts. Noted Aug. 18.

N. J., Newark—OFFICE—P. J. Bowers & Co., 189 Market St., general contract 2 story and basement, 50 x 275 ft., brick and steel, plain foundation, Morris Canal, Washington and Plum Sts., to R. Allen, Inc., 319 Mt. Pleasant Ave. Archts. est. $150,000.

N. J., New Brunswick — OFFICE — A. Merchant, archt., 52 Patterson St., general contract 3 story and basement, 30 x 90 ft., brick and steel, plain foundation, Church St., to Highland Park Building Co., 238 Cleveland Ave., Highland Park, for J. O'Connell, 392 George St. Archts. est. $150,000. Noted Aug. 4.

N. J., Passaic—HOTEL and STORE—Stein Securities Co., Inc., H. Stein, pres., 201 Lexington Ave., general contract 4 story and basement, brick and steel, plain foundation, Main Ave., to J. W. Ferguson Co., 152 Market St., Paterson. Archts. est. $200,000. Noted Aug. 25.

N. J., Perth Amboy—PASSENGER STATION—New York Central R.R. Co., 466 Lexington Ave., New York City, F. B. Freeman, ch. engr., general contract 2 story, 45 x 120 ft., and 12 x 100 ft., brick and steel plain foundation, here, to Anderson & Wheeter, Inc., 1571 Richmond Terrace, Port Richmond, N. Y. Engrs. est. $150,000. Noted July 28.

N. J., Summitt — COMMERCIAL — Pub. Serv. Production Co., archts., Terminal Bldg., Newark, general contract 1 story and basement, 60 x 125 ft., brick and steel, plain foundation, Springfield and Summitt Aves., to Kirkpatrick Constr. Co., 185 Market St., Newark. Archts. est. $150,000. Noted July 14.

Pa., Beaver Falls—CITY HALL—Beaver Falls Boro, Boro Hall, general contract 2 story and basement, 68 x 100 ft., 15th St. and 8th Ave., to Cook-Anderson Co., Beaver. Archts. est. $150,000. Noted June 9.

Pa., Phila.—APARTMENT—S. Hankin, 5200 Gainer Rd., will build 4 story and basement, 104 x 106 ft., brick and steel, plain foundation, Washington Ave. and School Lane. Work will be done by separate contracts. Stetler & Dysher, 1008 Chestnut St., archts.

Pa., Phila. — GARAGE — Ballinger Co., archts., 12th and Chestnut Sts., 2 story, 120 x 230 ft., rein.-con. and brick addition, plain foundation, 23rd and Ludlow Sts., to H. E. Baton, 1713 Sansom St., for Auto Club of Phila. Noted Aug. 4.

Md., Baltimore — PUBLISHING — The Sun, Charles and Baltimore Sts., altering newspaper office and plant, brick, tile, steel and stone, Baltimore and Charles Sts., to Morrow Bros., Fidelity Bldg., $150,000.

D. C., Wash. — OFFICE and STOREHOUSE—Washington Gas & Light Co., 411 10th Ave. N. W., general contract office and storehouse, North Canal St. between 29th and 30th Sts. N. W., to Davis, Wick & Rosengarten Co., 1406 G St. N. W. Archts. est. $250,000.

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O., Cincinnati—HOSPITAL—Christian R. Holmes Hospital, Bethesda Ave., 4 story and basement, brick and rein.-con., plain foundation, Bethesda Ave., to M. Penker & Sons, 123 Valencia St., $450,000. Noted Aug. 18.

O., Columbus—BANK—Citizens Trust & Savings Bank, Gay and High Sts., 1 story and basement, 40 x 150 ft., brick, steel and concrete, East Town St., to L. L. LeVeque, Edgehill Rd., approximately $150,000.

O., Lorain—THEATRE—and COMMERCIAL — Midwest Properties Co., S. H. Stecher, pres. Union Bldg., Cleveland, 2 story and basement, 100 x 185 ft., brick, steel and concrete, Bway., here, to Piscopo Constr. Co., 1248 Walnut Ave., Cleveland. Archts. est. $300,000. Noted June 23.

Ind., Gary—APARTMENT—T. H. Grabowski, 1710 Bway., general contract 3 story and basement, steel and terra cotta, 900-918 5th Ave., to J. Wasielewski, 1392 Jackson St. Archts. est. $150,000. Noted Apr. 28.

Ind., Indianapolis—COMMUNITY—Park Comrs., City Hall, general contract 2 story, brick, steel and terra cotta, Brookside Park, to E. C. Strathmann, 712 Meyer-Kiser Bldg. Archts. est. $150,000.

Mich., Detroit—THEATRE, STORE and GARAGE—See "Proposed Work."

Mich., Detroit—THEATRE, STORE and GARAGE—A. Kahn, archt., 1000 Marquette Bldg., takes bids about Sept. 15, general contract 10 story with 25 story tower, and basement, 485 x 820 ft., rein.-con., brick, steel and stone, West Grand Blvd., for New Center Development Co., Fisher Bros., General Motors Bldg. Foundation for above awarded to General Excavation & Foundation Co., 1252 Book Bldg.; and steel, to Amer. Bridge Co., 1328 Buhl Bldg., Noted Jan. 27.

Mich., Muskegon — OFFICE — Muskegon Chronicle, 3 story and basement, 50 x 140 ft., brick, steel, and concrete, plain foundation, to Strom Constr. Co., 357 Houseman Bldg., Grand Rapids. Archts. est. $150,000.

Mich., Redford (Franklin Village P. O.) —CLUB—Redford County Club, Franklin Village, 1 and 2 story and part basement, 50 x 250 ft., 78 x 110 ft. and two 51 x 114 ft. wings, rein.-con. and brick, plain foundation, 13 Mile Rd., here, to N. M. Lerner Constr. Co., 1442 Griswold St. Noted June 9.

Ill. Chicago—APARTMENT—Skobel & Greenberg, 1412 Bertran Ave., masonry contract 8 story, 60 x 124 ft., brick, Lakeside Pl., to H. Janisch & Co., 1813 Winona St. Archts. est. $290,000.

Ill., Chicago—STORE—Syndicate, c/o A. Epstein, archt., 2001 West Pershing Rd., masonry contract 3 story, 131 x 150 ft., brick and terra cotta, 80,000 sq.ft. floor space, East 47th St. near South Parkway, to J. Shedden & Co., 106 North La Salle St.; and carpentry to Heidel & Beck, 6235 South Michigan Ave. Archts. est. $250,000.

Ill., Chicago — WAREHOUSE—Holabird & Roche, archts., 104 South Michigan Ave., general contract 6 story, 141 x 241 ft., rein.-con., brick and stone, 2524-58 23rd St. W., for Illinois Bell Telephone Co., 212 West Washington St., to Schmidt Bros. Constr. Co., 22 East Huron St.; plumbing, to Fort Dearborn Heating & Plumbing Co., 53 East Jackson Blvd. Archts. est. $1,100,000. Noted July 7.

Ill., East St. Lolus—OFFICE and STORE—P. J. Bradshaw, archt., International Life Bldg., St. Louis, Mo., general contract 2 story and basement, 134 x 136 ft., rein.-con., brick and terra cotta, Collinsville Rd. and Missouri Ave., here, to Murch Bros. Constr. Co., Railway Exch. Bldg., St. Louis, Mo., for Goldman Building Corp., C. E. Richardson, pres., International Life Bldg., St. Louis, Mo. Noted July 14.

Wis., Milwaukee—APARTMENT—Elms Realty Co., general contract 4 story and basement, 130 x 150 ft., rein.-con. and brick, plain foundation, 14th and Cedar Sts., to E. Steigerwald & Sons, Inc., 51st and State Sts., $150,000.

Minn., Breckenridge—COURT HOUSE—C. A. Steffes, aud., Wilkin Co., Court House, general contract 2 story and basement, rein.-con., brick and stone, here, to Redlinger & Hansen, 827 2nd Ave. S., Minneapolis, Minn. and Wahpeton, N. D., $114,800. Noted Aug. 25.

Tex., Ft. Worth—HOSPITAL—Methodist Church, c/o C. Q. Smith, chn. Hospital Comn., one unit Methodist Hospital, to Butcher & Sweeney, 806½ Taylor St., $404,399. Total $1,500,000.

Tex., Laredo—HOTEL—L. L. Stephenson, 119 Summit Ave., San Antonio, 12 story and basement addition here, to C. Schoenfeld, 324 Hunstock St., San Antonio, $400,000.

Tex., San Antonio—MERCANTILE and OFFICE—Smith Bros. Properties, Inc., c/o Plaze Hotel, general contract 25 story and basement, 110 x 140 ft., rein.-con., brick and steel, plain foundation, Bowens Island, to McKenzie Constr. Co., Travis Bldg., approximately $1,500,000. Noted Aug. 25.

Tex., Waco—HOTEL—Hilton Hotel Co., c/o C. N. Hilton, Hilton Hotel, Dallas, general contract 12 story and basement, 100 x 100 ft., brick, hollow tile, stone, steel, rein.-con. and terra cotta, here, to J. E. Johnson Constr. Co., Cameron Bldg., $291,000.

Calif., Glendale—APARTMENT—M. Dilbern, 514 South Glendale Ave., Los Angeles, 4 story and basement, 100 room, brick, Glendale Ave., to Yale Bros., 512 East Colorado St., $175,000.

Calif., Livermore — HOTEL — Livermore Hotel Co., Inc., 5 story hotel, to Elrod Constrt. Co., 354 Hobart St., Oakland, $250,000.

Calif., Los Angeles—APARTMENTS—First Natl. Holding Corp., of America, c/o R. A. Hill, archt., 301 Chester-Williams Bldg., will build 4 story and basement, brick, Hoover and Marathon Sts., by day labor and sub-contracts. $150,000.

Calif., Los Angeles—APARTMENT—F. Sward, 351 South Western Ave., will build 4 story and basement, brick, Clinton St., by day labor. $150,000.

Calif., Los Angeles—HOTEL—J. M. Close, 241 North Western Ave., will build 5 story, brick, Patton St., by day labor. $150,000.

Calif., Los Angeles—MOTION PICTURE STUDIO—Mack-Sennett Co., 2 story, 100 x 125 ft. administration building, shops, property buildings, film laboratory, etc., Ventura Blvd., to Austin Co. of California, 777 East Washington St., approximately $350,000. Noted Aug. 11.

Calif., Oakland — HOTEL—G. L. Rosebrook, archt., 1404 Franklin St., 6 story and basement, Class "A," Lake Merritt Dist., to Elrod Constr. Co., 354 Hobart St., approximately $175,000. Owners name withheld.

Calif., Oakland—STORES—J. L. Markzen, 735 Lakeshore Ave., 1 story, rein.-con., Lakeshore Ave., to L. J. Cohn, 117 Montgomery St., San Francisco, $150,000.

Buildings—Industrial

Proposed Work

Mass., Attleboro — PAPER MANUFACTURING PLANT—Amer. Reinforced Paper Co., County St., takes bids about Sept. 1, brick and steel, plain foundation, Starkey Ave. $50,000. C. T. Main, 201 Devonshire St., Boston, archt. Noted Aug. 4.

Mass., Brighton (br. Boston)—PLANT—Aug. 31, by Boston Ice Co., 110 State St., Boston, 1 story, 100 x 170 ft., brick and limestone, North Beacon St., here.

Mass., Monson — MILL — A. D. Ellis & Sons, 288 Main St., soon lets contract 3 story, 40 x 120 ft., brick addition. $50,000. McClintock & Craig, 458 Bridge St., Springfield, archt.

N. Y., Rochester — POWER PLANT — Rochester Lake Ontario Water Co., 16 Main St., having plans prepared 1 story, 200 x 200 ft., brick and steel power house. $1,000,000. J. G. White Co., 43 Exch. Pl., New York City, engrs.

N. J., Newark — PLANT — Tung-Sol Lamp Wks., Inc., 95 8th St., plans plant addition, High St. and 7th Ave. $60,000. Engineer and architect not selected.

Pa., Phila.—BAKERY, GARAGE, etc.—C. B. Comstock, archt., 110 West 40th St., New York City, soon lets contract 3 story and basement bakery; 1 story, 61 x 191 ft. garage; and 2 story, 93 x 189 ft. stable, etc., all rein.-con., brick and steel, Godfrey St. and Rising Sun Ave., for General Baking Co., Broad St., Butler. Noted Aug. 4.

Pa., Phila.—FACTORY—Central Constr. & Supply Co., 2224 Arch St., having plans prepared by Poggi & Winters, Equitable Bldg., 3 story and basement, 104 x 156 ft., brick and steel, plain foundation, Belmont and Thompson Sts.

Md., Baltimore — FACTORY — Fish Dry Cleaning Co., Inc., Pennsylvania Ave. near North Ave., plans 1 story brick and steel, plain foundation, on 135 x 411 ft. site, 25th St. and Cecil Ave. $100,000. Engineer and architect not selected.

Mississippi and Tennesse — CHEESE FACTORY, etc. — Kraft Cheese Co., 402 Rush St., Chicago, Ill., plans cheese factories and milk by-products plants at New Albany, Miss., Durant, Miss., Houston, Miss., Louisville, Miss. and Dyersburg, Tenn. $1,000,000.

Buildings—Industrial (Continued)

O., Ashtabula—FACTORY—Aetna Rubber Co. plans factory. $50,000.

Mich., Flint — FACTORY — Chevrolet Motor Co. soon lets contract 1 story, 200 x 500 ft., brick and steel addition, plain foundation. Wright & Nice, 4339 South Saginaw St., archts.

Ill., Chicago — AUTO SERVICE — Chicago-Nash Co., 2431 South Michigan Ave., having plans prepared by G. W. Klewer, 5 North La Salle St., 3 story and basement, 170 x 200 x 316 x 376 ft., rein.-con., brick, steel and terra cotta, incl. boiler room, 24th St., Prairie and Indiana Aves.

Neb., Ralston—BRICK PLANT—Kritenbrink & Son, 13th and Frederick Sts., having plans prepared and soon take bids brick plant. $100,000. Private plans.

Ont., Hamilton—FACTORY—Hutton & Souter, archts., 6 James St. S., takes bids about Sept. 1, 5 story, 260 x 280 ft., rein.-con., steel and brick, in East Hamilton, for Firestone Tire Co., 31 Cannon St. E.

Ont., Kitchener — FACTORY — B. H. Prack, archt., 42 James St. N., Hamilton, soon lets contract 3 story, 200 x 250 ft., brick, steel and concrete addition, King St. W., here, for Canadian Goodrich Co., Ltd., 521 King St., W., T. B. Tomkinson, genl. mgr. $150,000.

Ont., London—BREWERY—Carling Export Brewing Co., Talbot St., C. Burns, genl. mgr., plans 1 story, 60 x 75 ft., brick and steel addition. $50,000. Private plans.

Ont., London—FACTORY—C. S. Hyman Tannery Co., Richmond St., W. F. D. Jarvis, genl. mgr., plans rebuilding 1 story, 150 x 350 ft. factory. Richmond St., recently destroyed by fire. $250,000. Private plans.

Ont., Oshawa—GLASS FACTORY—Hutton & Souter, archts., 6 James St., Hamilton, take bids about Sept. 1, 1 story, 100 x 150 ft., brick, steel and concrete extension, Front St., here, for Phillips Co. $40,000.

Bids Desired

Conn., Bridgeport—REPAIR and SERVICE STATION—F. L. Mills Co., 2316 Fairfield Ave., taking bids 1 story, 100 x 200 ft., brick and steel, plain foundation, Dewey Sq. F. Thompson, Inc., 542 Fairfield Ave., archts. Noted Aug. 11.

N. J., New Brunswick—DYE PLANT—See "Contracts Awarded."

Pa., Phila.—SUB-STATION—Sept. 6, by J. I. Windrim, archt., Commonwealth Trust Bldg., 2 story and basement, 60 x 80 ft., rein.-con., brick and steel, concrete foundation, Westmoreland and Fox Sts., for Phila. Electric Co., 10th and Chestnut Sts.

Tenn., Old Hickory—SILK FACTORY—See "Contracts Awarded."

Ind., Muncie—FACTORY—Indiana Steel & Wire Co., South Council St., taking bids three 1 and 2 story, reni.-con. buildings, East Main St. $55,000.

Wis., Kewaunee — FACTORY — Leyse Aluminum Co., A. Leyse, mgr., taking bids 2 story and basement, 56 x 97 ft., rein.-con., brick and steel, plain foundation. Private plans. Noted Aug. 11.

Ia., Iowa City — HEATING PLANT — Sept. 9, by State Bd. Educ., State House, Des Moines, W. H. Gemmill, secy., rein.-con. and brick addition for college, here. $160,000. Proudfoot, Rawson & Souers, Hubbell Bldg., Des Moines, archts. Noted July 28.

Mo., Kansas City—WAREHOUSE and OFFICE—See "Contracts Awarded."

Tex., San Antonio—DISTRIBUTING and POWER SUB-STATIONS—See "Contracts Awarded."

Ont., Toronto — FACTORY — Harkness, Loudon & Hertzberg, engrs., Confederation Life Bldg., taking bids 3 story and basement, 70 x 130 ft., rein.-con. and steel, for Telfer Paper Box Co., Ltd., 17 Duncan St. $150,000.

B. C., Vancouver — DRY KILNS — See "Contracts Awarded."

Contracts Awarded

Mass., Marlboro — CIDER MILL and CANNING FACTORY—J. E. Rich, Main St., 1 story, rein.-con. and brick, plain foundation, Northboro Rd., to L. T. LePage, 80 Florence St. Archts. est. $40,000. Noted July 28.

Conn., New Haven — BAKERY — G. Emanuelson, 19 Townsend Ave., 2 story, 92 x 95 ft., brick and steel, State St., to C. W. Murdock, Inc., 505 Grand St. Archts. est. $50,000. Noted July 21.

N. J., Irvington (br. Newark) — FACTORY—Asher Mfg. Co., 212 Coit St., general contract 1 story, 60 x 175 ft., brick and steel addition, plain foundation, to Enstice Bros., 111 Academy St., Newark. Archts. est. $40,000.

N. J., New Brunswick—DYE PLANT—New Staten Island Dye Wks., 16 Harvey St., will build 2 story, 100 x 100 ft., brick and steel, plain foundation, Harvey St. $40,000. Work will be done by separate contracts. H. Bach, 68 Schureman Ave., archt. Noted July 14.

N. J., West New York (Ind. br. Weehawken)—FACTORY—Diamond Silk Dyeing & Finishing Co., 690 Johnson Pl., general contract 1 story, 100 x 100 ft., brick and steel, plain foundation, Johnson Pl., to Auf Der Heide Constr. Co., 443 16th St. Archts. est. $50,000.

Pa., Phila. — FACTORY and WAREHOUSE — J. G. Lorenz Corp., 1011 Chestnut St., 1 and 2 story, 40 x 97 ft., 50 x 265 ft., and 33 x 97 ft., rein.-con., brick and steel, plain foundation, 33rd and Reed Sts., to Farrell-Roth Co., 21st and Walnut Sts. Archts. est. $100,000. Noted Aug. 11.

Pa., Phila. — MANUFACTURING — Otis Elevator Co., Otis Bldg., 3 story and basement, 60 x 162 ft., rein.-con. and brick, plain foundation, 19th and Buttonwood Sts., to Doyle & Co., 1519 Sansom St. Noted Aug. 11.

Tenn., Nashville—WAREHOUSE—J. R. Love, Arcade Bldg., 2 story, brick and rein.-con., 522-8th Ave. S., to Sumner Constr. Co., 155-4th St., $40,000. Firestone Tire & Rubber Co., 1150 Broad St., lessee.

Tenn., Old Hickory—SILK FACTORY—duPont Rayon Co., Wilmington, Del., will build (3rd unit) rayon plant, here, by day labor. Archts. est. $4,000,000. duPont Eng. Co., duPont Bldg., engrs. Noted Aug. 18.

O., Cleveland — FACTORIES — H. M. Morse Co., archts., Finance Bldg., two 4 story and basement, 66 x 121 ft. and 80 x 100 ft., brick and steel, Foster Ave., to Bolton-Pratt Constr. Co., 7113 Euclid Ave., for Marble & Shattuck Chair Co., T. W. Foote, mgr., 10200 Foster Ave. Archts. est. $200,000. Noted June 30.

O., Cleveland—FACTORY—Watson and associates, 4614 Prospect Ave., 1 and 3 story, 66 x 157 ft., brick, steel and rein.-con., 3917 St. Clair Ave., to Hecker-Moon Co., 8701 Union Ave. Archts. est. $100,000.

Ind., Auburn—AUTO SERVICE—Auburn Auto Co., general contract 2 story, 70 x 280 ft., rein.-con., brick and steel, to J. R. Muhn, Auburn. Archts. est. $150,000.

Ind., Evansville — GLASS PLANT — Graham Glass Co., 1 story, 160 x 250 ft., steel addition, to Rust Engraving Co., 311 Ross St., Pittsbrgh, Pa. Archts. est. $150,000

Ind., Ligonier—FACTORY—Ligonier Refrigerator Co., general contract 3 story and basement, 50 x 95 ft., rein.-con., brick and steel, to W. R. Dunkin & Son, Huntington. Archts est. $100,000. Noted Aug. 4.

Mich., Detroit — LAUNDRY — Colonial Laundry Co., Hendrie and St. Aubin Sts., 1 and 2 story, 171 x 200 ft., rein.-con. brick, steel and concrete, St. Aubin and Hendrie Sts., to Austin Co., 11-243 General Motors Bldg.

Mich., Detroit—WAREHOUSE—A. Kahn, archt., 1000 Marquette Bldg., 3 story, 171 x 381 ft., rein.-con. and brick, plain foundation, East Grand Blvd., to Everett Winters Co., 1651 East Grand Blvd., for Packard Motor Car Co., East Grand Blvd. Noted Aug. 25.

Mich., Muskegon — NEWSPAPER PLANT—Booth Publishing Co., 2500 Buhl Bldg., Detroit, 2 story and basement, 56 x 140 ft., Clay Ave., here, to Strom Constr. Co., Houseman Bldg., Grand Rapids, $183,000.

Kan., Wichita — BAKERY — General Baking Co., 342 Madison Ave., New York City, N. Y., general contract 2 story and basement, 140 x 150 ft., rein.-con., brick and stone, Central and Frisco Sts., here, to Bickel Contg. Co., 903 Pioneer Bldg., Kansas City, Mo. Archts. est. $150,000.

Mo., Kansas City—WAREHOUSE and OFFICE—Kansas City Pub. Serv. Co., 15th St. and Grand Ave., will build 1 and 2 story, 75 x 135 ft., rein.-con., brick and stucco, 40th and Summit Sts., by day labor. Private plans.

Tex., San Antonio—DISTRIBUTING and POWER SUB-STATIONS — San Antonio Pub. Serv. Co., c/o E. H. Kifer, San Antonio, and Comal Power Co., New Braunfels, will build 2 power distributing substations south of Cementville on north side, and one on Babcock Rd., $50,000 incl. equipment; also power sub-station, on McCullough Ave., $75,000 incl. equipment, all brick, concrete and tile, by day labor. Private plans.

Ont., Hamilton—SHOP, STORE, etc.—Hamilton Street Railway Co., Terminal Sta., 1 and 2 story, 85 x 250 ft., 80 x 200 ft., and 200 x 400 ft. cement and steel shops, stores and car barns, Wentworth St., to W. H. Cooper, 6 Hughson St. N.; steel, to Hamilton Bridge Co., Bay St. N. Engrs. est. $400,000.

B. C., Vancouver—DRY KILNS—Alberta Lumber Co. Ltd., 790 6th Ave. W., will build six 12 x 120 ft. dry kilns, timber, False Creek, by day labor. $50,000. Private plans.

Buildings—Educational, Religious

Proposed Work

Mass., East Boston (Sta. Boston) — SCHOOL — Our Lady of Mt. Carmel, 124 Gove St., having sketches made by R. Gorriani, 175 Green St., Worcester, brick, plain foundation. $150,000.

Mass., Everett (br. Boston)—SCHOOL—Lady of Grace Parish, T. J. Walsh, pastor, soon lets contract 3 story and basement, 60 x 125 ft., brick, steel and limestone, Nicol St. $200,000. M. Sullivan, 100 Boylston St., Boston, archt. Noted July 28.

Mass., Newton (Boston P. O.)—SCHOOL—City, E. O. Childs, mayor, City Hall, takes bids after Sept. 10, 2 story and basement, brick and stone, plain foundation, Pine Grove Rd. and Grove St. $150,000. Henry & Richmond, 12 West St., Boston, archts.

Mass., West Bridgewater — CHURCH — St. Thomas Aquinas Church, F. S. Hart, pastor, having plans prepared by M. Sullivan, 100 Boylston St., Boston, probably brick and stone, West Center St. $150,000.

R. I., Providence—CHAPEL and PARISH HOUSE — Central Congregational Church, Angel St., will not construct 1 story and basement addition, Deman Pl. and Stimpson Ave. Project abandoned. Carrere & Hastings, 52 Venderbilt Ave., New York City, archts. Noted Apr. 14.

R. I., Warwick—SCHOOL—School Com. having preliminary plans prepared by Hutchins & French, 11 Beacon St., Boston, Mass., 2 story and basement, rein.-con., brick and stone, plain foundation, Lakewood Dist. $150,000.

Conn., Storrs—COLLEGE—State Building Comn., State House, Hartford, soon takes bids 3 story and basement, brick plain foundation, at Connecticut Agricultural College, here. $354,000. D. K. Perry, 17 Court St., New Britain, archt. Noted June 30.

N. Y., Nyack—SCHOOL—Bd. Educ. having plans prepared by E. Sibley, Bluff Rd., Palisade, N. J., 2 story, brick, and steel, plain foundation, Midland and 5th Aves. $600,000. Noted May 19.

N. Y., Rochester—HIGH SCHOOL and CONVENT—J. F. Warner, archt., 1023 Granite Bldg., soon lets contract high school and convent, Clover and Blossom Rds., for Sisters of Mercy, 90 St. Johns Park. $350,000. Noted Jan. 13.

N. J., Passaic — HIGH SCHOOL — Bd. Educ., City Hall, plans 4 story and basement, brick and steel, plain foundation. $350,000. Engineer and architect not selected.

Pa., Mt. Lebanon (Pittsburgh P. O.) — CHURCH — Mt. Lebanon Presbyterian Church, Washington Rd., having plans prepared by T. Pringle & C. W. Tufts, Ronshaw Bldg., Pittsburgh, 1 and 2 story and basement, stone church. $225,000.

Md., Baltimore — CHURCH — All Saints Roman Catholic Church, T. B. Kenny, pastor, 4408 Liberty Heights Ave., having plans prepared by Murphy & Olmsted, 1413 H. St., Wash., D. C., 1 story, brick and stone, Liberty Heights and Montgomery Ave. $225,000.

Md., Baltimore—SCHOOL—St. Joseph's Monastery, 3601 Frederick Ave., having plans prepared by Maginnis & Walsh, 100 Boylston St., Boston, Mass., 3 story, irregular shaped, stone, 3601 Frederick Ave. $450,000.

D. C., Wash.—CHURCH—Flourney & Flourney, archts., 816 Conn. Ave. N.W., soon lets contract, general contract church, Florida Ave. and 22nd St. N.W., for Church of Pilgrims (Presbyterian). $200,000.

D. C., Wash.—CHURCH, etc.—Allen & Collins, archts., 75 Newbury St., Boston, Mass., soon lets contract general contract church and parish house, 16th and S Sts., N.W., for Universalist Natl. Memorial Church. $1,000,000

Miss., Crystal Springs—SCHOOL—Voted $150,000 bonds, brick and concrete school, for Crystal Springs Consolidated School, P. K. Brice, chn.

O., Cleveland—SCHOOLS—Election Nov. 9, $1,500,000 bonds, 3 Junior High Schools, one at West 51st St. and Gifford Ave., one on Denham Ave. and East Blvd. and other

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Buildings—Educational, Religious (Cont.)

on Berkhurst Ave. and Bosworth Rd.; $800,000 bonds, 2 elementary schools, one on East 102nd St. and Byron Ave. and other on Trush Ave. and Bosworth Rd.; also $800,000 bonds, Senior High School, West 140th St. and Lakota Ave., all foregoing 3 story and basement, brick, steel and concrete. G. M. Hopkinson, Auditorium Garage Bldg., archt.

O., Columbus—ARCHEOLOGICAL—Bd. Trustees Ohio State University, C. E. Steeb, secy., having plans prepared by J. N. Bradford, Ohio State University, 2 story and basement, 60 x 120 ft., brick, stone and concrete addition, on campus. $150,000.

O., Fremont — HIGH SCHOOL — City plans Junior High School, 3 story and basement.

O., Tiffin—INFIRM HOME—Daughters of America plans home for infirm members of order. $250,000.

Minn., Northfield—MENS DORMITORY—Carleton College, D. J. Cowling, pres., soon lets contract 2 story and basement, rein.-con., brick and cut stone dormitory. $250,000. Lieberman & Hein, 109 North State St., Chicago, Ill., engrs. Holmes & Flinn, 8 South Michigan Ave., Chicago, Ill., archts. $250,000.

Kan., Wichita — HIGH SCHOOL — Bd. Educ., J. L. Leland, secy., takes bids about Jan. 1, 2 and 3 story and basement, 250 x 535 ft., rein.-con., brick and stone, 12th St. and Arkansas River. $700,000. G. H. Thomas, 405 Wheeler-Kelly-Hagney Bldg., archt.

Tex., Galveston—NURSES' HOME—University of Texas, Austin, soon takes bids 2 story, rein.-con. and brick, for John Sealy Hospital, here. $225,000. Noted Aug. 25.

Wash., Seattle—SCHOOL—F. A. Naramore, archt., Securities Bldg., takes bids about Sept. 5, 2 story and basement, 13 classroom and assembly hall, rein.-con., steel and terra cotta, 1300 West 75th St., for Seattle School Bd. 1, Securities Bldg. $170,000.

Bids Desired

Mass., Everett (Boston P. O.)—SCHOOL—Our Lady of Grace Church, T. J. Walsh, pastor, 56 Nichols St., taking bids 3 story and basement, 60 x 125 ft., brick and stone, plain foundation, 190 Nichols St. $150,000. M. Sullivan, 100 Boylston St., Boston, archt.

N. Y., Albany—LIBRARY—Sept. 6, by Bd. Contr. & Supply, City Hall, for John A. Howe Library, Schuyler, Clinton and Broad Sts. P. J. Manwiller, secy.

N. J., New Brunswick—SCHOOL—Sept. 12, by Bd. Educ., Livingston Ave., 2 story and basement, brick and steel addition, plain foundation, Stone St. $150,000. A. Merchant, 52 Patterson St., archt.

Pa., Phila.—SCHOOL—Sept. 6, by Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., 3 story and basement, 73 x 167 ft., rein.-con. and brick, plain foundation, 12th and Ogden Sts. I. T. Catharine, 19th and Chestnut Sts., archt.

Ill., East St. Louis—SCHOOL—Bd. Educ. E. W. Carnady, pres., taking bids 3 story, 62 x 185 ft., brick and stone school. $350,000. J. D. Steinbach, 155 North Clark St., Chicago, archt.

Okla., Norman—LIBRARY—Sept. 14, by Bd. of Regents, 3 story and basement, rein.-con. and stone, plain foundation, on campus, State Unversity. $500,000. Layton, Hicks & Forsythe, Braniff Bldg., Oklahoma City, archts.

Contracts Awarded

Mass., Hyde Park (Ind. sta. Boston)—HIGH SCHOOL—City of Boston, Schoolhouse Dept., 3 story and basement, irregular shaped, brick and limestone, plain foundation, Greenwood St., Metropolitan and Central Aves., here, to P. Caputo, 363 Hanover St., Boston, $1,139,903. Noted Aug. 18.

Mass., West Newbury — CHAPEL and DORMITORY — House of Angel Guardian, 11 Perkins St., Jamaica Plain, 3 story and basement, brick, plain foundation, Pipestone Hill, here, to Askin & Sullivan, 560 Mass. Ave., Cambridge. Archts. est. $200,000.

Mass., Williamstown — DORMITORY — Cram & Ferguson, archts., 248 Boylston St., Boston, 3 story and basement, brick and steel, here, to Sawyer Constr. Co., 16 Arlington St., Boston, for Williams College, Inc., H. A. Garfield, pres. Archts. est. $150,000. Noted July 28.

N. J., Roselle (Ind. br. Elizabeth) — SCHOOL—Bd. Educ., Boro Hall, Chestnut St., general contract 1 and 3 story and basement, brick and steel, plain foundation, Warren St., to C. E. Bowman Co., 41 Prospect St., Ridgewood, $101,385.

Pa., Altoona—HIGH SCHOOL—School Dist., general contract altering and constructing 2 story and basement, brick, steel and concrete addition, 5th and 6th Aves., 14th and 15th Sts., to J. C. Snyder, Altoona. Archts. est. $500,000.

Pa., Meadville—CHURCH and SUNDAY SCHOOL—First Methodist Episcopal Congregation, general contract 1 and 3 story and basement, irregular shaped, stone church and Sunday school to Natl. Concrete Fire Proofing Co., Union Mortgage Bldg., Cleveland, O. Archts. est. $150,000. Noted July 7.

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., 5 story and basement, 156 x 164 ft., rein.-con., brick and steel trade school, plain foundation, Frankford and Clementine Sts., to McCloskey Co., 1620 Thompson St., $909,730. Noted Aug. 4.

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., two 4 story and basement, 63 x 106 ft., rein.-con. and brick wings, plain foundation, 3rd and Mifflin Sts., to McCloskey Co., 1620 Thompson St. $348,230. Noted Aug. 4.

Pa., Reading—SCHOOL—School Bd., 8th and Washington Sts., 2 story and basement, 231 x 239 ft. school, 5th and Spruce Sts., to Gilpatrick-Dawson Co., Empire Bldg., Pittsburgh, $289,000.

W. Va., Wellsburg—HIGH SCHOOL—Bd. Educ., general contract brick and steel high school, to Banks & Brauneck Constr. Co., Boyd Bldg., Charleston, $187,000; and heating, to Stanton Heater Co., Martins Ferry, O., $30,235. Noted June 30.

O., Cleveland Heights (Warrensville P. O.) — CHURCH — Trinity Congregational Church, J. S. Heffner, pastor, 1565 East 117th St., Cleveland, 1 story, 54 x 100 ft., brick and stone, Taylor and Superior Rds., to W. Dunbar Co., 8201 Cedar Ave. Archts. est. $250,000. Noted Aug. 4.

O., Norwood (Ind. br. Cincinnati) — CHURCH—First Church of Christ, Weyer Ave., 2 story and basement, brick and rein.-con., plain foundation, Weyer St., to J. Hoover, 808 Main St., $250,000. Noted Aug. 18.

O., Youngstown—HIGH SCHOOLS—Bd. Educ., Junior High School, Ford Ave., to C. Shutrump & Son, Home Saving & Loan Bldg., $277,820; also Junior High School, Gibson Ave., to Hawkins-Donnie Co., 630 Market St., $283,959. Noted Mar. 31.

Mich., Detroit — SCHOOL—Bd. Educ., 1354 Bway. Ave., masonry contract, etc., 2 story, rein.-con., brick and steel, plain foundation, Hardin and Carstens site, to Corrick Bros., 507 Owen Bldg., approximately $150,000; heating, to J. W. Partlan, 13900 Goddard Ave., Detroit, $30,000.

Wis., Milwaukee—SCHOOL of NURSING—St. Marys Hospital, general contract 5 story and basement, 117 x 203 ft. school of nursing, Lake Dr., to Starck & Co., 130 Muskego Ave., $300,000.

Minn., Mankato—SCHOOLS—Sts. Peter and Paul Church, general contract two 2 story and basement, rein.-con., brick and stone schools, to Otto Neitge, Mankato. Archts. total est. approximately $200,000. Noted Aug. 4.

Mo., Clayton — CONVENT — Carmelite Convent, 18th and Victor Sts., St. Louis, general contract 2 story and basement, 150 x 200 ft., rein.-con. and brick, Clayton and Price Rds., to C. W. Schuler, 2838 Texas St., St. Louis. Noted Aug. 4.

Tex., Amarillo—SCHOOLS—Bd. Educ., 2 story and basement, 140 x 160 ft., brick and rein.-con. school, to Ledford & Tucker, Oliver-Eakle Bldg., $113,311, and 1 story and basement, brick and concrete school, to J. D. Singleton, Amarillo, $44,230. Noted June 9.

Okla., Edmond—SCHOOL—Central State Teachers' College, State Bldg., Oklahoma City, general contract 2 story and basement, 90 x 133 ft. physical educational school, rein.-con., brick and stone, here, to Smiser Constr. Co., 613 North Hudson St., $115,984. Noted June 23.

Calif., Belmont — CONVENT — Notre Dame Convent, general contract 2 and 3 story, steel and rein.-con., to Schuler & Masdonald, 1723 Webster St., Oakland, $210,000.

Calif., Los Angeles — CHURCH — First United Presbyterian Church, 1 story, 90 x 144 ft., with 80 ft. dome, rein.-con., West Blvd. and Washington St., to Wuster Constr. Co., 810 South Spring St., $186,000. Noted June 23.

Calif., Los Angeles — CHURCH — United Presbyterian Church, 901 South Figueroa St., 90 x 144 ft., rein.-con., Washington Blvd., to Wurster Constr. Co., Natl. City Bank Bldg., $185,600.

Calif., San Luis Obispo—SCHOOL—Bd. Trustees San Luis Obispo High School Bd., general contract remodeling 2 story and basement, 150 x 250 ft. main building into Junior College, also 1 story domestic science building and 1 story, 33 x 80 ft. shower and locker room, etc., to O. V. Eckles, 41[illegible]-43rd St., San Diego, $128,546, brick work, to H. Vandehoogan, 1135 Scofield St., Glendale, $60,928, lath and plastering to W. Cunningham, Commercial Bldg., San Jose, $41,782. Grand total $231,256. Noted July 21.

Federal Government Work

Proposed Work

N. Y., Beacon—Road—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., rejected bids Aug. 17, constructing road at U. S. Veterans Hospital 98, Castle Point, near here. Noted Aug. 4.

Calif., San Diego—Quarters—Spec. 5322—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans constructing sick officers' quarters and gate house, at Naval Operating Base (Hospital), here.

T. H., Pearl Harbor—Generating Plant Equipment—Spec. 5481—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans steam generating equipment and piping, at Naval Operating Base, (Submarine Base), here.

T. H., Pearl Harbor—Barracks—Spec. 5407—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans 5 buildings, incl. barracks, subsistence building, laundry and boilers house, at Naval Operating Base (Submarine Base), here.

Bids Desired

N. Y., Albany—Dredging—Sept. 26, by U. S. Engineer Office, Army Bldg., 39 Whitehall St., New York City, dredging in Hudson River, here; adv. E. N.-R. Sept. 1.

N. Y., Mineola—Barracks—Sept. 26, at office Constructing Quartermaster, Mitchell Field, 4 air corps barracks, etc., at Mitchell Field, here; adv. E. N.-R. Sept. 1. Noted Sept. 2, 1926, under "Wash., D. C."

Pa., Johnstown—Remodeling—Sept. 20, by Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling, mailing platform, installing new lift, lighting fixtures, etc., at U. S. Post Office, here; adv. E. N.-R. Sept. 1.

D. C., Wash.—Additional Stories—Sept. 21, by Treas Dept., at office Supervising Archt., additional stories, etc. to United States Liberty Loan Building, here; adv. E. N.-R. Sept. 1.

D. C., Wash.—Steel—Sept. 8, at office A. L Flint, genl purch. office, Panama Canal, steel for bridge across Miraflories Spillway Channel.

Va., Norfolk — Enclosure — Sept. 7, by Treas. Dept., at office Supervising Archt., Wash., D. C., enclosure at Marine Hospital, here.

Ga., Atlanta—Refrigerating Plant—Sept. 13, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., complete refrigerating plant at U. S. Veterans Hospital 48, here.

Miss., Gulfport—Roads—Sept. 20, by U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., grading, concrete roads and walks, at U. S. Veteran's Hospital 74, here. Noted Aug. 11.

Ind., Columbus — Remodeling — Sept. 15, by Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

Mich., Cheboygan—Retaining Walls, etc.—Sept. 13, by Treas. Dept., at office Supervising Archt., Wash., D. C., retaining walls, grading, etc. at U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

Missouri—Dikes—Sept. 8, by U. S. Engineer Office, 428 Customhouse, St. Louis, 6,000 lin.ft. piling dikes or hurdles in Mississippi River, at Missouri Sister Island, here; adv. E. N.-R. Sept. 1. Noted Aug. 11.

Colo., Denver—Emergency Gates, etc.—Sept. 20, by Bureau Reclamation, two 3½ ft. x 3½ ft. high pressure emergency gates and two 50 in. riveted plate steel outlet pipes for Stony Gorge Dam, Orland Project, California. P. W. Dent, acting comr.

Calif., Los Angeles—Dredging—Sept. 21, by U. S. Engineer Office, 725 Central Bldg., dredging in Los Angeles Harbor, here.

T. H., Pearl Harbor—Chimneys—Spec. 5412—Oct. 5, by Bureau Yards & Docks, Navy Dept., Wash., D. C., rein.-con. chimneys with brick linings at Naval Operating Base, here; adv. E. N.-R. Sept. 1.

Contracts Awarded

N. Y., New York—Doors—Spec. 5389—Bureau Yards & Docks, Navy Dept., Wash., D. C., vertical rolling doors at Navy Yard, here, to Cornell Iron Wks., 36-13th St., Long Island City, $3,930. Noted Aug. 25.

Federal Government Work (Continued)

Pa., Pittsburgh—Beartrap Leaves—U. S. Engineer Office, 2 sets beartrap leaves for Lock 5, Ohio River, here, to Independent Bridge Co., Neville Island, $71,933. Noted July 28.

La., New Orleans—Earthwork—U. S. Engineer Office, 1,595,000 cu.yd. earthwork in Lower Tansas, Atchafalaya (back) and Red River Atchafalaya and Bayou Boeuf Levee Dist., incl. Nielville Crevass Levée, to Adema-Gravolet Constr. Co., Inc., Pinte-a-la-Haiche, $48,300; Glasscok Crevass, to H. B. Blanks, Angola, $57,120; McCrea Crevass Levee, from O. O. Ogden, Baton Rouge, $120,000; also winter quarters at Crevass Levee, to Dameron & Kenyon, Inc., Port Allen, $81,000. Grand total $306,420.

O., Dayton—Distribution System—Constructing Quartermaster, Wright Field, underground electric distribution system in Wright Field to R. A. Phelps, South Beloit, Ill., $34,722; pipe tunnels, to Danis-Hunt Co., 1st and Webb Sts., $38,750; roads, to Churchill-Ench Constr. Co., Lima, $25,871; also roof, side walls and floor of generator power house, to E. H. Latham Co., 447 Neilston St., Columbus, $24,678. Grand total $124,021. Noted Aug. 11.

Mich., Mt. Clemens — Barracks — Constructing Quartermaster, Selfridge Field, 2 story and basement, 25 x 38 ft., rein.-con., brick and steel, plain foundation, Selfridge Field, here, to M. H. Sobel Co., 648 Book Bldg., Detroit. Archts. est. $175,000. Noted July 21.

Ill., Chicago—Dredging—U. S. Engineer Office, Chicago, dredging in North Branch Canal, Chicago River, to Fitz Simons & Connell Dredge & Dock Co., 10 Soth La-Salle St., $21,060.

Ill., Great Lakes (mail Waukegon)—Pipe Covering—Spec. 5375—Bureau Yards & Docks, Navy Dept., Wash., D. C., pipe covering for heating system, to Asbestos & Magnesia Materials Co., 1148 West Madison St., Chicago, $25,877.

Missouri—Pile Dikes—U. S. Engineer Office, St. Louis, pile dikes in Mississippi River at Crains Island, here, to Kansas City Bridge Co., 510 Orear Leslie Bldg., Kansas City (informal offer) $117,958. Noted Aug. 11.

Mo., Kansas City—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office and Court House, here, to W. MacDonald Constr. Co., Syndicate Trust Bldg., St. Louis, $6,450. Noted July 21.

Mo., St. Louis—Barges—U. S. Engineer Office, 428 Custom house, 6 steel barges, to Howard Shipyard & Dock Co., Jeffersonville, Ind., $49,272. Noted Aug. 18.

Colorado—Roads—J. W. Johnson, dist. engr. Bureau Pub. Roads, Custom House, Denver, grading 1.19 mi. Mt. Evans, Chicago Creek Rd. 2, Natl. Forest Road Project Clear Creek Co., to E. H. Honnen, Box 391, Colorado Springs, $49,662; 7.3 mi. Crush Creek Section Eagle-Thomasville Natl. Forest Development Rd. Project, Eagle Co., to C. A. Switzer, Arvada, $55,814; 4.34 mi. Nut Creek Road 2, Pike Natl. Forest, Douglas and Teller Counties, to W. A. Colt & Son, Los Angeles, Calif., $59,683; and 3.46 mi. South St. Vrain 3, Natl. Forest Road Project, Boulder Co. to L. E. Smith & Co., 1425 South Gaylord St., Denver, $60,563. Grand total $225,812. Noted May 9 and 19.

California—Road—C. H. Sweetser, dist. engr. Bureau Pub. Rds., Sheldon Bldg., San Francisco, grading, etc., 11.85 mi. San Marcos Extension in Santa Barbara Natl. Forest, Santa Barbara Co., to Hollywood Granite Co., 1137 North Orange Grove Ave., Hollywood, $118,361. Noted July 28.

Calif., San Diego—Repairs—Spec. 5471—U. S. Engineer Office, repairing mooring dolphins at Naval Operating Base (Destroyer Base), to Barclay & Schaniel, San Diego, $15,265.

Cuba, Guantanamo — Gasoline Tank — Spec. 5348—Bureau Yards & Docks, Navy Dept., Wash., D. C., gasoline tank, here, to Austin Eng. Co., Inc., 564 Southern Blvd., New York City, $10,200. Noted Aug. 4.

Unclassified

Proposed Work

Shelters — Cambridge (Boston P. O.), **Mass.**—City, J. T. Terry, Building Dept., making plans two 1 story, concrete shelters, one at Corporal Burns Playground, and other Rindge Field. $25,000 each. E. T. P. Graham, 171 Newbury St., Boston, archt.

Airport—South Dartmouth, Mass.—E. H. Green, Rounds Hill, making plans airport, Rounds Hill. $250,000. A. B. Drake, 164 Williams St., New Bedford, engr.

Golf Course — Springfield, Mass. — City Council appropriated $100,000, 351 acre golf course, near here, for Park Comn. Engineer not selected.

Swimming Pool — Phila., Pa. — E. A. Schoeppe, archt., 1437 Spruce St., Phila., making plans rein.-con. swimming pool, 45,000 sq.ft., Baltimore Pike, near here. Owner's name withheld.

Gas Mains — Tennessee — Washington County Gas Co., Johnson City, plans gas mains from Johnson City to Elizabethton, via Milligan College and Happy Valley. To exceed $5,000.

Swimming Pool, etc.—Cleveland, O.—City, W. R. Hopkins, city mgr., plans swimming pool and bath house. $350,000. S. Newman, City Hall, engr.

Tunnel—Michigan and Ontario—Detroit River Subways Co., Windsor, Ont., making plans 1 mi. vehicular tunnel, 30 in. diam., 24 ft. roadway from Detroit, Mich. to Windsor, Ont. $10,000,000. Parsons, Klapp, Brickerhoff & Douglas, 84 Pine St., New York City, engrs.

Grade Separation—Pontiac, Mich.—Grand Trunk Ry., J. A. Herman, 400 East Jefferson Ave., Detroit, making plans grade separation by constructing 3 track steel and concrete bridge, 40 ft. clear roadway, etc. here. $100,000.

Fire and Police System—St. Paul, Minn. —See "Buildings-Commercial"

Gas Pipe Line—Texas—San Angelo Gas Serv. Co., San Angelo, made plans 73 mi. natural gas pipe line from North Coleman Co. fields to Miles. $300,000. Private plans.

Gas Pipe Line—Texas and Oklahoma—Phillips Petroleum Co., Borger, made plans 20 mi. gas pipe line from point near Borger, Tex. to Bartlesville, Okla. $175,000. Private plans.

Plant Electrification — Amarillo, Tex. — Reagan County Purchasing Co., c/o H. J. Corcoran, pres. (subsidiary of Marland Gas & Oil Co., Ponca City, Okla.), making surveys, etc. electrification pumping equipment in oil fields on Edwards Plateau in Trans-Pecos fields. $250,000. Private plans.

Transmission Lines—Eastland, Tex.—Oil Belt Power Co., c/o J. E. Lewis, making plans 265 mi. high power transmission lines radiating from here. $300,000. Private plans.

Oil Pipe Line — Wichita Falls, Tex. — Wichita Pipe Line Co., c/o City Natl. Bank Bldg., making plans and takes bids in September, 35 mi. 10 in. oil pipe line west of here. $125,000. Private plans.

Gas System—Alva, Okla.—Empire Gas Co., Bartlesville, plans natural gas system, here. $75,000. Private plans.

Gas System—Mooreland, Okla. — City made preliminary plans natural gas distribution system. $40,000. H. Dunbar, mayor. Engineer not selected.

Grain Elevator—Oklahoma City, Okla.—Oklahoma City Mill & Elevator Co., 1st and Francis Sts., had preliminary plans prepared new grain elevator. $75,000. S. Draper, secy. Engineer not announced.

Gas System—Shattuck, Okla.—Empire Gas Co., Bartlesville, plans natural gas system, here. $45,000. Private plans.

Underpass—Shawnee, Okla.—Making preliminary plans 2 span 88 ft. rein.-con. underpass under tracks Santa Fe R.R. on Highland Ave. $40,000. F. D. Brown, Shawnee, engr.

Gas System—Woodward, Okla.—Winchester Oil Co., Blackwell, plans natural gas system, here. $60,000. Private plans.

Wharf and Sheds—Vancouver, B. C.—W. G. Swan, engr., 718 Gran St., takes bids Sept. 15, new industrial and shipping area, incl. 700 x 200 ft. wood pile and timber wharf, sheds, etc., on Coal Harbor, for Great Western Timber Corp., c/o engineer. $225,000.

Bids Desired

Track Installation, etc. — New York — Sept. 9, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, tracks and other work for parts 14th St.-Eastern Line Rapid Transit R. R., Brooklyn and Queens Boros.

Station Finish—Brooklyn, N. Y.—Sept. 16, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, station finish for part 14th St.-Eastern Rapid Transit R.R., here.

Airport—Flushing, N. Y.—See "Contracts Awarded."

Bath House—New Rochelle, N. Y.—Sept. 14, at office Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, constructing bath house at Glen Islands Park, here, Contr. 58; and plumbing, Contr. 58B. J. Downer, ch. engr.; adv. E. N.-R. Sept. 1.

Subway—New York, N. Y.—Sept. 23, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., constructing Sects. 1 and 2 Route 45, part Bway.-4th Ave. Rapid Transit R.R. Noted Aug. 25.

Fire Sprinklers—New York, N. Y.—Sept. 28, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, automatic fire sprinklers at Manhattan State Hospital, Wards Island, here; adv. E. N.-R. Sept. 1.

Electrical Work—Willard, N. Y.—Sept. 14, by Commissioner Mental Hygiene, Capitol, Albany, electrical work, exit facilities fire stops, etc. at Willard State Hospital, here; adv. E. N.-R. Sept. 1.

Tunnel—Vancouver, B. C.—Sept. 22, by British Columbia Electric Ry. Co. Ltd., P. Lewis, purch. agt., for bridge river tunnel, boring 13,200 ft. tunnel, 12 ft. diam., surge chamber and shaft, etc.; adv. E. N.-R. Sept. 1.

Contracts Awarded

Elimination of Grade Crossing—New York—A. W. Brandt comr. Highways, Albany, eliminating grade crossing on Southern State Parkway, Sect. 1, Part 3, Nassau Co., to Westchester Constr. Co., Ft. Plain, $110,580. Noted Aug. 25.

Air Port—Flushing, N. Y.—New York City Airport, Inc. c/o T. E. Donovan, 51 East 42nd St., New York City, will construct airport, incl. landing field, golf course, hangars, machine shop (10 buildings), etc., here, by day labor. $250,000. L. C. Smith, 444 Jackson Ave., Long Island City, engr.

Hoists—Syracuse, N. Y.—T. F. Farrell, comr. Canals & Waterways, Albany, 2 motor driven hoists, to Amer. Hoist & Derrick Co., 63 South Robert St., St. Paul, Minn., $5,164. Engrs. est. $5,000. Noted Aug. 4.

Transmission Line — Texas — Central Power & Light Co., c/o Frost Bldg., San Antonio, will build 25 mi. new line from east side Fayette Co. line through Gonzales Co. to Harwood, by day labor. $100,000. Priavte plans.

Lighting System—Ontario, Calif.—Ornamental lighting system on A St. and Euclid Ave., etc., to Arcadia Constr. Co., Arcadia, $49,746.

Grain Elevator, etc. Vancouver, B. C.—Vernon & Buckerfield, 321-1st Ave. E., 110 x 204 ft., grain elevator and feed mill heavy timber, wood pile foundation, Rogers St. and Burrard Inlet, to Carter-Halls-Aldinger Co., 500 Beatty St., $100,000.

Materials

Bids Desired

Asphaltic Cement — Brooklyn, N. Y. — Sept. 8, by J. J. Byrne, pres. Brooklyn Boro, 400,000 gal. asphaltic cement; 4,800 cu.yd. binder stone; 4,000 cu.yd. asphalt sand; and 2,500 tons limestone or other suitable inorganic dust.

Structural Steel, etc.—Phila., Pa.—Sept. 8, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., structural steel for bridges, Contr. 104-1927; frogs and crossings, Contr. 105-1927; wire fencing and nails, Contr. 106-1927; and piston heads, Contr. 107-1927.

Portland Cement—Tennessee—Sept. 16, by State Dept. Highways & Pub. Wks., Nashville, portland cement for concrete paving 45 mi. roads. C. N. Bass, highway comr.

Bids Received

Portland Cement—Minnesota—State Hy. Comn., St. Paul, Aug. 16, approximately 36,857 bbl. portland cement, from Dewey Portland Cement Co., 301 Mutual Bldg., Kansas City, Mo., at $2.52 per bbl. Noted Aug. 4.

Contracts Awarded

Water Pipe—Chicago, Ill.—City, Room 406, City Hall, 570 tons 8 in. c.i. water pipe at various city pipe yards, to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., $36.20.

See proposal advertising on page 141

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Unit Price Lists Published in August, 1927

		Issue of
Bridges	Washington	Aug. 4
Bridge	Portland, Ore	Aug. 11
Bridge	Chicago, Ill.	Aug. 11
Bridge	Oakland, Calif.	Aug. 11
Bridge	Alton, Ill.	Aug. 18
Bridge	Missouri	Aug. 18
Bridge	Norfolk, Va.	Aug. 25
Dike	St. Louis, Mo	Aug. 4
Filtration Plant	Grand Haven, Mich.	Aug. 11
Paving	Philadelphia, Pa.	Aug. 25
Paving, Road Work and Sewers.	Runnemede, N. J.	Aug. 18
Retaining Walls	Cedar Rapids, Iowa	Aug. 25
Road	Texas	Aug. 4
Road	New Hampshire	Aug. 4
Road	Port Huron, Mich	Aug. 4
Road	Wyoming	Aug. 18
Sewers	Union, N. J.	Aug. 4
Sewers	Chicago, Ill.	Aug. 4
Sewerage System	New Jersey	Aug. 18
Water Main	Houston, Tex	Aug. 4

Sidewalk, Curb, Gutter and Road Work Mt. Ephraim, N. J.

Bids were opened by the Boro. of Mt. Ephraim, June 13, for laying sidewalks, curbs and gutters, and improving streets, from (A) New Era Concrete Co., Camden, (awarded contract); (B) Frank Sweeten, Camden; (C) John Lafferty, Haddon Heights. The unit bids are as follows:

	A	B	C
21,000 cu.yd. excav. (roadway)	$0.55	$0.60	$0.65
125,000 sq.ft. sidewalk (4 in.)	.185	.19	.19
1,600 lin.ft. curb and 48 in. gutter (6 in.)	1.25	1.30	1.60
5,400 lin.ft. curb and 36 in. gutter (6 in.)	1.00	1.10	1.20
24,000 lin.ft. curb and 24 in. gutter (6 in.)	.87	.95	.95
1,500 sq.yd. 8 in. reinforced concrete gutters	2.40	2.80	2.85
60 lin.ft. T.C. sewer	2.15	4.00	2.00
2 city inlets, complete in place	100.00	85.00	60.00
	$66,884	$71,780	$73,755

Engineering News-Record, Issue of Sept. 1, 1927

Pipe Line—Massachusetts

Bids were opened by Metropolitan Dist. Water Supply Comm., Boston, (lowest three and highest) June 3, for Contr. No. 11, constructing 24-in. pipe line from Ashland Reservoir to gate house at Framingham Reservoir No. 2 in towns of Ashland and Framingham, from (A) Antonio Mogavero, 6 Dane St., Peabody, (awarded contract); (B) Lock Joint Pipe Co., Ampere, N. J.; (C) Mark E. Kelley Co., Inc., 35 Foster St., Peabody; (D) V. J. Grande, 100 Academy Hill Rd., Boston. The unit bids are as follows:

	A	B	C	D
Connection to 48 in. outlet pipe of Ashland Reservoir (lump sum)	$1,800.00	$1,800.00	$2,170.00	$4,200.00
13,500 lin.ft. furnishing 24 in. C.I. pipe or;	5.30	......	6.23	5.75
13,500 lin.ft. 24 in. rein. con. cylinder pipe at Ashland reservoir	.....	6.00	.....	....
1,000 lin.ft. furnishing 20 in. C.I. pipe and special castings	4.30	5.50	5.26	5.00
13,500 lin.ft. laying 24 in. pipe and special castings	0.65	0.50	0.79	4.00
1,000 lin.ft. laying 20 in. C.I. pipe and special castings	0.65	1.30	0.65	5.00
12.500 cu.yd. earth excav., fill and refill	1.49	1.40	1.60	2.00
100 cu.yd. rock excav. and refill	5.00	4.00	7.00	8.00
Upper crossing of Framingham Reservoir No. 2 (lump sum)	900.00	1,000.00	1,750.00	2,500.00
Crossing of Boston & Albany Railroad (lump sum)	3,500.00	6,000.00	768.00	2,500.00
Connection to gate house and lower crossing of reservoir (lump sum)	11,000.00	7,000.00	6,349.00	6,000.00
10 cu.yd. furnishing and placing paving	10.00	10.00	8.00	10.00
75 cu.yd. furnishing and placing riprap	8.00	4.00	4.00	7.00
50 cu.yd. furnishing and placing concrete	20.00	30.00	20.00	12.00
120 lin.ft. furnishing and placing 18 in. C. I. culvert pipe	7.50	5.50	6.05	5.00
Furnishing and constructing three 6 in. blow-offs	150.00	200.00	200.00	100.00
Furnishing and constructing two 4 in. blow-offs	150.00	100.00	175.00	50.00
Furnishing and constructing one 2 in. air-relief	100.00	100.00	150.00	25.00
Installing 20 in. x 10 in. Venturi meter and appurtenances (lump sum)	100.00	300.00	460.00	1,200.00
Totals	$125,150	$132,010	$136,083	$186,075

Engineering News-Record, Issue of Sept. 1, 1927

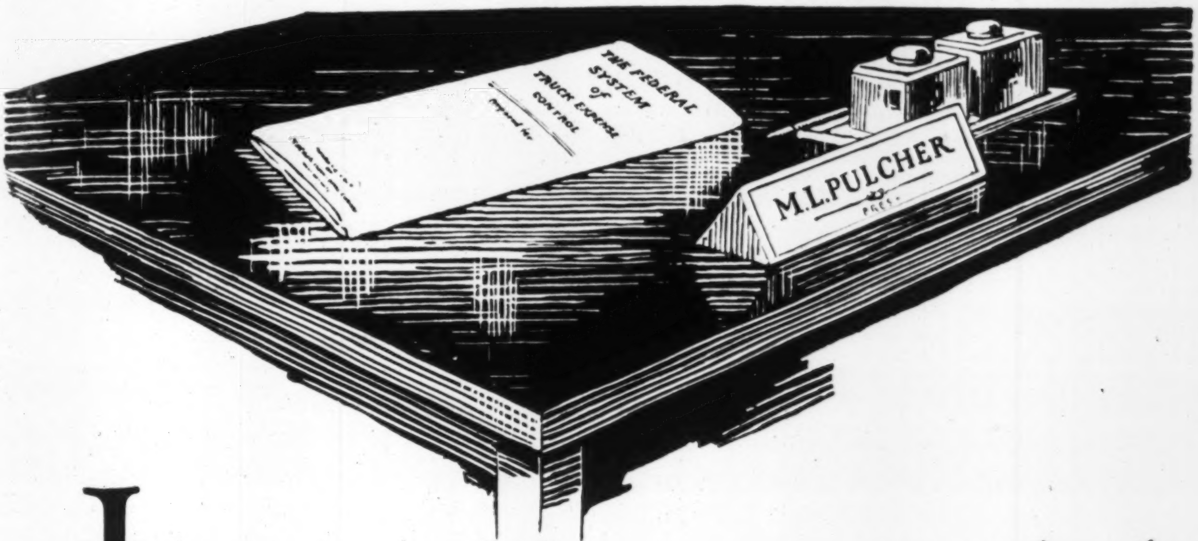
Sewer—Syracuse, N. Y.

Bids were opened by City, June 30, for constructing Burnet Ave. Relief Sewer, Sherwood and Teall Ave. connections, from (A) C. T. Hookway, Weiting Bldg., (awarded contract); (B) Mondo Construction Co.; (C) Bird & Street Bros.; (D) Pepper Bros.; (E) Charles Bonn. The unit bids are as follows:

	A	B	C	D	E
700 cu.yd. excavation	$2.00	$2.00	$0.90	$3.00	$5.00
500 cu.yd. lining	2.50	4.00	3.00	4.25	1.20
500 lb. metal reinforcement	.10	.10	.10	.10	.10
50 cu.yd. concrete class "A"	12.00	25.00	22.00	30.00	22.00
50 cu.yd. concrete class "B"	10.00	22.00	18.00	28.00	20.00
8 sets manhole frames and covers	25.00	20.00	25.00	20.00	16.00
45 lin.ft. standard manhole, 2 ring	12.00	10.00	10.00	10.00	12.00
18 lin.ft. standard manhole, 3 ring	20.00	15.00	15.00	15.00	20.00
25 lin.ft. 10-in. catch basin laterals	3.00	2.50	2.50	2.00	2.00
65 lin.ft. 12-in. V. P. inlets	2.00	3.00	2.60	3.50	2.20
970 lin.ft. 66-in. reinforced concrete pipe sewer	35.00	35.00	40.00	42.00	59.00
80 lin.ft. 66-in. reinforced concrete pipe (in tunnel)	50.00	60.00	70.00	76.00	67.00
358 lin.ft. 60-in. reinforced concrete pipe	22.00	30.00	30.00	35.00	41.00
695 lin.ft. 54-in. reinforced concrete pipe	17.00	25.00	20.00	32.00	35.00
310 lin.ft. 42-in. reinforced concrete pipe	13.00	18.00	18.00	25.00	30.00
310 lin.ft. 36-in. reinforced concrete pipe	14.00	16.00	18.00	22.00	35.00
Junction Chamber-Sherwood Ave. (lump sum)	500.00	1,500.00	1,500.00	600.00	900.00
Junction Chamber-Teall Ave. (lump sum)	500.00	1,200.00	1,500.00	600.00	900.00
Diversion Chamber-Sherwood (lump sum)	1,200.00	2,000.00	2,000.00	3,400.00	2,600.00
Diversion Chamber-Teall (lump sum)	1,400.00	2,000.00	2,000.00	3,700.00	2,600.00
Alterations to manhole Beech and Canal (lump sum)	50.00	50.00	100.00	200.00	50.00
Totals	$74,766	$91,093	$92,632	$112,993	$136,264

Engineering News-Record, Issue of Sept. 1, 1927

UNIT PRICES ***Continued on page 116a***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M. L. Pulcher
President

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(124)

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Federal Motor Truck Co.,
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Attention of........................

Street Address........................

City and State........................

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Sewage Treatment Works—Chicago, Ill.

Bids were opened by Sanitary District of Chicago, July 7, for constructing West Side Sewage Treatment Works, Divisions D and J, pumping station, tanks, grit chambers, etc., from (A) T. J. Forschner Contracting Co., 5201 West Pershing Rd., (awarded contract); (B) Mid-Continent Construction Co.; (C) Tully & Costello, 30 North LaSalle St.; (D) E. W. Sproul Construction Co., 310 South Michigan Ave. The unit bids are as follows:

Division D	A	B	C	D
50,000 cu.yd. earth excavation in open cut	2.10	1.50	3.00	1.25
3,500 cu.yd. earth excavation in tunnel	16.00	11.00	15.00	5.00
5 cu.yd. rock excavation in open cut or tunnel	5.00	5.00	5.00	5.00
75,000 cu.yd. backfilling and embanking	1.50	1.00	2.00	1.10
2,000 cu.yd. replacing top soil	2.00	1.75	2.00	1.77
1,000 cu.yd. sand or gravel fill	4.50	4.00	4.00	3.32
2,400 portions of concrete piles, 18 ft. or less in length	60.00	72.00	54.00	58.75
23,000 lin.ft. additional lengths of concrete piles over 18 ft	3.60	4.00	3.00	2.03
1,500 cu.yd. enlarged concrete pile footings	30.00	28.00	25.00	23.40
100 portions of timber piles, 20 ft. or less in length, used in composite piles	30.00	30.00	20.00	31.84
1,000 lin.ft. additional lengths of timber piles, over 20 ft. used in composite piles	1.25	1.50	1.00	1.30
100 tests for supporting capacity of piles	200.00	100.00	192.50	227.50
6,000 cu.yd. concrete, Class A	18.00	19.00	17.50	18.14
8,500 cu.yd. concrete, Class B	28.00	30.00	27.50	40.26
15,500 cu.yd. concrete, class C	28.00	32.00	28.50	50.00
500 cu.yd. concrete, Class D	14.00	14.00	14.00	14.00
1,000 bbl. additional cement, as ordered	3.00	3.00	3.00	3.00
3,600 sq.ft. granolithic finish	.25	.30	.35	.19
500 cu.yd. brick masonry	40.00	35.00	40.00	32.40
5,000 sq.ft. sheet mastic, ¾-in	.60	.50	.45	.52
3,700,000 lb. reinforcement steel	.06	.055	.07	.09
160,000 lb. miscellaneous wrought-iron, ingot-iron and steel	.1[illegible]	.15	.13	.18
75,000 lb. subway grating	.16	.17	.15	.21
60,000 lb. miscellaneous iron castings	.15	.18	.15	.22
5,000 lb. galvanizing	.06	.05	.05	.04
5,000 lb. miscellaneous brass, bronze and copper	1.00	.80	1.00	.33
1,000 lin.ft. 8-in. vitrified sewer pipe	1.00	.75	1.25	2.79
1,000 lin.ft. 12-in.	1.50	1.25	1.50	3.31
1,000 lin.ft. 24-in.	4.00	3.00	6.00	6.80
240,000 lb. cast-iron pipe, bell and spigot	.08	.10	.10	.11
63,000 lb. cast-iron pipe, flanged	.10	.13	.12	.16
100,000 lb. cast-iron specials, bell and spigot	.12	.14	.15	.23
120,000 lb. cast-iron specials, flanged	.15	.19	.15	.26
1,500 lin.ft. wrought-iron pipe and fittings, 1-in. and smaller	.60	.50	.50	.92
1,000 lin.ft. 1¼ and 1½-in	.75	.65	.70	1.19
4,500 lin.ft. 2-in	1.00	.85	1.20	1.28
1,500 lin.ft. 3 and 4-in	3.00	2.25	5.00	3.86
150 lin.ft. 5 and 6-in	6.00	4.50	8.00	9.71
1,000 lin.ft. 8-in	9.00	7.50	9.50	11.97
1,000 lin.ft. 14-in	18.00	16.50	18.00	24.05
5,500 lin.ft. pipe railing	3.00	2.25	3.00	2.91
125 valves, 1-in. and smaller	2.00	2.00	3.00	4.35
150 1¼ and 1½-in	3.00	2.75	4.00	7.00
100 2-in	4.50	4.75	5.00	10.00
10 3-in	20.00	18.00	18.00	29.50
10 4-in	30.00	26.00	30.00	42.80
10 5 and 6-in	60.00	52.00	52.00	61.60
5 8-in	80.00	69.00	70.00	102.00
1 12-in	150.00	125.00	115.00	230.00
5 sluice gates, 6-in	140.00	110.00	135.00	136.00
10 8-in	175.00	165.00	155.00	157.20
30 floor stands	50.00	45.00	47.50	99.00
1,000 lin.ft. insulation for cold water piping, 2-in. and smaller	.30	.25	.50	2.10
1,000 lin.ft. 2½ to 4-in	.60	.45	.75	2.99
1,000 lin.ft. 6 and 8-in	1.00	.75	1.00	4.61
100 sq.ft. sidewalk lights	5.00	4.00	6.00	4.68
300,000 lb. installing sewage meter tubes furnished by Sanitary District	.04	.06	.05	.12
21 installing sewage meter registers furnished by Sanitary district	150.00	100.00	85.00	123.81
400,000 lb. installing gates and valves furnished by Sanitary District	.06	.07	.05	.13
30,000 lb. installing sludge ejectors and air receivers furnished by Sanitary District	.06	.08	.05	.10
Timber gates and miscellaneous wood work (lump sum)	4,500.00	3,850.00	5,380.00	3,885.00
Sump pump (lump sum)	1,500.00	1,750.00	1,345.00	1,139.00
Sludge and scum conveyors (lump sum)	55,000.00	49,750.00	62,000.00	46,000.00
Screenings, ejectors and storage tanks (lump sum)	45,000.00	38,300.00	42,800.00	27,000.00
Coarse screens (lump sum)	45,000.00	49,275.00	58,975.00	38,000.00
Division J	A	B	C	D
1,300,000 lb. structural steel	.09	.085	.075	.10
40,000 lb. reinforcement steel	.06	.055	.07	.09
500 cu.yd. concrete in superstructure	30.00	45.00	46.00	39.00
4,500 sq.ft. granolithic finish	.25	.30	.50	.19
100 cu.yd. concrete in sub-pier. cap	22.00	24.00	23.50	39.00
4,000 cu.ft. sub-piers	2.50	2.25	1.95	.97
Pumping station superstructure (lump sum)	796,925.00	788,200.00	831,700.00	603,000.00
Chimney superstructure (lump sum)	30,000.00	23,400.00	37,800.00	17,000.00
Electrical work (lump sum)	825,000.00	948,750.00	958,000.00	1,072,500.00
Erection of pumping equipment and air compressors (lump sum)	20,000.00	23,500.00	31,250.00	16,250.00
Thirty-five ton traveling crane (lump sum)	20,000.00	18,700.00	22,250.00	16,952.00
Ten-ton traveling crane (lump sum)	6,500.00	6,100.00	6,825.00	5,140.00
Passenger and freight elevator (lump sum)	7,000.00	5,800.00	5,250.00	8,273.00
Sewage screens	30,000.00	32,400.00	35,000.00	32,500.00
Floor grating (lump sum)	3,500.00	3,700.00	3,150.00	3,046.00
Service-water and gas piping (lump sum)	5,000.00	3,875.00	6,300.00	5,877.00
150 lin.ft. wrought-iron pipe, 2 in	.90	.75	1.00	1.56
125 lin.ft. 2½ in. and 3 in	1.80	2.00	1.75	3.02
200 lin.ft. 4 in	2.75	3.00	2.50	3.75
150 lin.ft. 6 in	5.00	4.00	5.25	8.70
125 lin.ft. 8 in	7.00	6.50	6.25	10.23
3,000 lb. cast-iron fittings, for wrought-iron pipe	.12	.10	.11	.24
600 lb. chemical lead pipe and floor drains	.75	1.50	.80	.35
Transformer trucks (lump sum)	1,100.00	975.00	785.00	390.00
Totals by contractor	$3,827,120	$4,091,997	$4,253,743	$4,396,539
Totals by Sanitary District	$3,827,120	$3,995,997	$4,165,767	$4,414,769

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Irrigation, Salem, Oregon, state irrigation engineer made estimates and plans, $17,500,000.

Railway, San Antonio, Texas, R. W. Morrison organizing company and making surveys, $15,000,000.

Hydro-electric plant, Placerville, Calif., J. L. McNab plans, $10,000,000.

Office building, Pittsburgh, Pa., Grant Building, Inc., having plans prepared, $8,500,000.

Grade crossing eliminations, Phila., Pa., City and Reading R.R. Co. making plans, $3,000,000.-$4,000,000.

Apartment, Chicago, Ill., Rosenthal, Mayer & Lewis, $2,000,000.

School, New York, N. Y., Bd. Educ. having plans prepared, $1,500,000.

Amusement Pier, Toronto, Ont., Provincial Impvt. Corp. made plans, $1,000,000-$1,500,000.

Railway, Ohio, Toledo & Cincinnati R.R. Co. plans extension, $1,305,000.

Packing Plant, Seattle, Wash., Barton & Co. plan, $1,000,000.

Contracts Awarded

Apartment, Chicago, Ill., Syndicate, to A. Lindstrom. Archts. est. $3,000,000.

Apartment, Chicago, Ill., R. S. De Goyler & Co., to Fridstein & Co. Archts. est. $2,500,000.

Apartment, Los Angeles, Calif., Fletcher Syndicate, to C. Thoren, approx. $1,250,000.

Viaduct, Newark, N. J., State Highway Dept., to C. Meads & Co., New York City, $1,147,405.

Garage, Milwaukee, Wis., J. T. Cellinson, to R. L. Reisinger. Archts. est. $1,100,000.

Apartment, Phila., Pa., McIlvaine & Roberts, to Roberts & Roller. Archts. est. $1,000,000.

Apartment Hotel, Portland, Ore., Claremont Hotel Co., to Hanson & Hammond Co. $1,000,000.

News of the Week

Waterworks

Proposed Work

Mich., Detroit—Dept. Water Supply, G. H. Fenkell, genl. mgr., 176 East Jefferson Ave., making plans 37,000 ft. 6- to 16-in. mains in Ford Highway, Warren, Francisco, Mansfield, Curtis, Biltmore, Ashton and Thornton Aves., Seven Mile, Southfield, and Dunn Rds., etc.

Mich., Halfway—Made plans extending 39,641 ft. 6- to 12-in. mains, etc. in various streets. H. R. O'Mara, Halfway, engr.

Mich., Royal Oak (Ind. br. Detroit)—Making plans extending 6- to 24-in. c.i. mains, etc. in various streets. $500,000. E. M. Shafter, Royal Oak, engr.

Neb., Plattsmouth—Making plans waterworks. To exceed $25,000. Bruce & Grupe, 710 Bankers Reserve Life Bldg., Omaha, engrs.

Mo., Ironton — Takes bids in spring 100,000 gal. concrete reservoir, deep well, pump house and plunger type pump, 28,225 ft. 4- to 8-in. c.i. mains, 30 gate valves and boxes, 37 fire hydrants, etc. $90,000. W. A. Fuller Co., Ry. Exch. Bldg., St. Louis, engrs. Noted June 16.

Tex., Houston—Making plans 12 in. main from North Main Plant on Little White Oak Bayou to Houston Heights, $40,000; also new mains from North Main Plant on Little White Oak Bayou to Woodland Heights, $40,000. J. C. McVea, city engr.

Okla., Boswell—Pub. Serv. Co., 510 South Boston St., made preliminary plans new water pumping station for power plant, near here. $60,000. W. D. Parks, Hugo, engr.

Okla., Marshall — Making preliminary plans extending 15,000 ft. 4- to 8-in. c.i. mains, etc. in various streets. $20,000. G. F. Ingle, mayor. Engineer not announced.

Wash., Bellingham — Approved $250,000 bond issue, improving and extending waterworks.

Calif., Santa Cruz—J. P. Sweeney, 14 Montgomery St., San Francisco, plans water distributing system, 12,000 ft. 4 ft. metal wood or concrete flume, storage reservoirs, etc., here. $350,000.

Ont., Hamilton—Plans new reservoir and improving Ferguson Ave. pumping station. $800,000. W. L. McFaul, City Hall, eng.

Ont., Richmond Hill—Plans extending 1 mi. c.i. mains, etc. in various streets. $15,000-$20,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Bids Desired

N. H., Epping—Bd. Selectmen taking bids waterworks, incl. power house, standpipe, etc. $30,000. Private plans.

N. Y., Brooklyn—Sept. 16, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenues J, L, M and Q, Benson, Stanley, Canal, Flatlands and Hegeman Aves., and Crescent, Ford, Lombardy, Navy and Sackett Sts., etc., here.

N. Y., Long Island City—Sept. 13, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Bleecker, Greene, Grove, Harman, Himrod, Linden Aves., etc., here.

N. Y., Long Island City—Sept. 16, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Borden, 38th, 80th and Himrod Aves., 22nd, 48th, 127th, 170th and 202nd Sts., etc., here.

N. Y., New York—Sept. 16, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Adee, Bryant, Commonwealth, Hering, Lafayette Aves., etc., Bronx Boro.

D. C., Wash.—Sept. 13, by District Comrs., District Bldg., constructing Water Tower 2, Reno Reservoir.

Michigan—Sept. 12, by D. W. Beauvais, clk. Ira Twp., Anchorville, 803 tons c.i. pipe, 11.5 tons c.i. specials, gates, hydrants, 75,000 gal. elevated steel tank, pumping station, intake crib and suction line in Anchorville and Fairhaven. Ayres, Lewis, Norris & May, Cornwall Bldg., Ann Arbor, engrs.

> ***THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired; etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.***
>
> ***Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.***

Tex., Devine—City, c/o F. C. Hemphill, secy., taking bids improving waterworks, incl. 20,000 ft. various sized pipe, elevated tank, etc. $50,000. Private plans.

Tex., San Benito — See "Contracts Awarded."

Cali., El Segundo—Sept. 16, by V. D. McCarthy, city clk., 3,100 ft. 2 in. galvanized standard screw and 23,200 4 to 10 in. B & S c.i. pipe, etc.

Calif., Escondido—Sept. 16, by R. T. Huchins, city clk., 3,100 ft. 2 in. galvanized standard screw and 23,200 ft. 4- to 10-in. B. & S. c.i. pipe, etc.

Calif., Los Angeles—Sept. 19, by Supervs. Los Angeles Co., constructing Sierra Madre Dam and 1,400 ft. 7 x 10 ft. rein.-con. Channel, incl. concrete arch dam, retaining walls, etc. E. C. Eaton, 202 North Bway., engr.

B. C., Vancouver—Sept. 20, by City Council, 5,000 ft. 24 in. lap welded steel or c.i. pipe, or 26 in riveted steel pipe. C. Brackenridge, City Hall, engr.

See proposal advertising on page 160

Contracts Awarded

Md., Baltimore—Bd. Awards, copper pipe for Bureau Water Supply, to Baltimore Tube Co., 1301 Wicomico St., $13,080. Noted Aug. 11.

Ia., Indianola—To Continental Concrete Well Co., Wichita, Kan., two 50 ft. wells at $45 per ft. and one well at $40 per ft.

Ia., Ogden—Deep well, etc., to Thorpe Bros., 224 Atlas Bldg., Des Moines, $20,175. Noted July 7.

Mo., Carthage — See "Buildings — Industrial."

Tex., San Benito—Central Power & Light Co., c/o Frost Bldg San Antonio, will build 1 story, brick and stucco filtration plant, 1 m.g. capacity, and concrete reservoirs, by day labor. $50,000. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, Ill., Engrs. Noted Aug. 4.

Sewers

Proposed Work

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, rejected bids Aug. 24, sewers in Kings Highway; also sewer in West 10th St., to A. W. Matarazzo, 1163 61st St., $7,769. Noted Aug. 25.

N. J., Cliffside Park (mail Cliffside) — Making plans 42 in. sewer in Jassamine Way, Kingsland Lane, Aurora, Lawton and Columbia Aves. $70,000. McClave & McClave, 460 Anderson Ave., engrs.

La., Pineville—Takes bids about Nov. 1, sewerage system, etc. $100,000. Swanson-McGraw Inc., Balter Bldg., New Orleans, engrs.

Mich., Detroit—Dept. Pub. Wks., making plans Connors Creek Sewer Conduit, 7,000 ft. long rein.-con., monolithic construction. P. A. Fellows, city engr.

Ia., Des Moines—Making preliminary plans 10 in. vitr. clay pipe sewers in Windsor Pl. $30,000. J. M. Tippee, City Hall, engr.

Mo., Kansas City—Making plans sewers in street from 37th St. and Gilham Rd. to Harrison St. south to Brush Creek. $550,000. R. Waddell, City Hall, engr.

Ark., Hot Springs—Oakland Natl. Park Sewer Impvt. Dist., takes bids latter part September, 59,250 ft. 6- to 18-in. sewers, disposal plant of Imhoff tank and sludge bed, etc., in 600 acre tract near here. H. S. Moreland, 625 Central Ave., engr. Noted Aug. 11.

Ark., Paris—See "Streets and Roads."

Tex., Freeport—Plans sewerage system. $25,000. Address Mayor.

Okla., Bristow—Plans 7,000 ft. 8- to 12-in. vitr. clay sewers, etc. in Krumrei addition. $28,000. C. L. Wilson, Weatherford, engr.

Okla., Picher—Made preliminary plans sewers in various streets. $66,000. A Holland, city clk. Engineer not selected.

TRADE "LEADITE" MARK

Registered U. S. Pat. Office

"The World's Playground" has used Leadite with complete satisfaction for over 20 years

ATLANTIC CITY, New Jersey, is proud of its well-paved streets. In laying new or additional cast iron mains, the engineers always use Leadite. They know from the experience of nearly one-quarter of a century that Leadite joints are absolutely secure and that the occasion will not arise where paved streets have to be dug up to repair the line.

In addition to the mains under the paved streets, Leadite was used for jointing the 24" main that runs under the famous boardwalk.

Other lines run through salt marshes, over bridges and under numerous railroad tracks.

The sizes of these mains run from 4" to 48".

Mr. L. Van Gilder is Engineer and Superintendent of the Atlantic City water department.

Added to the security and permanence of Leadite joints there is a saving of 75%.

For its economy—permanence—security—and the speed with which jointing can be finished—Water Works men specify and use Leadite.

Laying 24" c. i. water mains, with Leadite Joints, in Atlantic City under paved street.

Specify and use
LEADITE
—it saves at least 75%

Be sure it is
LEADITE
and accept no imitations ~ ~ ~

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Sewers (Continued)

Okla., Rush Springs — Voted $35,000 bonds, 21,600 ft. 6- to 10-in. vitr. clay sewers in all streets. $35,000. J. E. Milliken, Continental Bldg., Oklahoma City, engr.

Calif., Los Angeles — Drainage Impvt. Dist. 21, made plans rein.-con. sewer, etc., in Montebello Dist. along Whittier Blvd. $234,750. C. E. Arnold, Hall of Records Bldg., drainage constr. engr.

Ont., Oshawa—Plans completing Julien Sewer, 1 mi. 36 in. or larger pipe. $50,000. W. C. Smith, Oshawa, engr.

Ont., Waterloo — Making plans relief sewer in Erb St. and Bridgeport Rd. $35,000. N. A. Zick, City Hall, engr.

Bids Desired

Massachusetts—Sept. 14, by Dept Pub. Health, State House, Boston, sewers, etc., at Westfield State Sanatorium, Westfield, and North Reading Sanatorium, North Reading. G. H. Bigelow, comr.

Mass., Boston—Sept. 15 by Dept. Pub. Wks., sewerage works in South Boston, Dorchester, Roxbury, West Roxbury, Hyde Park and Charlestown. $25,000. J. H. Sullivan, comr.

Conn., Hamden (br. New Haven)—Sept. 13, by F. W. Wright, town engr. 27,700 ft. sewers in various streets. $300,000 appropriated. Noted July 28.

N. Y., Beacon—Sept. 19, by Dept. Correction, 353 Bway., Albany, sanitary sewer and water lines, stand pipe and elevated tank, at Mateawan State Hospital, here; adv. E. N.-R. Sept. 8.

N. Y., Larchmont—Sept. 9, by Bd. Village Trustees, E. D. Wakeman, clk., Municipal Bldg., 1,265 ft. vitr. and c.i. sewer in Dist. 5A from Jochum Ave. to Larchmont Park Pumping Station, Contr. 112. G. H. Bell, acting mayor.

N. Y., New York—Sept. 15, by J. Miller, pres. Manhattan Boro, Municipal Bldg., sewer in Payson Ave.

N. J., Vineland—Sept. 13, by Bd. Boro Comrs., Boro Hall, trunk sewer and settling tanks. Clyde Potts, 30 Church St., New York City, consult. engr.

Pa., Phila.—Sept. 14, by Dept. Pub. Wks., Bureau of Engineering, Schedule A, branch sewers in City Avenue, Indian Queen Lane, Betts, Bridge, D. Devereaux, 58th, Gerhard, Granite, Herbert, Milnor, Ruan and Simon Sts.; and Schedule B, inlets, laterals, etc. G. H. Biles, dir.

La., Shreveport—Sept. 27, by W. T. Mayo, comr. Pub. Utilities, City Hall, constructing Broadmoor, South Highlands, Cedar Grove, Jewella and Southwest Shreveport sewer. S. G. Wolfe, secy.-treas. Noted Mar. 24 under "Waterworks."

O., Alliance — Oct. 1, by Bd. Control, modern sewage disposal plant. $800,000. G. B. Gasciogne, Leader Bldg., Cleveland, consult. engr. Noted July 7.

O., Canton — Nov. 20, by Bd. Control, sewers in various streets. $290,000. W. E. Sarver, City Hall, engr.

O., New Boston (sta. Portsmouth)—Sept. 20, by K. Taylor, village clk., Main Sewer Outlet, 1,035 ft. 66 in. double ring brick, 13 to 26 ft. deep. $39,000. J. D. Wilson, 1417 Grandview Ave., Portsmouth, engr. Noted Sept. 1.

Ind., Indianapolis—Sept. 14, by Bd. Pub. Wks., improving sewers in Audubon Rd., Cable, West Court, Maryland, Michigan, and Exeter Sts., Temple, and Stanton Aves., etc.

Mich., East Lansing—Sept. 12, by City, B. A. Faunce, clk., sewage treatment plant, incl. pump house, pumps, Imhoff tank, 7,700 sq.ft. sludge bed, etc. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Mich., Grosse Pointe Farms (mail Grosse Pointe)—Sept. 12, by J. R. Kerby, village clk., 3,100 ft. 24- to 48-in. concrete or vitr. sewer in Moran Rd. and Grosse Pointe Blvd. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Mich., Roseville—Sept. 16, by E. D. Millar, drain comr. Macomb Co., Mt. Clemens, Martin Drain, Sect. A, 1141 ft. 6½ ft. x 8 ft. double box section outfall sewer, 4,300 ft. 6½ x 8 ft. sewers etc., Sect. B, 7,982 ft. 8 ft. 10 in. x 12 ft. semi circular section, 53 ft. junction chamber, 100 ft. 6 in. concrete pipe, etc., Sect. C, 5,336 ft. 6 in. cylinder, 3,998 ft. 5 ft. cylinder, 2,687 ft. 3 ft. 6 in. and 1,333 ft. 3 ft. cylinder, etc.; and Sect. D, 4,563 ft. 6 ft. 6 in. cylinder, 2,136 ft. 6 ft., 2,589 ft. 5 ft. and 1,415 ft. 4½ ft. cylinder. $1,500,000. W. Lehner, Ulrich Bank, Mt. Clemens, engr.

Mo., St. Louis—Sept. 20, by Bd. Pub. Serv., 208 City Hall, South Hurst Sewer 1, 2,535 ft. 8- to 24-in. vitr. clay pipe, etc. $8,520; Rock Creek Sewer Dist. 11, 6,255 ft. 8- to 24-in. vitr. clay pipe, etc. $21,520; and Cheltenham Sewer 1,900 ft. 8- to 24-in. vitr. clay pipe, etc., $3,600. W. W. Horner, 300 City Hall, engr. Noted Dec. 23 and Aug. 11.

Calif., Beverly Hills—Sept. 20, by City Clerk, storm drain system in Hartford Way, etc. $25,0 0or more. A. R. Mathews, city engr.

Calif., Los Angeles—Sept. 19, by Supervs. Los Angeles Co., rein.-con. sewer in Sycamore Wash near Forest Lawn Memorial Park. E. C. Eaton, 202 North Bway., engr.

Calif., Manhattan Beach (Manhattan P. O.)—Sept. 15, by L. Price, city clk., vitr. main sewer, house connections, etc. in Homer St. and Neptune Ave., etc. $25,000 or more. Noted Aug. 25.

Calif., Santa Ana — Sept. 19, by E. L. Vegely, city clk., constructing sewage screening, building, etc. Burns-McDonnell-Smith Eng. Co., Western Pacific Bldg., Los Angeles, engrs.

Contracts Awarded

N. Y., Brooklyn—See "Proposed Work."

Miss., Ittabana — Sewers in various streets, incl. 28,400 ft. 8- to 12-in. vitr. clay pipe, 45 standard manholes, 2 drop manholes, 2 flush tanks, 12 lampholes, sediment tank, electric sewer lift, etc., to J. B. McCrary Eng. Corp., Citizens & Southern Bank Bldg., Atlanta, Ga., approximately $50,000. Noted June 17.

Ky., Louisville—Comrs. Sewerage, M. H. Crawford, chn., Bd. Trade Bldg., Fourth Street Relief Sewer from Bway. to river and in small section Chestnut St., to Northern States Constr. Co., 312 Endicott Bldg., St. Paul, Minn., Plan "A" (allowing light traffic, only on 4th St.) $582,940, or Plan "B" (allowing heavy traffic, by tunnelling) $677,258. Noted May 12.

O., Akron—W. F. Peters, dir. Pub. Serv. **(e.e. means engrs. est.)**, to F. George, 1657 Mahoning Ave., Youngstown, 9,200 ft. 8 and 12 in. vitr. clay sewer, etc. in North Firestone Blvd. et al, $48,073 e.e. $48,600; 2,685 ft. 8- to 54-in. segmental block combined sewer Wellington Ave., $23,579 e.e. $31,800; also 3,820 ft. 8- to 24-in. Barder Ave. et. al. $15,146 e.e. $21,900. Grand total $86,798.

O., Akron—W. F. Peters, dir. Pub. Serv., 3,140 ft. 30- to 36-in. segmental block intercepting sewer along Ohio Canal from Market St. to Buchtel Ave., to McAlonan Bros., 506 Woodland Ave., $107,998. Engrs. est. $77,000. Noted Aug. 11.

Ill., Wilmette—Bd. Local Impvts. 8- to 36-in. vitr. tile sewers in Gross Point Addition, to C. Conrad, Evanston, $245,585. Former contract rescinded. Noted Sept. 16, 1926.

Wis., Milwaukee—Bd. Pub. Wks., R. E. Stoelting, comr., to Clayton Constr. Co., 5102 Burleigh St., sewers in Cleveland Ave. $2,239, Dickinson St. $50,424, 61st St. $10,366, and 65th St. $10,209; to Zimmermann & Zimmermann, 3402 Wisconsin Ave., Jackson St., $949; and to W. T. Werner, 675 Hi-Mount Blvd., 30th Ave., $62. Grand total $74,949.

Wis., Milwaukee—Bd. Pub. Wks., R. E. Stoelting, comr., to Deroz & Phillips Co., 457 Muriel St., sewers in Orchard St. $918, Burnham St. $5,567, Townsend St. $804, 12th Ave. $1,061, and Watertown Rd. $12,704; to T. G. Holton, 345 27th Ave., Milwaukee Lane, $4,384; to Wenzel & Henoch, 49th and State Sts., Montana St. $1,815; and to A. H. Hoch, 300 Martha Washington Dr. Wauwatosa, 10th Ave. $6,926. Grand total $34,179.

Ia., Oelwein—See "Streets and Roads."

Ark., Jonesboro — Cobb & Lee, engrs., Amer. Trust Bldg., 10,260 ft. 12- to 21-in. round sewers, etc., in Jonesboro Storm Sewer & D. D. 30 of Craighead Co., to Kochtitzky Bros., England, $126,970; and drainage work, to Bunnel & Mack, Paragould, $64,400. Noted Aug. 4.

Minn., St. Paul — A. E. Eggert, city purch. agt., constructing Beaver Heights Sewerage System, to O'Neil & Preston, 607 Exchange Bank Bldg., $179,222.

Minn., Winona—G. W. Hofmann, city recdr., 12- to 30-in. storm sewers, 77 manholes, 274 inlets and catchbasins, etc., in various streets, to C. Jensen, 420 Baker St., $72,200. Noted Aug. 4.

Waste Disposal

Proposed Work

Wis., Wauwatosa—Common Council making plans incinerator. $35,000. J. E. Lowther, city engr.

Bids Desired

O., New Boston (Portsmouth Sta.)—Sept. 20, by K. Taylor, village clk., refuse incinerator.

Bridges

Proposed Work

O., Canton—Bd. Control takes bids about Sept. 23, 1 span concrete bridge over waterworks race, 12th St. N. W. $25,000-$30,000. W. E. Sarver and A. Wise, City Hall, engrs.

Ind., Fort Wayne—Allen Co. plans concrete bridge over St. Mary's River, on Oakdale Dr. and Bluffton Rd. $150,000.

Mich., Port Huron—Grand Trunk Ry., J. A. Heaman, ch. engr., 400 East Jefferson Ave., Detroit, making plans new bascule lift span bridge, over railroad tracks and Black River. $250,000.

Ill., Chicago—Cook Co. Hy. Dept., County Bldg., making plans 3 rein.-con. bridges over Des Plaines River, one 3 span 199½ ft. long, 44 ft. roadway and two 5 ft. sidewalks, at Higgins Rd.; two 3 span 159 ft. long, 44 ft. roadway and two 5 ft. sidewalks, one at Oakton Ave., and other at Rand Rd.; also 2 span 86 ft. bridge, 44 ft. roadway and two 5 ft. sidewalks over North Branch Chicago River, at Oakton Ave. G. A. Quinlan, County Bldg., engr.

Minnesota—Minneapolis, Northfield & Southern R.R. Co., R. C. Smith, ch. engr., 208 Lincoln Bank Bldg., Minneapolis, plans steel bridge on concrete or steel abutements over Minnesota River near Bloomington and Savage.

Kan., Cottonwood Falls—Chase Co. making plans eight 70 ft. and two 35 ft. span truss and I-beam bridge, on Federal Aid Project 47-C.

Kan., Eldorado—Butler Co. made plans two 40 ft. and one 120 ft. span I-beam and truss bridge. E. S. Elcock, Eldorado, engr.

Kan., Medicine Lodge—Barber Co. making preliminary plans eight 40 ft. span deck girder Federal Aid Bridge, at Sta. 95-88. L. A. Tilton, Court House, engr.

Kan., Sedan—Chautauqua Co., plans 3 bridges on Federal Aid Project 384. C. E. Fesler, Court House, engr.

Arkansas—State Hy. Dept., Little Rock, making preliminary plans rein.-con. and steel bridge over Carron Creek, on State Highway 64, Gleason Co. $25,000. C. S. Christian, State Hy. Dept., engr.

Texas and Oklahoma—Chicago, Rock Island & Pacific R.R. Co., C. A. Morse, ch. engr., Chicago, Ill., made plans 2,400 ft. rein.-con. and steel bridge, 36 ft. over Canadian River between Texas and Oklahoma, $1,000,000.

Oklahoma—State Hy. Dept., Oklahoma City, made preliminary plans 1 span 96 ft. steel truss bridge on piers over Cedar Creek, on Highway 18, near Asher, Pottawatomie Co., $32,000; 1 span 95 ft. steel truss bridge on piers over Chadron Creek, near Spiro, Le Flore Co., $50,000; and 1 span 76 ft. steel truss bridge on concrete piers over Chickasaw Creek, near Stringtown, Atoka Co., $30,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Okla., Harrah—Oklahoma Co. (Oklahoma City) making preliminary plans 3 span 160 ft. steel truss bridge on piers over Rock Island R.R. tracks, near here. $40,000. R. S. James, Court House, Oklahoma City, engr.

Okla., Tulsa—Tulsa Co. making preliminary plans new bridge across Arkansas River, on 41st St. $400,000. H. A. Parker, Court House, engr.

Que., St. Lambert—Canadian Natl. R.R., C. S. Gzowski, ch. engr. (constr.), Montreal, plans single span bridges, on Front St. and Victoria Ave., here. $100,000.

Bids Desired

Connecticut—See "Streets and Roads."

New York—Sept. 13, by T. F. Farrell, comr. Canals & Waterways, State Pub. Wks., Bldg., 353 Bway., Albany, removing existing bridges and constructing new highway crossings at 5 locations on Erie Canal, Madison and Oneida Counties, Erie Canal Contr. M-33.

N. J., Matawan—Sept. 21, by Bd. Freeholders Monmouth Co., Court House, Freehold, constructing Bridge Ma-9 and Dam, here. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr.; adv. E. N.-R. Sept. 8.

Pennsylvania—See "Streets and Roads."

South Carolina—Sept. 20, by State Hy. Dept., Columbia; bridges in Dorchester-Orangeburg, Colleton-Dorchester, Richland-Lexington, Greenville-Pickens, York and Florence Counties. B. M. Sawyer, ch. comr.

Michigan—Sept. 22, by H. C. Fleming, resident engr., Grand Rapids, Federal Aid Bridge 1 of 54-1-1, Contr. 1, two 40 ft. and 70 ft. spans, Mecosta Co., State Hy. Dept., Lansing.

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Bridges (Continued)

Michigan—Sept. 16, by C. L. Cowgill, resident engr., Plymouth, State Reward Bridge 1 of 50-3-24 Contr. 1, two 50 spans steel deck girder, Macomb Co., for State Hy. Dept., Lansing.

Illinois — Sept. 14, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, two 23 ft. span rein.-con. slab bridge on Route 55, Sect. 551-B, Cook Co.; one 21 ft. span rein.-con. slab bridge, one 100 ft. and one 140 ft. span rein.-con. and steel bridge on Route 88, Sects. 102-B and C, Whiteside Co.; one 20 ft. rein.-con. slab and one 40 ft. rein.-con. girder bridges on Route 121, Sect. 141-B, Piatt and Moultrie Counties; two 20 ft. and four 22 ft. rein.-con. slab bridges and two 10 ft. box culverts on Route 127, Sect. 112-B, Clinton Co.; and two 50 ft. rein.-con. girder bridges, on Route 142, Sect. 103-B, Fayette Co. F. T. Sheets, ch. highway engr.

Ia., Charles City — Sept. 12, at office Auditor Floyd Co., steel or treated timber construction, approaches and reflooring 200 ft. span and abutments, placing old truss, new floor and painting old truss bridges. J. H. Curtis, Charles City, co. engr.

Kan., Belleville — See "Streets and Roads."

Kan., Salina—See "Streets and Roads."

Washington—See "Streets and Roads."

Calif., Willows—Sept. 19, by State Hy. Comn., Sacramento, one 30 ft. and two 14 ft. span rein.-con. girder bridge over Wilson Creek, 2 mi. north of here, Glenn Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Ont., Ottawa—Sept. 15, by Secretary Federal Dist. Comn., 53 Queen St., 30 span 2,200 ft., concrete, steel and stone bridge over Ottawa River, near here. $450,000. A. K. Hay, 279 Carling Ave., engr. Noted July 14.

Contracts Awarded

New York—A. W. Brandt, comr. Highways, Albany, **(e.e. means engrs. est.)** reconstructing bridge Repair Contr. 1646, on Highway 5199, Chazy-Rouses Point Rd., Clinton Co., to P. Sawyer & Co., Plattsburg, $5,577 e.e. $7,059; three 70 ft. span bridges on Repair Contr. 1646, Highway 525, Lawton-Gowanda Rd., Erie Co., to John Cowper Co., Inc., Fidelity Bldg., Buffalo, $78,891 e.e. $104,187; bridge on Repair Contr. 1647, Highway 491, Hilton-Bartletts Corners, Highway 1281, West Greece-Manitow Beach, Monroe Co., to G. J. Gooberlet, Rochester, $23,897 e.e. $28,915; bridge on Repair Contr. 1648, Highway 5195, Croomans-Howes Cave Rd., Schoharie Co., to S. A. Scullen, Inc., Cohoes, $54,999 e.e. $67,936; on Bridge Repair Contr. 1645, Highway 5453, East Aurora-Holland Rd., Part 2, Erie Co., to Oatka Eng. & Constr. Co., Inc., Warsaw, $108,018 e.e. $140,378. Grand total $271,382. Noted Aug. 11 under "Streets and Roads."

N. J., Newark—State Hy. Dept., Trenton, 1,647 ft. viaduct on Route 1 Extension, Sect. 14-A, Essex Co., to C. Meads & Co., 217 West 13th St., New York City, $1,147,405. Noted Aug. 25.

Pennsylvania—State Hy. Comn., Harrisburg, constructing Clymer Bridge, 468 ft. long, rein.-con., etc., on Route 262, Indiana Co., to D. H. and W. E. Clark, 117 Mary St., Johnsonburg, $92,310. Noted Aug. 11.

Pa., Bethlehem — Northampton Co., 2 concrete bridges over Saucon Creek, to Potruch Co., Allentown, $29,000.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, constructing concrete beam bridge over Wheelabout Creek on Sect. "McArthur" McArthur-Athens Rd., Vinton Co., and 50 ft. span concrete girder bridge on Sect. "E" Lancaster-Newark Rd., Fairfield Co., to L. S. Gaty, 1544 East Broad St., Columbus, $9,147 and $6,141 respectively; 36 ft. span concrete beam bridge on Sect. "B" Lancaster-Circleville Rd., Fairfield Co., to L. Brown, Lancaster, $8,386; 2 concrete beam bridges on Sect. "B" Dayton-Lakeview Rd., Logan Co., to Scioto Constr. Co., Kenton, $14,830; 15 ft. span arch concrete bridge on Sect. "D" Mansfield-Millersburg Rd., Ashland Co., to H. S. Scott, Ashland, $3,835; standard concrete bridge on Sect. "A-1" Wapakoneta-Bellefontaine Rd., Auglaize Co., to Pandora Cement Block Co., Pandora, $7,813; 20 ft. span slab concrete bridge Sect. "J" Roundhead-McGuffey Rd., Hardin Co., to J. McQuown, Kenton, $3,140; 3 concrete bridges and approaches on Sect. "A-2" Delphos-Upper Sandusky Rd., Allen Co., to L. I. Clymer, Bluffton, $25,383; 2 bridges and approaches on Sect. "A-1" Wapakoneta-Bellefontaine Rd., Auglaize Co., to W. L. Hastings, Wapakoneta, $4,616; 4 culverts and 60 ft. concrete girder bridge on Sect. "A" Troy-Urbana-Southern Rd., Champaign Co., to C. C. Carpenter, Ada, $11,253; 3 span concrete bridge over Hocking River, Sect. "A" Lancaster-Logan Rd., Fairfield Co., to Stout & Stout, Stoutsville, $21,794; grading and constructing steel bridge over Racoon Creek, on Sect. "Vinton" Gallipolis-McArthur Rd., Gallia Co., to J. B. Dale & Son, Gallipolis, $46,126; 2 span concrete bridge over Massie Creek, and widening approaches on Sect. "E" Columbus-Cincinnati Rd., Greene Co., to A. J. Chaney & Son, Hillsboro, $44,880; concrete span bridge over Rocky River on Sect. "J-2" Cleveland-Hickley-Medina Rd., Medina Co., to G. W. Luke & Sons, 122 Kensington Court, N.W., Canton, $35,167; 10 bridges and 52 culverts on Sects. "O", "P" and "Q" National Rd., Preble Co., to Putnam & Sunday, Antwerp, $33,272; concrete abutments and 147 ft. span steel truss bridge, on Sect. "F-2" Ganges-Plymouth Rd., Richland Co., to Brookfield Constr. Co., Brookfield, $28,255; concrete girder bridge and approaches, on Sect. "Muddy Creek Bridge" Fremont-Port Clinton Rd., Sandusky Co., to W. A. Yeagle, Clyde, $35,586; concrete bridge over Little Racoon Creek, Vinton Co., to Neilson & Taylor, Columbus, $15,016. Grand total $354,640.

Michigan—R. R. Havens, resident engr., Jackson, R. B. 1 of 33-6-31, two 50 ft. spans, Ingham Co., for State Hy. Dept., Lansing, Contr. 1, to McClintic Marshall Co., 1242 Book Bldg., Detroit, $4,871; and Contr. 2, to Walter Toebe Co., Shingleton, $29,542. Noted Aug. 4.

Mich., Port Huron—E. R. Benkert, resident engr., Port Huron, R. Bridge 1 of 77-22-21, two 75 ft. span, rein.-con., St. Clair Co., to Walter-Toebe Co., Shingleton, for State Hy. Dist., Lansing. $42,242. Noted Aug. 4.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., constructing Briar Hill stone substructure for 250 ft. steel bascule span bridge, 60 ft. with 12 ft. sidewalks, etc., on Cedar St., to E. E. Gillen, 288 East Water St., $507,538; also furnishing and delivering all structural steel, machinery, castings, forgings, etc. for superstructure for above, to Milwaukee Bridge Co., 1400-34th St., $148,795. Noted Apr. 14.

Minn., St. Paul—See "Streets and Roads."

Washington—State Hy. Comn., Olympia, two 30 ft. and one 40 ft. concrete T-beam span bridge, etc. over Swamp Creek, on State Rd. 1, King Co., to Pacific Constr. & Timber Co., 520 Lloyd Bldg., Seattle $12,585; and superstructure for 400 ft. steel and concrete bridge over Yakmia River on State Rd. 3, Yakima Co., to H. W. Pohlman, 401 East G St., Tacoma, $38,524. Noted Aug. 11.

Dams

Proposed Work

California—See "Buildings-Industrial."

Calif., Los Angeles—Supervs. Los Angeles Co. Flood Control Dist. made new plans San Gabriel Dam, 425 ft. high to impound 240,000 acre ft. E. C. Eaton, 202 North Bway., ch. engr. Noted Aug. 11.

Calif., Placerville—See "Buildings—Industrial."

Ont., London—Utilities Comn., making plans cement dam. $150,000. W. P. Near, City Hall, engr.

Railways

Proposed Work

Ohio — Toledo & Cincinnati R.R. Co., plans extending 2.9 mi. railway from point 3.3 mi. north of Hamilton, and 1.4 mi. railway to plant of Amer. Rolling Mill Co. near Middletown. $1,305,000.

Texas—R. W. Morrison, et al, San Antonio, organizing company and making surveys railroad from San Angelo to Corpus Christi, via San Antonio. $15,000,000. Engineer announced soon.

Contracts Awarded

Texas—Southern Pacific Ry Co., 65 Market St., San Francisco, Calif., grading for extending 28 mi. railway between Houston and Harlingen, here, to W. J. Harris Constrg. Co., El Paso, approximately $90,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Wis., Green Bay—City, c/o J. Mc-Gillan, mayor, plans dredging Fox River by sand suckers and treat sand on banks. $25,000. Engineer not selected.

Ia., Council Bluffs—Pottawatomie Co. soon takes bids rein.-con. retaining wall and dam along Indian Creek from 6th to 13th Sts., incl. 1,408 cu.yd. rein.-con., 9,825 ft. piling, 4 sheet piling dams, etc. $46,595. B. Walker, City Hall, engr.

Oregon — R. L. Luper, state irrigation engr., Salem, made estimates, plans and application constructing 700,000 acre ft. storage reservoir, incl. dam 375 ft. high and 192 ft. thick at base, to convey 126,000 acre ft. water from Owyhee River, Malheur Co., for Owyhee Malheur Irrigation Project Dam $6,112,000, total $17,500,000.

Bids Desired

N. Y., Howard Beach (br. Jamaica)—Sept. 15, by M. Cosgrove, comr. Docks, Pier "A," foot Battery Pl., North River, New York City, dredging channel, Contr. 1899, Queens Boro.

Ia., Burlington—Sept. 20, by Trustees Des Moines Co. D. D. 7, electrifying one unit Lazwell Pumping Station; adv. E. N.-R. Sept. 8.

Contracts Awarded

N. Y., New York — M. Cosgrove, comr. Docks, Pier "A," Battery Pl., bulkhead wall at East 17th St. and East River, to General Contg. & Eng. Co., 40 Rector St., $15,090. Noted Aug. 11.

N. J., Trenton — Mercer Co., repairing and resurfacing Delaware and Raritan Canal tunnel at Cadwalader Park, to A. C. Horn Sales Corp., Hancock St., Long Island City, N. Y., $15,500.

Louisiana—State Hy. Comn., Baton Rouge, constructing embankment on 5.582 mi. Hammond-New Orleans Highway, State Project 156-B, Unit 1, St. Charles Parish, to United Dredging Co., 233 Bway., New York City, N. Y. $231,028. Noted Aug. 4.

Miss., Pascagoula—Bd. Supervs. Jackson Co., W. K. Burnham, pres., 4.5 mi. rein.-con. sea wall and roadway along beach from Bayou Chicot to mouth Pascagoula River, to Hargold Constr. Co., New Orleans, La., $294,302. Engrs. est. $600,000. Noted July 21.

Canada—Dept. Pub. Wks., Ottawa, Ont., dredging in Ellis Bay, Anticosti Island, and at St. Anne de Beaupre, both in Quebec; to Canadian Dredging Co., Midland, Ont., $515,474 and $218,420 respectively; harbor improvements at Owen Sound, to Woolwick & Brigham, 201 5th Ave. E., Owen Sound $39,948, and constructing concrete apron at Timiskaming, to Farley & Grant, Bank Natl. Bldg., Rideau St., Ottawa $54,997, both in Ontario; also breakweater extension at New Harbour, N. S., to T. P. Chareleson, 179 Gilmour St., Ottawa, $27,100. Grand total $855,939.

B. C., North Vancouver—Vancouver Harbor Comrs., 525 Seymour St., Vancouver. 2,500 ft. timber bulkhead, 20,000 lin.ft. wood piling, 185 ft. timber, etc., to Giant Salvage Co. Ltd., 470 Granville St., Vancouver, $25,000.

Que., Grindstone—Dept. Pub. Wks., Ottawa, Ont., protection crib work, here, to E. Lemieax, St. Marie Beauce, $33,920.

Que., Sorel—Dept. Pub. Wks., Ottawa, Ont., deepening bed of River St. Lewis, here, to W. H. Robinson, Toronto, Ont., $33,624; and dredging main channel Lake St. Louis, here, to Les Chantiers Manseau, Sorel, $60,566.

Streets and Roads

Bids Desired

Massachusetts—Sept. 13, by Dept. Pub. Wks., Boston, bituminous macadam paving 11,256 ft. highways in Beverly, Clarksburg, and Buckland; also graveling 2,300 ft. highway in Spencer, all 18 ft. W. F. Williams, comr.

Mass., Boston—Sept. 15, by Dept. Pub. Wks., sheet asphalt or bituminous paving

Streets and Roads (Continued)

Commonwealth Ave., North Dr. and Cottage Farm Bridge. $25,000. J. H. Sullivan, comr.

Mass., Lynn — Sept. 13, at City Hall, grading, curbing, and reconstructing, widening, etc. City Hall Sq. $25,000 or more. Address R. S. Bauer, City Hall, mayor.

Connecticut — Sept. 12, by State Hy. Commissioner, Hartford, rein.-con. paving 12,960 ft. streets in Berlin, Norwalk, Wilton, Litchfield, Hamden and Columbia; water bound macadam paving 13,043 ft. streets in Preston and Chester; bituminous macadam paving 2,374 ft. streets in Southbury; and 40 ft. span bridge in Berlin. D. H. B. Starr, Poliner Bldg., Middletown, div. Engr.; adv. E. N.-R. Sept. 8.

N. Y., New York—Sept. 15, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing and sidewalks when and where directed; grading and granite block repaving Whitehall and 14th Sts.; also grading and asphalt block paving West 158th St.

N. Y., White Plains—Sept. 10, by F. L. Merritt, clk. Bd. Supervs. Westchester Co., Court House, rein.-con. and bitulithic paving 2.94 mi. Pelham Rd., Echo Ave. and Main St., County Rd. 65. C. MacDonald, Court House, co. engr.; adv. E. N.-R. Sept. 8.

Pennsylvania—Sept. 22 and 23, by State Hy. Comn., Harrisburg, vitr. brick, or bituminous surface treated macadam paving 55 mi. 26 projects in Allegheny, Bedford, Bucks, Butler, Cambria, Chester, Delaware, Erie, Fayette, Greene, Indiana, Jefferson, Lebanon, McKean, Mifflin, Somerset, Venango, Warren, Westmoreland and York Counties; also bridge in Erie Co. J. L. Stuart, secy. state highways; adv. E. N.-R. Sept. 8.

Pa., Phila.—Sept. 15, by Dept. Pub. Wks., Bureau of Highways, grading; asphalt paving, (assessment work); asphalt repaving; redressed granite block repaving; improving country roads; and repairing bridges. G. H. Biles, dir.

Delaware—Sept. 28, State Hy. Dept. Dover, grading and concrete paving Warren School, Sandton, Contr. 94, and 2,290 cu.yd. Pleasant Valley School, Lincoln Highway, Contr. 95; also one 10 ft. span bridge, State Wharf at Little Creek, Contr. 88., etc., adv. E. N.—R. Sept. 8.

D. C., Wash. — Sept. 14, by District Comrs., District Bldg., grading approximately 45,000 cu.yd. 16th St. N. W., from Kalmia St. to District line.

Va., Richmond—Sept. 12, by R. K. Compton, dir. Pub. Wks., grading, curbing, guttering and amiesite or Kentucky rock resurfacing portion National Cemetery Rd.

W. Va., Leesburg — Sept. 15, by Bd. Supervs. Loudon Co., grading, bridging, topsoiling, etc. 4.29 mi. Road 19, Mt. Gilead, Magisterial Dist.

W. Va., Pineville—Sept. 12, at office Clerk Wyoming Co., grading, etc. 10.5 mi. Low Gap-Keystone Rd., Project 272; and 10.5 mi. Herndon-Crumpler Rd., Projects 271 and 271-B. A. B. Shannon, Pineville, co. engr.

South Carolina—Sept. 20, by State Hy. Dept., Columbia, improving roads in Orangeburg, Dorchester, Charleston, Fairfield, Florence and Williamsburg Counties. B. M. Sawyer, ch. comr.

Fla., Crescent City—Sept. 26, by Mayor and City Council, curbing, guttering and paving 3,800 sq.yd. various streets. H. S. Jaudon Eng. Co., Elberton, Ga. and Eustis, Fla., engrs.

Ala., Birmingham — Oct. 3, by City Comn., curbing, guttering, walks and 2 in. bitulithic on 6 in. concrete paving 6 blocks 32nd Ave., 40 ft., $58,500; curbing, guttering, walks and 2 in. asphalt on 5 in. concrete paving 4 blocks Ave. V, Ensley, 25 ft. $26,400, and 3 blocks Cotton Ave. and 16th Pl. S. W., 30 ft. $15,500; also grading and 6 in. concrete paving, etc. 2 blocks 27th Alley, Ensley, 12 ft. $5,125. A. J. Hawkins, city engr.

Miss., Oxford—Sept. 30, by Bd. Supervs. La Fayette Co., concrete on 5 or 7 in. concrete paving on warrenite bitulithic on 6 in. uniformed concrete or sheet asphalt with binder course surfacing 11,339 sq.yd. Federal Aid Projects 66-A and 97-A. H. C. Dietzer, Jackson, engr. Noted July 21.

Tenn., Nashville — See "Contracts Awarded."

O., Canton—Sept. 25, by Bd. Control, grading and paving approximately 1½ mi. 25th St. N.W. $204,000. Former bids rejected. W. E. Sarver, City Hall, engr. Noted Aug. 25.

O., Parma (br. Cleveland)—Sept. 13, by Village, grading, curbing and pavng, etc. Wexford and Marmore Aves., Brookview Blvd. from State Rd. to West 31st St. and Brookview Blvd. from Broadview Rd. to West 9th, 16th, 21st, 23rd, 25th and 26th Sts. Munz Eng. Co., Natl. City Bldg., Cleveland, engr.

Michigan—Sept. 14, by R. W. Roberts, resident engr., Saginaw, concrete paving 12.379 mi. Federal Aid Road FO29-17, Contr. 1, 20 ft., Gratiot Co., for State Hy. Dept., Lansing.

Michigan—Sept. 14, by A. R. Schaefer, resident engr., Newberry, grading 1.622 mi. State T. Line MO 21-6, Contr. 1, Delta Co., for State Hy. Dept., Lansing.

Michigan—Sept. 14, by C. L. Cowgill, resident engr., Plymouth, concrete paving 9.99 mi. Federal Aid FO 50-16, Contr. 2, 20 ft. Macomb Co., for State Hy. Dept., Lansing.

Michigan — Sept. 15, by C. L. Cowgill, resident engr., Plymouth, concrete paving 4.766 mi. State Trunk Line Rd. MO 63-19, Contr. 3, 20 ft., Oakland Co., for State Hy. Dept., Lansing.

Michigan — Sept. 15, by C. H. Brown, resident engr., 14380 Wyoming Ave., Detroit, concrete paving 3.997 mi. Assessment Dist. Road 471, 20 ft., Oakland, Macomb and Wayne Counties, for State Hy. Dept., Lansing.

Michigan—Sept. 15, by H. C. Fleming, resident engr., Grand Rapids, concrete paving 5.022 mi. Federal Aid Rd. FO41-10, Contr. 3, 20 ft., Kent Co., for State Hy. Dept., Lansing.

Michigan—Sept. 15, by C. L. Cowgill, resident engr., Plymouth, concrete paving 4.766 mi. Project MO63-5, Sect. A, Contr. 2, T. L. 10-61 A, on U. S. 10, Oakland Co., for State Hy. Dept., Lansing.

Michigan—Sept. 16, by H. C. Fleming, resident engr., Grand Rapids, concrete paving 6.219 mi. Project 054-7, Contr. 1, F. A. 132-B, 20 ft., Mecosta Co., for State Hy. Dept., Lansing.

Michigan — Sept. 16, by H. C. Fleming, resident engr., Grand Rapids, concrete paving 6.219 mi. Federal Aid Road FO 54-7, Contr. 1, 20 ft., Mecosta Co., for State Hy. Dept., Lansing.

Michigan — Sept. 20, by G. D. Tramp, resident engr., Crystal Falls, bituminous macadam paving 9.694 mi. State Trunk Line Rd. 31-19, Contr. 1, and 2.523 mi. 31-18, Contr. 1, 18 ft., Houghton Co., for State Hy. Dept., Lansing.

Mich., Mt. Clemons — See "Contracts Awarded."

Mich., Wyandotte — Sept. 13, by E. C. Bryan, city clk., curbing, one course 8 in. concrete paving approximately 45,000 ft. Assessment Dists. 91, 96 and 100. $90,000. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Illinois—Sept. 14, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete, vitr. brick or bituminous concrete surfacing 5.04 mi. Route 55, Sect. 551, Cook and Du Page Counties, 6.79 mi. Route 88, Sect. 102, Whiteside Co., 11.12 mi. Route 121, Sects. 141 and 142 Piatt and Moultrie Counties, 8.48 mi. Route 121, Sect. 143 Piatt, Moultrie and Douglas Counties, 4.26 mi. Route 127, Sect. 112 Clinton Co., 9.96 mi. Route 142, Sect. 104, Marion and Fayette Counties, 7.54 mi. Route 174, Sect. 105 and Route 175, Sect. 104 both Peoria Co.; grading 0.97 mi. Route 90, Sect. 107-A, Marshall Co. and 3.23 mi. Route 142, Sect. 103-A, Fayette and Clay Counties. F. T. Sheets, ch. highway engr.

Ia., Charles City—Sept. 12, by Auditor, Floyd Co., graveling 5 mi. Secondary Road Project 12. J. H. Curtis, Charles City, co. engr.

Minnesota—Sept. 20, by State Hy. Comn., St Paul, **(F.A.P. means Federal Aid Project, and S.P. State Project)**, grading 275,000 cu. yd. S.P. 1-51, F.A.P. 408, 181,000 cu. yd. S.P. 4-24, Sect. 3, F.A.P. 395, 208,000 cu. yd. S.P. 4-36, Sect. 2, F.A.P. 395, 112,600 cu.yd. S.P. 8-39, F.A.P. 302, 280,000 cu. yd. S. P. 9-21, Sect. 2, F.A.P. 399, 136,700 cu. yd. S.P. 10-54, Sect. 2, F.A.P. 382,290 cu. yd. S.P. 15-32, New Ulm-Searles Rd., 283,800 cu. yd. S.P. 28-29, F.A.P. 393, and 130,000 cu. yd. S.P. 35-24, F.A.P. 404, grading 272,000 cu. yd. S.P. 40-21, Sect. 3, F.A.P. 384; and constructing Bridges 4701 and 4702, 30 ft. long on latter road; graveling 25,100 cu. yd. S.P. 11-28, Divs. A and B, and 24,500 cu. yd. S.P. 14-24, Sects, 2, 3 and part of 4, Morton-Fairfax Rd.; also paving, etc., 171,600 sq. yd. S.P. 63-21, Divs. B and C, and 136,800 sq. yd. S.P. 63-22, Divs. E and F. State Hy. Dept., engr.

Kan., Belleville—Sept. 19, by M. L. Hill, clk. Republic Co., grading, 1 bridge, etc., on 5.536 mi. Federal Aid Project 314-B, and 1.515 mi. Kansas Project 116-A. J. O. Gunnells, Court House, engr.

Kan., Salina—Sept. 22, by Clerk Saline Co., grading and 12 bridges on 9.775 mi. Federal Aid Project 374-D, 30 ft. W. H. Cost, Court House, Salina, engr.

Neb., Hastings—Sept. 12, by City, alternate type paving 3,695 sq.yd. streets in Dist. 137; and 2,415 sq.yd. in Dist. 139. P. T. Naylor, City Hall, engr.

Okla., Oklahoma City — Sept. 13, by M. Peshek, city clk., grading curbing and 7 in. concrete paving 8,610 sq.yd. Nelson St. $27,420. B. M. Hart, City Hall, engr. Noted May 5.

Okla., Stillwater — Sept. 16, by V. A. Doty, clk. Payne Co., 7 in. concrete slab surfacing 10,560 sq.yd. Payne Co. Rd., Sect. B, Unit 2. $25,000. G. Whittenberg, Stillwater, co. engr.

Washington — Sept. 20, by State Hy. Comn., Olympia, grading and surfacing approximately 1.3 mi. State Road 5, King Co.; crushed graveling 20,500 cu.yd. Stevens Pass Highway, Chelan Co.; and constructing 120 ft. rein.-con. arch bridge over Touchet River, at Dayton, Columbia Co. S. J. Humes, state highway engr.

California—Sept. 19, by State Hy. Comn., Sacramento, bituminous macadam surfacing 4.3 mi. roadway between east boundary and Camphora, Monterey Co.; concrete surfacing, etc., 4.4 mi. roadway between Warm Springs and Milpitas, Alameda and Santa Clara Counties; also concrete paving 4.8 mi. roadway between Redlands and point ½ mi. north of Riverside Co. line, San Bernardino Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Calif., Escondido — J. Speer, city clk., taking bids grading and 1½ in. asphaltic concrete paving 372,612 sq.ft. Ohio Ave., etc.

Calif., San Diego — Sept. 19, by Bd. Supervs. San Diego Co., grading and 5 in. concrete paving 68,225 sq.ft. and 6 in. concrete paving, etc. 288,089 sq.ft. 54th St. and Euclid Ave. $170,150. E. L. Freeland, engr. in charge. Noted July 14.

B. C., Vancouver—Sept. 12, by City Council, concrete or black top on concrete repaving 1.25 mi. Pender St., 41 ft. $115,319. C. Brackenridge, City Hall, engr.

Contracts Awarded

Mass., Boston — Dept. Pub. Wks., sheet asphalt paving Harold St., to M. F. Gaddis, 6 Beacon St. $30,994, and East and West Brookline Sts., to J. A. Singarella, 110 High St. $34,795; also sheet asphalt or bitulithic paving River St., to J. C. Coleman, 1620 Tremont St.. Roxbury, $127,456. Grand total $195,245.

New York—A. W. Brandt, comr. Highways, Albany, **(e. e. means engineers estimate)** bituminous macadam penetration method paving 6.72 mi. Highway 8225-A, Dresden Station-Putnam Rd., Washington Co., to Xelleher Corp., Turners Falls, Mass., $179,566 e.e. $243,566; concrete paving 3.44 mi. Highway 8288, Franklin-North Franklin Rd., Delaware Co., and 4.82 mi. Repair Contr. 3184 Highway 8289, Milford-Roseboom Rd., Part 1, Highway 783 Milford Village Rd., Highway 674, Milford Center-Milford Rd., Otsego Co., to O. P. Williams, Oneonta, $175,400 and $277,000 respectively e.e. $232,404 and $386,087 respectively, 1.94 mi. Repair Contr. 1643, Highway 528, Hamburg-Springville Rd., Part 2, Erie Co., to Greenfield & Harding, Hornell, $106,030 e.e. $140,771, 6.86 mi. Highway 1770, Stamford-Summit Rd. Part 1, Highway 8290, Stamford Summit Rd. Part 2, Delaware and Schoharie Counties, to W. J. Knauer, Jamestown, $438,911 e.e. $596,813, and 1.06 mi. Highway 1786, Monroe Village, Lake and Spring Sts., Orange Co., to Westchester Constr. Co., Ft. Plain, $49,081 e.e. $59,402; 1.94 mi. Repair Contr. 3183, Highway 115, Central Valley-Turners Rd., Highway 46, Turners-Monroe Rd., Orange Co., to Hull & Hollenbeck, Central Valley, $138,178 e.e. $183,233; graveling 4.73 mi. Highway 1769, Amboy Center-Williamstown Rd., Oswego Co., to L. W. Williams, Cazenovia, $84,695 e.e. $137,336. Grand total $1,448,861. Noted Aug. 11.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading and granite block paving, etc. Columbia St., to Colgan Contg. Co., 26 Court St., $71,951. This corrects report in Aug. 25 issue.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, etc., Ellwood St., to G. Kingston, $32,647, Staff St., etc., and asphalt block repaving 181st St., to M. Del Balso, 2551 Cruger Ave., $7,015 and $7,344 respectively; widening and granite block repaving Vestry St., to St. George Paving Corp., 90 West St., $73,392; granite paving, etc., East 4th St., to Casper Helbock, 633 Wales Ave., $48,165; widening and sheet asphalt paving, etc., 55th St., to W. H. Fitzgerald, 547 45th St., $29,705; sheet asphalt paving 65th St., to Cleveland Trinidad Paving Co., Flushing, $20,802, Thayer St., to Gaffney Constr. Co., Storey and Harvey Aves. $42,921, and West 211th St., to C. D. Beckwith,

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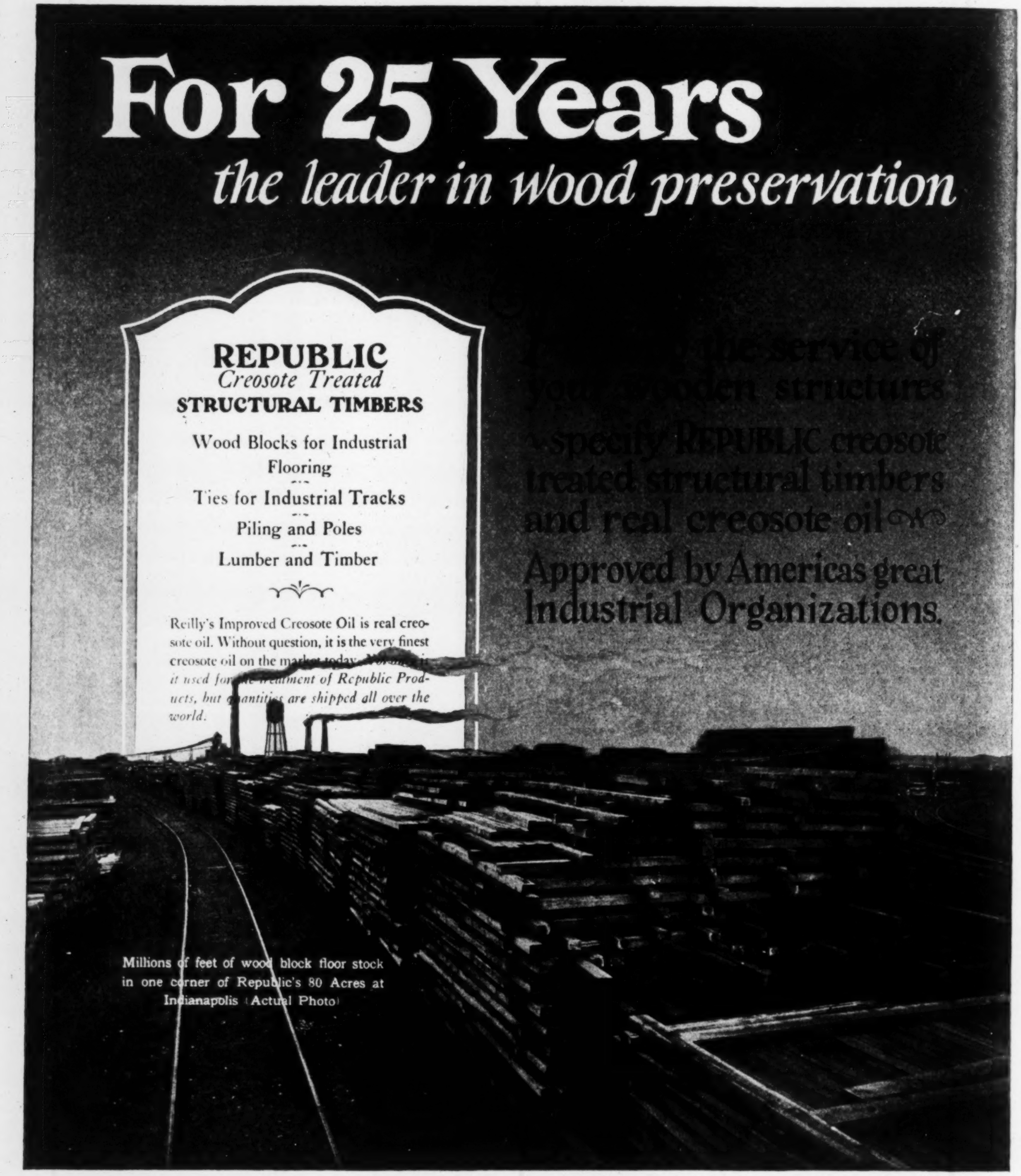

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Streets and Roads (Continued)

Seneca Ave. and Edgewater Rd. $19,980. Grand total $281,971. Noted Aug. 18.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and bituminous macadam paving Mountain View Ave., to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $12,448; bituminous concrete repaving Tompkins Ave., to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $36,798; and grading Purcell St., to J. Johnson Sons, 455 Bway., West New Brighton, $12,367. Grand total $61,613. Noted July 28.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, concrete sidewalks Morrison Ave., to D'Amico, $1,077; grading and bituminous macadam paving Courtlandt St., to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $9,305; and Neal Doe Ave., to J. J. O'Rourke, 29 Gifford Lane, $3,681. Grand total $14,063. Noted Aug. 4.

New Jersey—State Hy. Comn., Trenton, bituminous macadam paving Route 5, Sect. 19, Dover-Denville Rd., Morris Co., to H. Y. Fimanton, Hackettstown, $92,450; and asphalt surfacing Route 17 (South) at Thoroughfare and Route 13 Sect. 5, south of Lawrenceville Gloucester and Mercer Counties, to Union Paving Co., 123 South 21st St., Phila., Pa. $18,374. Noted Aug. 11.

New Jersey—State Hy. Dept., Trenton, grading and bituminous concrete surfacing, etc., 42,810 sq.yd. Route 18, Sect. 6, Englewood Cliffs-Alpine Rd., Bergen Co., to S. J. Groves & Sons Co., 114 Marlton Pike, Camden, $378,216; and 55,623 sq.yd. Sect. 7-A, Mercerville-Hamilton Sq. Rd., Mercer Co., to F. A. Canuso, 804 South 12th St., Phila., Pa., $225,028. Noted Aug. 4.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to Eastern Asphalt Co., Penn Bldg., asphalt repaving Walnut St. $34,928, Wayne St. $44,880 and track area 5th St. $52,719; to Achione Contg. Co., 1607 McKean St., smooth dressed granite block repaving South Penn Sq., Broad, Filbert, Juniper and Market Sts., $186,160; to J. Salvucci, 512 North 65th St., redressed granite block repaving track area Germantown Ave. and Perkiomen Turnpike, $30,965; to Atlantic Refining Co., 260 South Broad St., bituminous materials (block filler) $1,440; and to Vansciver Corp., Parkway at 24th St., and West Jersey Sand Supply Corp., Delaware Ave. and Marlborough St., paving gravel $2,219 each. Grand total $355,530.

N. J., Sparta—Sussex Co., grading and paving 1.5 mi. Lafayette-Sparta Rd., to Liddle & Pfeiffer, 149 New Brunswick Ave., Perth Amboy, $68,671.

Pennsylvania—State Hy. Comn., Harrisburg **(R. means Route and A. Application)**, concrete paving, etc. 15,346 sq.yd. R. 147, Chester Co., to W. Eisenberg $65,891, 5,365 sq.yd. R. 120, Westmoreland Co., to Corrado & Galliardi, Connellsville $103,399, 6,775 sq.yd. R. 110, Greene Co., to Jones Constr. Co., Beallsville $44,644, 2,356 sq.yd. R. 76, Beaver Co., to Kemena Lumber Co., Ambridge $16,240, 26,355 sq.yd. R. 131, Cester Co., to Souder Constr. Co., Woolworth Bldg., Lancaster $109,942, 2,000 sq.yd. R. 525, Cambria Co., to E. H. Brua, Hollidaysburg $6,140, 13,644 sq.yd. R. 496, Erie Co., and 18,109 sq.yd. A. 4421, Clarion Co., to J. C. Devine, Alliance, O. $61,280 and $97,018 respectively, 16,369 sq.yd. A. 4356, Lackawanna Co., and 11,247 sq.yd. R. 355, Lycoming Co., to Tyler & Cole, Meshoppen $69,975 and $95,081 respectively; concrete paving 5,388 sq.yd. and sheet asphalt paving, etc. 3,844 sq.yd. R. 55, Huntington Co., to T. J. Strickler, Huntingdon, $32,016; and sheet asphalt paving, etc. 8,133 sq.yd. R. 312, Mercer Co., to Allegheny Paving Co., Pittsburgh, $13,773. Grand total $716,399. Noted July 28.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to Eastern Asphalt Co., Penn Bldg., asphalt paving (assessment work) Bridge St. $3,156, Cherokee St. $5,082, Clearview St. $7,591, Ella St. $1,887, Front St. $19,185, Marsden St. $3,432, Ross St. $4,369, Valley St. $7,563, Warnock St. $2,041, Wheatsheaf St. $5,069, and 20th St. $5,776, to Union Paving Co., 123 South 21st St., Ditman St. $21,076, Lena St. $2,240, Louden, Tampa and Whitaker Sts. $20,174, Sedgwick St. $5,778, 65th St. $13,557, 65th St. $10,194, and asphalt repaving Hunting Park Ave. $51,751; also to Curtis Bros. State Rd. and Unruh St., improving N St. $813. Grand total $190,734. Noted July 14.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to Duffin Bros., Penn and Wamroth Sts., grading Aramingo, Ditman and Kennedy Sts. $17,543, to S. C. Ratzell, Limekiln Pike and Haines Sts., Cherokee St. $669, Gilham and Greeby Sts. $8,703, and Hasbrook St. $1,421, to T. V. Monoghan, Water and Clarkson Sts., Elsinore, I. J, Malta, Rand, Maywood and Palmetto Sts. $13,330, to M. Leewright, 424 Seville Sts., Gerhard St. $863, to McCarrick Bros., 3240 Fox St., Ryan St. $10,669; to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., asphalt paving (assessment work) Duval St., $5,228, and Horrocks St. $3,103, to Municipal Constr. Co., Inc., Washington Square Bldg., Gratz St. $2,098, Herbert and Salem Sts. $4,103, and 9th St. $5,937; to Union Paving Co., 123 South 21st St., 47th St. $5,445, asphalt repaving Jefferson St. $15,188, Tulip St. $6,929, Allegheny and Sedgley Sts. (track area) $37,309, Market St. $75,982, Spring Garden (track area) $34,818, 52nd St. (track area) $18,747, paving and repaving 9th St. $5,117, also grading and improving 57th St. $5,883; to C. G. Centrone, 522 North 65th St., redressed granite block repaving Panama St. $3,113; to Mazzola & Marano, Inc., 739 South 7th St., 31st and 32nd Sts. (track area) $15,357; to Colcos Steel & Iron Co., 1330 North 30th St., furnish and erecting smoke sheathing Bridge 233 $1,843; to Eastern Asphalt Co., Penna Bldg., asphalt paving mixtures $19,215; to Standard Scale & Supply Corp., 510 Arch St., platform scales $1,274; to J. Dyer Quarry Co., Norristown, furnishing crushed stone $15,349; to J. J. McHugh, 1617 Race St., paving and repaving certain alleys in Highway Dist. 1 $5,751, and to M. and J. B. McHugh, 892 North Markoe St., certain alleys in Highway Dist. 2 $5,731. Grand total $359,868. Noted July 28.

Maryland — State Roads Comn., Baltimore, concrete paving 0.67 mi. road from College Station to College Park, Contr. P-76, Prince George Co., to Thomas, Bennett & Hunter, Westminster, $12,075, and 6 mi. road from end Contr. AA-20 to Gibson, Contr. AA-31, Anne Arundel Co., to Christhilf & Ensey Co., 1625 Ridgely St., Baltimore, $119,000; also graveling 3.3 mi. road from St. Peters Church toward Gallant Green, Contr. Ch-45, Charles Co., to G. B. Mullin Co., 1296 Upshur St., Wash., D. C., $27,867. Grand total $158,942. Noted Aug. 11.

Maryland — State Roads Comn., Baltimore, graveling 1.45 mi. Morganza-Colton State Rd., Contr. Sm-39, St. Mary's Co., and concrete shoulders on 1.5 mi. Georgetown Rd., Contr. M-83, Montgomery Co., to Southern Maryland Constr. Co., 14 East Lexington St., Baltimore, $14,901 and $12,402 respectively; 2.6 mi. road from Wheaton to Four Corners, Contr. M-84, Montgomery Co., to Gosnell, Long Co., Frederick, $22,345, and 1 mi. road from Plummer's Corner to Reedland, Contr. M-79, Montgomery Co., to P. E. Russell, Frederick, $7,952; concrete paving 1 mi. River Rd., Contr. M-58, Montgomery Co., to Corson & Gruman Co., 33rd and K Sts. N. W., Wash., D. C., $56,597, and 1 mi. road from Jarrettsville-Upper Crossroads, Contr. H-51, Harford Co., to Ward & O'Connell, 3114 Presbury St., Baltimore, $20,388; sheet asphalt paving 0.47 mi. Harford Rd., Contr. Bc-72, Baltimore Co., to P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R. tracks, Baltimore, $74,272. Grand total $208,857. Noted Aug. 11 and 18.

Maryland — State Roads Comn., Baltimore, macadam resurfacing 1.16 mi. road from Worthington's Corner to Level, Contr. H-46, Harford Co., to E. F. Murray, 18 Allegany Ave., Towson, $18,308; sheet asphalt paving 0.53 mi. Harford Rd., Contr. Bc-71, Baltimore Co., to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., Baltimore, $78,155; concrete paving 1 mi. road between Westover and Fairmount, Contr. S-24, Somerset Co., to Hannemann-Burroughs Co., Salisbury, $22,696, and 0.08 mi. Rigg Sect. Baker and Wales Sts., Brentwood, Contr. P-51, Prince George's Co., to E. R. P. Smith, Hyattsville, $3,073; concrete shoulders on 1.2 mi. Riggs Rd., Contr. 208-A, Prince George's Co., to J. P. Maher, 4324 15th St., Wash., D. C., $9,086; bridge on Ager Rd., Hyattsville, Contr. P-75, Prince George's Co., to Potomac Bridge Constr. Co., 229 9th St. N. E., Wash., D. C., $9,828. Grand total $141,146.

Maryland—State Hy. Comn., Baltimore, concrete surfacing 1 mi. Contr. F-100, Frederick Co., and 2 mi. Cont. M-81, Montgomery Co., to E. C. Valentine, Frederick, $20,282 and $41,042 respectively; also 2.44 mi. Cont.-K 31, Kent Co., to Old Line Contr. Co., Chestertown, $41,796. Grand total $103,120.

Md., Baltimore — Bd. Awards, concrete paving 4,300 sq.yd. streets listed in Contr. 425, to Mahoney Bros., 1111 Rutland Ave., $6,965; and 25,500 sq.yd. Contr. 424, to P. Reddington & Son, 2 East Lexington St., $58,852. Noted Aug. 25.

West Virginia—State Hy. Comn., Charleston, to Wiley & Waugh, Logan, grading, etc. 3.56 mi. Project 75, Calhoun Co. $64,456, and to F. H. Herring Constr. Co., Valley Fort, 3 mi. Project 3345 Mingo Co. $27,295; to J. J. Battershill & Son, Huttonsville, stone base surfacing 10 mi. Project 3111-A, Sects. 1 and 2, Gilmer & Co. $152,290, to McArthur & Hood, Huntington, gravel surfacing 4.6 mi. Project 159-D, Nicholas Co. $22,420, to Keeley Constr. Co., Clarksburg, 4.8 mi. Project 159-C, Nicholas Co. $27,623, to G. N. and O. J. Yoho, Cameron, 5.4 mi. Project 159-A, Nicholas Co. $42,930, to Huntington Gravel & Supply Co., Huntington, furnishing gravel and gravel surfacing 3.56 mi. Project 3189, $27,370 7.4 mi. Project 3190, $35,645, and 8.9 mi. Project 3302-A and B $42,263, all Wayne Co., to Hatfield Constr. Co. Huntington, 8.9 mi. Project 3202, Wayne Co. $39,508, and to Pinnell & Meredith, Cottageville, 7.4 mi. Project 3190, Wayne Co. $36,592; to W. H. Armstrong & Co., Fairmont, concrete surfacing 1.5 mi. Project 3396, Wetzel Co. $74,415, to Allied Products Co., Cleveland, O., surface treating 2.25 mi. Project 2202, Logan Co. $2,929, to Southern Oil & Tar Co., Clan and Fulton Sts., Louisville, Ky., 7 mi. Projects 87, 2037 and 3298, Mingo Co. $7,376; to C. G. Fuller & Co., Charleston, asphalt surfacing 5 mi. Project 3248-A, Wyoming Co. $5,075, to F. C. Simmons Co., Huntington, 5.56 mi. Project 3189, Wayne Co. $36,011; to Shaid Constr. Co., Elkins, concrete circular arch culvert on Project 2058 Brooke Co., $18,278. Grand total $680,084. Noted Aug. 11.

W. Va., Grantsville—Calhoun Co., grading Route 35, to Plane Constr. Co., Keyser, $98,000.

Alabama—State Hy. Comn., Montgomery **(e.e. means engrs. est.)**, graveling 14.06 mi. roadway between Seale and Girard, Russell Co., to Newell Constr. Co., Martin Bldg., Birmingham $65,174 e.e. $66,000, and 18.81 mi. roadway between Union Springs and Barbour Co. line, Bullock Co., to C. G. Kershaw, Woodward Bldg., Birmingham $191,062 e.e. $152,500; graveling and sand clay paving 22.4 roadway between Greenville and Luverne, Butler and Crenshaw Counties, to Moore & Law, Tampa, Fla., $99,940 e.e. $100,200; sand clay paving 12.14 mi. roadway between Geneva and Samson, Geneva Co., to H. Foster, Luverne, Ala., $51,456 e.e. $52,100, 9.72 mi. roadway between Ozark and Enterprise, Dale Co., to N. Giddens, Troy, $18,407 e.e. $19,100, 6.77 mi. roadway between Andalusia and Opp, Covington Co., and 18.45 mi. roadway between Samson and Opp, Geneva and Covington Counties, to Gillis Constr. Co., Brewton, $25,717 and $82,474 respectively e.e. $26,300 and $83,000 respectively; grading, etc. 6.57 mi. roadway between Mobile Co. line and Fruitdale, Washington Co., to Z. D. Fountain, Hattiesburg, Miss., $39,696 e.e. $40,200, 13.24 mi. roadway between Demopolis and Moscow, Marengo Co., to B. C. George & Co., Starkville, Miss., $106,286 e.e. $107,000, 16.02 mi. roadway between Foley and Loxley, Baldwin Co., to Simms, Skelley & Chapman, Orlando, Fla., $52,905 e.e. $53,100, 18.5 mi. roadway between Uniontown and Demopolis, Perry, Marengo and Hale Counties, to W. J. Bryson, Montgomery $121,196 e.e. $122,500, 11 mi. roadway between Waverly and Camp Hill, Tallapoosa Co., to J. W. Gwin, Hamilton Station, Birmingham, $76,648 e.e. $77,100, all foregoing 18 ft. wide; also constructing 250 ft. overead concrete crossing, 20 ft. over Atlantic Coast Line R.R. tracks near Snowdoun, Montgomery Co., to Champanois & Blanks, Meridian, Miss., $17,937 e.e. $18,000. Grand total $948,898. Noted Aug. 4.

Alabama—State Hy. Comn., Montgomery **(e.e. means engrs. est.)**, graveling and top soiling 23.34 mi. roadway in Cleburne Co., and chert surfacing 5.33 mi. roadway De Kalb Co., to Newell Contg. Co., 3828 Ave. A, Birmingham, $67,725 and $65,750 respectively e.e. $70,000 and $67,000 respectively; grading, etc. 8 mi. roadway between Pell City and Cook Springs, Bankhead Highway, St. Clair Co., and graveling 5.75 mi. roadway, Lamar Co., to H. N. Donohoo, 510 North 21st St., Birmingham, $84,057 and $57,952 respectively e.e. $85,000 and $60,000 respectively, 11.15 mi. roadway towards Athens, Madison Co., and graveling and chert surfacing, 11.15 mi. Huntsville-Athens Highway, Limestone and Madison Counties, to R. M. Smith Co., Amer. Trust Bldg., Birmingham $103,380 each e.e. $105,200 and $105,000 respectively; graveling 11.44 mi. roadway from Athens to Huntsville, Limestone Co., J. W. Gwin, Hamilton Sta., Birmingham, $101,196 e.e. $102,100, 3.43 mi. roadway through Marion Co., Marion Co., to Nixon & Phillips, Amer. Trust Bldg., $34,418 e.e. $35,500; grading 16.22 mi. roadway, Cherokee Co., to W. C. McCoy, Lincoln Life Bldg., Birmingham, $90,453 e.e. $95,000, and 8.46 mi. Moulton-Decatur Highway, Morgan and Lawrence Counties, to J. B. Turner, Amer. Trust Bldg., Birmingham, $71,211 e.e. $73,500, all foregoing 18 ft. wide. Grand total $779,522. Noted Aug. 4.

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LET'S LOOK INTO HANDLING COSTS!

HERE are some material handling costs based on a time study of Industrial Machines operating eight hours a day, with one operator working eight hours a day, at 80c. per hour. The operating cost includes depreciation over a period of ten years, interest on the investment, fuel, labor, oil, grease and maintenance.

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CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Dam, California, Los Angeles City and Los Angeles Flood Control Dist. plan dam, $4,600,000.

Hotel and theatre, Brooklyn, N. Y., Shelburne Constr. Co. having plans prepared, $4,000,000.

Land development, Weslaco, Tex., Progress Development Co., Houston, making plans, $3,500,000.

Railway, Texas, Clinton & Oklahoma Western R.R. Co. making surveys, $3,000,000.

Home and hospital, Mayview, Pa., Dept. Charities, Pittsburgh, having plans prepared, $2,500,000.

Wharves, New Orleans, La., Dock Bd. had preliminary plans prepared, $2,000,000.

Store, Seattle, Wash., F. McDermott having plans prepared, $2,000,000.

Women's prison, New York, N. Y., Dept. Correction, $2,000,000.

Apartment, New York, N. Y., Four Hundred Seventy West End Avenue Corp. having plans prepared, $1,500,000.

Sewer, Vancouver, B. C., Vancouver & Dist. Joint Sewage & Drainage Bd. making plans, $1,500,000.

Dam, Ste. Julienne, Que., Gatineau Power Co. soon takes bids, $1,000,000.

Refrigeration plant, Dallas, Texas, Stevenson Engr. Co. soon takes bids, $1,000,000.

Bids Desired

Sewers, St. Louis, Mo., Sept. 27, by Bd. Pub. Serv., $3,071,000.

Exchange and office, Oklahoma City, Okla., Sept. 15, by Southern Bell Telephone Co., $3,000,000.

Apartment hotel and store, Pittsburgh, Pa., P. M. Julian, archt., Washington, D. C., taking bids, $2,000,000.

Hospital, Brooklyn, N. Y., Lord & Hewlett, archts., New York City, taking bids, $1,600,000.

Theatre and commercial building, Rochester, N. Y., Sept. 28, by Graven & Mayger, archts., Chicago, Ill., $1,500,000.

Warehouse, Houston, Texas, A. S. Bergendahl, archt. and engr., soon takes bids, $1,000,000.

Bids Received

Auditorium and library, Los Angeles, Calif., Regents of University of Calif., general contract from J. C. Bannister and F. Gow, $1,490,000; subcontracts, $175,421.

Contracts Awarded

Produce terminal, **Los Angeles, Calif.**, Central Mfg. Dist. Co., 1st unit, to W. P. O'Neil Co., approximately $1,500,000, total, $3,500,000.

Bridge, St. Louis, Mo., J. R. Scott, Jr., substructure to Union Bridge Constr. Co., Kansas City; and superstructure to American Bridge Co. Engrs. est., $2,500,000.

Hotel, Los Angeles, Calif., Central Investment Co. to Scofield Engr. Constr. Co., $2,250,000.

Cement mill, White Cliffs, Ark., Ideal Cement Co., Denver, Colo., will build by day labor, $2,000,000.

Club, Pittsburgh, Pa., Keystone Athletic Club to Mellon Stuart Co., $1,900,000.

Elevator, Montreal, Que., Harbor Comm. of Montreal to E. G. Cope & Co., Ltd., $1,800,000.

Hospital and nurses home, and power plant, Newton, Mass., Newton Hospital to Holt-Fairchild Co., Boston, archt. est., $1,500,000.

Apartment, New York, N. Y., V. Astor to George A. Fuller Co., archts est., $1,000,000.

Temple, Boston, Mass., Congregational Adath Israel Temple, general contract to C. S. Cunningham and subcontracts. Archts. est., $1,000,000.

News of the Week

Waterworks

Proposed Work

Pa., Pittsburgh—Soon takes bids North Side Intermediate Reservoir, Lafayette St. and Biggs Ave., incl. excavation, subfoundation and embankments, drains, manholes, etc. $185,000. Bureau of Water, City County Bldg., engrs.

Ind., Evansville—Bd. Wks., E. Heberer, pres., City Hall, making plans extending waterworks. $1,000,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted July 7.

Mich., Detroit—Making plans waterworks incl. pumping station, filtration plant and coagulation basin, on Lake St. Clair, $641,000. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Ark., Texarkana — City Water Corp., making preliminary plans 110 m.g. storage reservoir, additional fire pumps and distribution mains. $200,000. G. W. Briggs c/o owner, engr.

Tex., Catarina—See "Unclassified."

Tex., Devine — Takes bids after Sept. 17, waterworks, incl. distributing system, pumping unit, etc. $45,000. Walton & Arneson, 618 Gunter Bldg., San Antonio, engrs. Noted Sept. 1.

Tex., Weslaco—See "Unclassified."

Okla., Oklahoma City — Making preliminary plans new conduit line from reservoir to filtration plant, incl. 90,000 ft. 54 in. c.i. pipe. $750,000 bond election soon for same. B. M. Hart, City Hall, engr.

Okla., Perry—Making preliminary plans 13,300 ft. 4- to 8-in. c.i. mains in various streets. $20,000 bond election soon for same. C. A. Wood, Stillwater, engr.

Okla., Rocky—Voted $21,000 bonds, new wate works, incl. deep well pump and motor, etc. W. D. Sanders, mayor. Engineer not announced.

Wash., Aberdeen — C. S. Watkins, supt. Water Dept., making plans industrial water supply from lower Wynooche River. $1,-Apr. 21.

Wash., Port Townsend — Voted $800,000 bonds, waterworks, plant delivers 14 m.g.d., on Quilcene River. Noted Mar. 3.

Calif., Alhambra—Making plans c.i. mains in San Clement and Montezuma Aves., etc. $25,000 or more.

Calif., Redwood City—Ravenswood Water Dist. voted $30,000 bonds, Matheson joint, welded steel or c.i. pipe line. G. A. Kneese, Courthouse, Redwood City, engr. Noted Aug. 4.

Calif., Santa Monica—Plans domestic water and fire protection system in 23rd St., etc. To exceed $25,000.

Calif., Tracy—Making plans enlarging water supply. $15,000 or more. E. T. Bartlett, city engr.

Ont., Brantford—Council plans filtration system, $40,000. N. R. Wilson, Water Dept., engr. R. S. and W. S. Lea, 340 University Ave., Toronto, consult. engrs.

Ont., Hamilton — Plans rein.-con., reservoir west end of city and improving Ferguson Ave. pumping station. $800,000. W. L. McFaul, City Hall, engr.

B. C., Vancouver — Greater Vancouver Water Dist. Bd., making plans extending Seymour main from Rupert St. and 22nd Ave. to Central Park at Boundary Rd. for 5,000 bbl. cement, for above, to Balfour Guthrie & Co., 739 West Hasting St., Evans, Coleman & Evans, Ltd., foot of Columbia Ave. and New Method Coal & Supplies, Ltd., foot of Main St., at $2.80 per bbl.

> *THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.*
>
> *Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.*

Bids Desired

N. Y., Harriman—Sept. 29, by Village Trustees, Harriman School, waterworks, incl. reservoir, mains, etc. H. J. Harder, 129 Market St., Paterson, N. J., engr., adv. E. N.-R. Sept. 15.

N. J., Denville—Sept. 21, by Twp. Comn., Township Hall, water pipe, fittings, hydrants, etc. G. W. Knight, 147 Prospect St., Passaic, consult. engr.; adv. E. N.-R. Sept. 15.

Pa., Phila.—Sept. 19, by Dept. Pub. Wks., Bureau of Water, chlorine apparatus, for Belmont mechanical filters, Contr. 899. G. H. Biles, dir.

Md., Oxford—Sept. 21, by City Comrs., complete pump, motor, etc., for pumping station, excavating and backfilling 3 mi. trenches, laying 6 and 8 in. c.i. main, and 100,000 gal. steel water tank. Kastenhuber & Anderson, P. O. Drawer R, Easton, engrs.; adv. E. N.-R. Sept. 15.

Fla., Bradentop—Sept. 27, by City Council, drilling and completing 12 in. well, approximately 800 ft. deep. R. K. Van Camp, com. Pub. Wks.; adv. E. N.-R. Sept. 15.

Fla., Plant City—Sept. 26, by City, waterworks equipment, E. H. Thompson, city mgr., adv. E. N.-R. Sept. 15.

O., Cleveland—Sept. 21, by Bd. Comrs. Cuyahoga Co., 13,500 lin.ft. 6- to 12-in. c.i. main in Bradley Rd., Impvt. 1257, and 20,000 lin.ft. 6 and 8 in. in Cook Rd., Hamlin St., etc., Impvt. 1452.

Mich., Detroit—Oct. 5, by Bd. Water Comrs., 176 East Jefferson Ave., 10,000 g.p.m. electric motor driven centrifugal pumping unit. G. H. Fenkell, gen. mgr.; adv. E. N.-R. Sept. 15.

Neb., Hastings—Sept. 26, by City, 670 ft. 8 in. Class B mains in Water Dist. 74, and 1,800 ft. 6 in. Class B mains in Water Dist. 75; also 3,800 ft. 8 in. vitr. clay or concrete sewer in Sewer Dist. 117. P. T. Naylor, City Hall, engr.

Tex., Marathon—Borderland Utilities Co., Ft. Stockton, taking bids improving waterworks, here. $15,000. Private plans.

Tex., San Antonio — See "Contracts Awarded."

Colo., Denver—Sept. 20, by Bd. Water Comrs., 1509 Cleveland Pl., approximately 4,581 ft. 66-in. steel or pre-cast rein.-con. conduit known as Conduit 13, along Clayton St., from 1st Ave. to Capitol Hill Reservoir. D. D. Gross, c/o owner, engr.

B. C., Vancouver—Sept. 29, by Greater Vancouver Water Dist. Bd., 4,500 ft. 18 in., 1¼ in. thick plain spigot and faucet c.i. pipe. $30,000. E. A. Cleveland, 500 Beatty St., engr.

B. C., Vancouver—Sept. 29, by E. A. Cleveland, engr., 500 Beatty St., one 72, 60, and 48 in., two 36 in., two 32 in., five

See proposal advertising on page 136

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Laid 10 miles of water main—and satisfactory in every particular!

—said a waterworks engineer of national reputation, referring to this installation

Here is the story:—

THE Second Taxing District, South Norwalk, Connecticut, U.S.A., has just completed the installation of approximately ten miles of cast iron bell and spigot water mains, varying in size from 6" to 18". The work included the placing of about fifty cutting-in-tees on existing piping and their connection to new work.

Leadite was selected for jointing material after receiving competitive bids for laying with lead.

The total amount of the successful bids for all work, excepting the furnishing of the cast iron pipe, specials and valves, was as follows:

Lead Joints	$155,631
LEADITE Joints	142,535
Difference	$ 13,096
Saving in favor of **LEADITE**	8.4%

The work was performed by contractors experienced in the use of this material and was satisfactory in every particular.

Specifications required that after laying, the pipe should be tested for leakage under water pressures varying from 40 pounds to 115 pounds per square inch, and that the leakage should not exceed two gallons per 24 hours per linear foot of joint. The results of the tests were well within this limit.

This work was under the direction and supervision of Mr. Nicholas S. Hill, Jr., Consulting Engineer, 112 East 19th Street, New York, N.Y., U. S. A.

Leadite is used extensively by thousands of water works engineers, superintendents and contractors with excellent results.

Specify and use
LEADITE
It saves at least 75%

Be sure it is
LEADITE
and accept no imitations

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA., U. S. A.

NO CAULKING

Waterworks (Continued)

24 in., five 18 in., eighteen 12 in., ten 8 in., thirty-five 6 in., and thirty-five 4 in. gate valves, for Greater Vancouver Water Dist. $15,000.

Contracts Awarded

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 59th, 77th, 78th Sts., etc., here, to Pallasino Contg. Co., 1479 Park Ave., New York City, $8,672. Noted Aug. 25.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., 36 in. steel mains in Central Park and 5th Ave., Manhattan Boro, also in Barker, Brunner, Cambeling Aves., etc., Bronx Boro, to Beaver Eng. & Contg. Co., 51 Chamber St., $115,634 and $8,060 respectively. Noted Aug. 18.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, Contrs. 894 and 895, to Keystone State Piping & Constr. Co., 738 East Venango St., $6,125 and $4,045 respectively; Contr. 896, to Ehret Magnesia Mfg. Co., 1325 West Cumberland St., $625; Contr. 897, to M. and J. B. McHugh, 892 North Markoe St., $123,938; and Contr. 898, to Acme Machine Co., 27 North 38th St., $2,335. Grand total $137,068. Noted Aug. 25.

Pa., Pittsburgh—Steam turbine driven centrifugal pumps at Ross Pumping Sta., to Dravo Doyle Co., Penn Ave. and 2nd St. $174,200. Engrs. est. $210,000. Noted June 23.

Pa., Pittsburgh — Sub-foundation work grading, etc., for Brashear Reservoir, Montana Ave., to Pitt Constr. Co., Empire Bldg., $50,650. Engrs. est. $85,000. Noted May 5.

N. C., Goldsboro — Pumping station, to A. H. Guion Co., Gastonia, $27,000. Noted Aug. 18.

N. C., Raleigh—Clear water basin, to R. G. Lassiter & Co., Citizens Bank Bldg., $48,352.

N. C., Rockingham — Waterworks, incl. dam, 7,700 ft. main, and filtering plant, to V. B. Higgins, 612 Kingston Ave., Charlotte, $82,500.

O., Cleveland — Cuyahoga Co., 9,000 ft. 12 in. c.i. mains in Hall and Detroit Rds., to Mutual Constr. Co., 239 Bradley Court, $37,065, and 6,000 ft. 6 and 8 in. mains in Elmwood Rd., to Abood & Lewis, 626 Huron Rd., $16,745.

Mich., Detroit—Detroit Fire Dept., 1,000 Detroit Fire Dept. Standard Fire Hydrants, f.o.b. Detroit, to Michigan Valve & Fdry. Co. 3631 Parkinson St., at $56.95 each, total $56,950.

Mich., Detroit — Dept. Water Supply, brick, steel and concrete, weir and control chambers at Water Works Park, to M. Bartholomaie & Son Co., 1574 East Warren Ave., approximately $15,000.

Mich., Royal Oak (Ind. br. Detroit)—To Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, 12,000 ft. 6 in. c.i. pipe at $0.595 per ft., 7,000 ft. 8 in. $0.85, and 180 ft. 16 in. $2.56.

Wis., Wauwatosa—Milwaukee Co. Institutions, 8,989 ft. 16 in. c.i. mains, hydrants, etc. for institutions, here, to W. T. Werner, 675 Hi-Mound Blvd., Milwaukee, $19,660.

Kan., Bonner Springs—A. G. Parker, city clk., waterworks improvements, to Wayne Western Co., 507 Mutual Bldg., Kansas City, Mo., $16,100. Noted Aug. 4.

Mont., Phillipsburg—Approximately 14,400 lin.ft. pipe for water supply line from south fork Boulder Creek to city reservoirs, to W. N. Fesler, Phillipsburg at $0.14 per ft.; constructing above supply line to Amer. Wood Pipe Co., 32nd and Cedar Sts., Tacoma, Wash., $10,724; and 5 concrete dam structures, to G. M. Roberts, Phillipsburg, $950. Noted May 12.

Tex., San Antonio—Will lay 8 and 10 in. additional mains in Highland Park section, by day labor, $16,000 equipment. I. Ewig, city engr.

Calif., Los Angeles—To Crane Co., 321 East 3rd St., 25,000 ft. ½ in. wrought iron pipe at $7.07 per 100 ft., 75,000 ft. ¾ in. $7.75, 100,000 ft. 1 in. $10.90 and 4,000 ft. 2 in. $19.24.

Ont., Goderich—For two-170 hp. gasoline engine, two 750 and one 650 gal. centrifugal pumps with electric motor, to Turbine Equipment Co. Ltd., 73 King St. W., Toronto. Engrs. est. $15,000.

Que., Montreal—Enlarging 2 rapid sand filteration basins, 50,000,000 imp. g.p.d. capacity, to Atlas Constr. Co., Ltd., Belmont St., $1,013,140.

B. C., West Vancouver — New Nelson Creek waterworks, intake, pipes, etc., to Bartholomew & Montgomery, 510 Hastings St., Vancouver, $54,100.

Sewers

Proposed Work

Massachusetts—South Essex Sewerage Dist., Salem, 4,150 lin.ft. 33 x 34 and 30 x 42 in. concrete trunk sewers in Sect 7. Beverly and Danvers, from Welch & Moynihan, Salem, $72,000.

Pa Pittsburgh—Soon takes bids 15 in. terra cotta sewers in Broad, Herrod, Werder, Milford, and Danley Sts., etc. $40,000. Dept. Pub. Wks., City County Bldg., engrs.

N. C., Clayton—Making plans and soon takes bids 2½ mi. vitr. sewers, etc. in various streets. W. N. Pitt, Durham, engr.

O., Cincinnati — Hamilton Co. plans sewage disposal plant for Sewer 31, Dist. 7, $76,219; and 107,565 ft. 6- to 15-in. vitr. clay sewer in above district, $431,187. L. C. Boyatt, Court House, engr.

O., Salem—Plans sewage disposal plant. $193,000 bond election in November for same. E. S. Barckhoff, Salem, engr.

O., Wellsville—Bd. Control plans sewer in McQueens Run. $100,000.

Mich., Muskegon — Pearce, Greeley & Hansen, engrs., 6 North Michigan Blvd., Chicago, Ill., submitted report sewage disposal works, here, for City. $1,000,000. Noted Mar. 24.

Neb., Hastings—See "Waterworks."

Tex., Amarillo—Takes bids about Oct. 1, new sewage disposal plant. $350,000. Wynkoop Kiersted, 614 Interstate Bldg., Kansas City, Mo., engr. H. B. Jones, city engr. Noted Aug. 25.

Tex., Lockney—Hawley & Roberts, engrs., Leader Bldg., Lubbock, and Cotton Exch. Bldg., Ft. Worth, soon take bids sewers in various streets, here, for City, T. Z. Reed, mayor. $55,000 bonds voted.

Tex., Weslaco—See "Unclassified."

Tex., Yakum—Making preliminary plans extending sewers, etc. into outlaying districts. $75,000 bonds election soon for same. Terrell Bartlett Engineers, Calcasieu Bldg., San Antonio, engrs.

Calif., Colton—Plans extending sewers in nothern section city. To exceed $25,000.

Calif., Compton—Making plans 15,000 lin.ft. 8 in. vitr. sewers, etc. in Belle Vernon Acres. G. Rood, city engr.

Calif., Coronado—T. H. Messer, city mgr. making estimates sewage disposal plant. $30,000 or more.

Calif., Fullerton—Made plans 19,974 ft. 6- to 10-in. vitr. sewer, etc. in Basque Ave., etc. C. M. Thorpe, city engr.

Calif., Monterey—Defeated $25,000 bonds, storm sewer in lower section city.

Calif., Pomona—Making plans 8 in. vitr. sewers in 8th and 9th Sts., etc. $25,000 or more. F. C. Froehde, city engr.

Calif., San Francisco—Making plans sewer in Noriega St. $35,000 or more. M. M. O'Shaughnessy, city engr.

Calif., San Gabriel—Voted $55,000 bonds, drains, sewers, culverts, etc. in various streets.

Calif., Southgate—Plans concrete sewer, c.i. water mains, etc. in various streets. To exceed $25,000. E. M. Lynch, Central Bldg., Los Angeles, engr.

Calif., Westmoreland — Westmoreland Sanitary Dist. plans sewer and drainage construction. To exceed $25,000.

B. C., Vancouver — Vancouver & Dist. Joint Sewage & Drainage Bd., making plans 5 to 6 mi. False Creek Interceptor Sewer. $1,500,000.

Bids Desired

Mass., Boston—Sept. 21, by Dept. Pub. Wks., sewerage works in various streets in Dorchester. $25,000. J. H. Sullivan, comr.

Mass., Cambridge—(br. Boston)—Sept. 23, by Pub. Buildings Dept., City Hall, 1 story, rein.-con. offal receiving building, Raymond St. $65,000. Blackall, Clapp & Wittemore, 31 West St., Boston, archts.

N. Y., St. George — Sept. 21, by J. A. Lynch, pres. Richmond Boro, Boro Hall, sewerage system in Linoleumville; temporary storm water system in Victory Blvd.; also granite block paving area 2 ft. wide adjoining trolley tracks on Richmond Terrace.

N. J., Hawthorne—Sept. 30, by Boro Comrs., J. A. Shea, clk., School 1, Lafayette Ave., sewerage eystem. H. J. Harder, 129 Market St., Paterson, engr., adv. E. N.-R. Sept. 15.

Ky., Louisville—Oct. 7, by Commissioners of Sewerage, M. H. Crawford, chn., Bd. of Trade Bldg., 3rd and Main Sts., Emerson Street Sewer, Contr. 35. J. B. F. Breed, ch. engr.

O., Cleveland—Sept. 21, by City, covered sludge drying beds and storm drain in Southerly Sewage Disposal Plant. G. B. Gascoigne, Leader Bldg., engr.

O., Delphos—Nov. 15, by Bd. Control, sewage filtration plant. $185,115.

O., Willowick — Sept. 24, by Village, sewers in Vine Street Dist. $125,000. Sterling Eng. Co., 7016 Euclid Ave., Cleveland, engr.

Ind., Princeton—Sept. 26, by City, 2 mi. sewers in various streets. $100,000. Private plans. Address City Clerk, Princeton.

Mich., Halfway — Sept. 21, by A. J. Wendt, village clk., 13,604 ft. 18- to 66-in. vitr. or concrete sewer, etc. in Sewer Dist. 3; and 29,136 ft. 12- to 37-in. sewers, etc. in various streets. H. R. O'Mara, Halfway engr.; adv. E. N.-R. Sept. 15.

Ill., Chicago—Sept. 22, by M. J. O'Brien, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., Salt Creek Intercepting Sewer, Contr. 2; adv. E. N.-R. Sept. 15.

Mo., St. Louis — Sept. 27, by Bd. Pub. Serv., 208 City Hall, two 25 x 29 ft. rein.-con. arch sewers, etc. in Sect. D of River Des Peres Project. $3,071,000. W. W. Horner, 300 City Hall, engr.

Tex., Amarillo—Taking bids 2½ mi. 6- to 18-in. vitr. or concrete sewer in San Jacinto, Roberts Pl., Country Club and Old Town additions. $100,000. H. B. Jones, city engr.

Tex., Houston—Oct. 19, at office of City Secretary, monolithic concret sewers, etc., in Reinermann St., etc. O. F. Holcombe, mayor, adv. E. N.-R. Sept. 15.

Okla., Hobert—Sept. 21, by C. R. Williams, city clk., 14,500 ft. 8 and 10 in. vitr. clay sewers, etc. in sewer Dists. 5 and 6.

Ont., Toronto—Sept. 27, by T. H. Foster, mayor, ½ mi. concrete or brick trunk sewer in Eglinton, Tyrol and Ingwell Aves. $100,000. R. C. Harris, City Hall, engr.

B. C., Point Grey — See "Contracts Awarded."

Contracts Awarded

Mass., Beverly—South Essex Sewerage Dist., Fort Ave., Salem, pumping station, inlet and sewers in various streets here, to Engineering Serv. & Constr. Co., 220 Devonshire St., Boston, $27,209. Noted Aug. 18.

Mass., Wellesley — Sewers in various streets, to A. Cefalo, 316 Belgrade Ave., Roslindale, $19,000. Noted Sept. 1.

Pa., Phila.—Dept Pub. Wks., Bureau of Engineering, to D. Delisa, 4842 North Leithgow St., branch sewer in Bouvier St. $7,978, Ontalauna St. $2,469, Sprague St. $3,069, and Willard St. $4,434; to S. Vallone & Co., 1720 South Chadwick St., Chancellor St. $6,584; to A. Bonitatibus, 300 Mt. Pleasant Ave., Clivedon St. $7,500; to A. Mattia, 310 North 65th St., 4th St. $1,954, Redfield St. $5,367, Graham St. $2,884, and Salford St. $2,136; to A. Perna & Son, 752 South 10th St., Hermitage St. $6,888, and Lawnton St. $7,856; to O'Neill Co., 127 East Mermaid St., Maywood St. $7,374 and Medary St. $4,708; to Vattieri & Pontarelli, 523 Rising Sun Ave., 17th St. $16,574; to E. F. Bennis, 825 East Washington Lane, 77th Ave. $7,416; to Mundy Paving & Constr. Co., 226 South Warnock St., Lyndenham St. $2,853; to V. S. Campellone, 3856 North 10th St., Van Kirk St. $10,104; and to Hamilton Co., Green and Cheltenham Aves., Washington Lane $17,343. Grand total $125,491. Noted Aug. 18.

N. C., Wilson—For 33,200 lin.ft. 2- to 18-in. vitr. sewers in various streets, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $38,000. Noted Aug. 11.

Ky., Southgate—City Clerk, 22,700 ft. 6- to 10-in. vitr. clay sewers in various streets, to J. B. McLean, York St., Newport, $70,058. Engrs. est. $80,000. Noted Sept. 8.

O., Akron—W. F. Peters, dir. Pub. Serv. 78,960 ft. 8- to 24-in. vitr. clay and 7,690 ft. 30- to 75-in. segmental block trunk and lateral sewers, etc. in Arlington St. et al., to Shullo & DeLuca Constr. Co., 140 North Summit St., $204,258. Engrs. est. $273,500. Noted July 21.

O., Cleveland—Cuyahoga Co., 10,000 ft. 8- to 30-in. tile sewer in Elmwood Rd., to J. B. Lynn Constr. Co., 16311 Saranec Rd., $26,594.

O., Willowick—For 1.5 mi. sewers in 6 streets, to A. Marra Co., Engineers Bldg., Cleveland, $95,073.

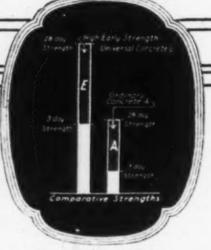
Ill., Dalton—For 8- to 24-in. vitr. tile and 24- to 84- in. concrete sewer in various streets, to Pastoret-Dorsey-Barrett Co., Duluth, Minn., $230,264. This corrects report in July 21 issue.

Mich., Detroit—Dept. Pub. Wks., Lateral Sewers 4840, 4842, 4850, 4852, and 4846, to J. Rossi, 4148 Seneca Ave., $86,681; Laterals 4847, 4821, 4851 and 4884, to United Sewer Corp., 7323 Emanon Ave., $71,008; Lateral 4857, to J. Monte, 15905

Constr. News page 130

. . . answering your Questions regarding High-Early-Strength Concrete

QUESTION	ANSWER
1—What is *High-Early-Strength* Universal Concrete?	Concrete with a *3-day* strength equal to the *28-day* strength of ordinary concrete.
2—Are special materials and equipment needed?	No. It is made with the *usual* materials, *usual* labor, *usual* equipment and standard Universal cement, all applied according to thoroly tested methods.
3—What is its chief advantage?	Saves time! Concrete for foundations, buildings, sidewalks, pavements and improvements of all kinds is made ready for use in *3 days* instead of *3 weeks.*
4—Is there any additional important advantage?	Yes. Such concrete not only has a higher *early* strength, but also a greater *ultimate* strength and therefore is *permanently* better and stronger than ordinary concrete. (See diagram.)
5—Is its use restricted to certain kinds of jobs?	No. Because it may be made as workable as desired, *High-Early-Strength* Universal Concrete is used for any and all kinds of concrete work.
6—Has *High-Early-Strength* Universal Concrete been fully tested?	Yes. Thousands of laboratory tests, years of experiment and hundreds of actual jobs prove the value of *High-Early-Strength* Universal Concrete.
7—What other advantages does *High-Early-Strength* Universal Concrete offer?	It is unnecessary to stock extra brand of material as *High-Early-Strength* concrete is obtained with the *usual* materials, *usual* labor, *usual* equipment and the same quality Universal cement as used for ordinary construction.
8—Where can I get detailed information on *High-Early-Strength* Universal Concrete?	Full details for use on any concrete work will be sent promptly on receipt of the coupon below.



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High-Early-Strength concrete "E" made by using special methods and standard Universal cement is *permanently* better and stronger than concrete as ordinarily produced as shown in the diagram. More detailed information furnished promptly on request. Just use the coupon.

Name..........

Address..........

UNIVERSAL PORTLAND CEMENT CO.
210 South La Salle Street, Chicago
Without obligation, please send me detailed information on methods of securing strong concrete in 3 days with the usual materials and equipment.
ENR 9-15-27

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Sewers (Continued)

Welland Ave., $17,200; and Lateral 4845 to Dept. Pub. Wks., City Hall, $4,345. Grand total $179,234. Noted June 9.

Mich., Detroit—Dept Pub. Wks., Fisher Ave. Storm Sewer in Fisher Ave., to Lennane & McIlvenna, 7777 West Chicago Blvd., $579,979; and Connors State Fair Arm, Connors Creek Sewer, to Central Contg. & Eng. Co., 17576 Wyoming Ave., $195,327. Noted Sept. 1.

Mich., Detroit—Dept. Pub. Wks., City Hall, to S. J. Fattore, 1118 Lafayette Bldg., Griggs-Curtis Arm, Sect. 1, $38,489; to DiPonio Constr. Co., 15344 Wabash Ave., Seven Mile Rd. Arm, East, Sect. 1 Hubbell Ave. Sewer $43,639; to Ianni Constr. Co., Transportation Bldg., Avon Avenue Arm, north of Grand River Ave. Sewer $24,623; to Central Contg. & Eng. Co., 17576 Wyoming Ave., Grand River Ave., East Berg Rd. Sewer $34,678; to Jeynes & Son, Woodmere Ave., Pembroke Ave. Arm, East Hubbell Sewer, $152,170; to J. Rossi, 4148 Seneca Ave., Lateral Sewer 4840 $35,067, Lateral Sewer 4842 $16,750, Lateral Sewer 4850 $20,000, Lateral Sewer 4852 $8,000, and Lateral Sewer 4846 $6,865; to United Sewer Corp., 7323 Emanon St., Lateral Sewer 4847 $3,458, Lateral Sewer 4821 $48,000, Lateral Sewer 4851 $6,600, and Lateral Sewer 4884 $13,550; to J. Monte, 15905 Welland Ave., Lateral Sewer 4857 $17,200, and Lateral Sewer 4835 $18,725; to Dept. Pub Wks., City Hall, Lateral 4845 $4,345; to Western Constr. Co., 5123 Wesson Ave., Lateral Sewer 4844 $34,970, Lateral 4862 $2,900, Lateral 4863 $3,778, Lateral 4864 $2,400, and Lateral 4884, $7,550; to B. Cornacchia, 17644 St. Louis st., Lateral 4861 $4,515, and Lateral 4865 $5,714; to F. DiCicco & Son Co., 7 East Grand Ave., Lateral 4881 $3,639; and to A. Rossi, 5307 Pennsylvania Ave., Lateral 4868 $5,493. Grand total $589,248.

Ia., Sutherland — Sewage disposal plant with Imhoff tank, trickling rock filters, dosing chamber, sludge bed and 4,500 ft. 12 main sewer, etc., to Royer Constr. Co., 1322 10th St., Des Moines, $16,950. Noted June 23.

Kan., Kansas City — Sewers in West Argentine Sewer Dist., to Brown Bros., 32nd and Barber Sts., $30,400. Noted Aug. 4.

Tex., Harlingen—For 21,300 ft. 18-to 48-in. sewers in various streets, to Panhandle Constr. Co., P. O. Box 481, Lubbock, $84,713. Engrs. est. $90,000. Noted Aug. 11.

Tex., Houston—Sewers in Roanoke and Clinton Sts., to Walker & Elder, San Antonio, $38,129.

Tex., San Benito—For 28 and 42 in. Monolithic sewer in various streets, to Agar & Gentry, San Benito, approximately $25,000.

Okla., Tulsa—Extending 8,400 ft. 36- to 72-in. rein.-con. sewers in Storm Sewer Dist. 6, to Standard Paving Co., 1742 East 6th St., $46,787. Engrs. est. $52,000.

Ore., Portland—Approximately 6,054 ft. 6- to 15-in. sewers, etc. in Russell St. and Mallory Ave., to Sttergren Bros. & Lind, Portland, $33,766. Engrs. est. $40,078.

Calif., Hawthorne—Sewer in Wilbur Ave. between West Hawthorne Ave. and west city limits, to G. H. Oswald, 366 East 58th St., $55,158.

Calif., Los Angeles—Los Angeles Co., main trunk sewer in Sanitation Dist. 5 between Strawberry and Western Ave., to C. and K. Thompson, 701 Brokman Bldg., $232,102.

Calif., Los Angeles—Sewer in Fox Hills Dr. between Missouri and Lauriston Aves., to J. Chutuk, 343 Wilcox Bldg., $40,844. Engrs. est. $51,834.

Calif., Oakland—Concrete culvert and vitr. sewerage system in Shafter Ave. extension between Bway. and Presley Way, to A. F. Anderson, 1093 Longeridge Rd., $27,160. Noted Aug. 25.

Ont., Leaside—For 2 mi. vitr. tile sewers in various streets, to R. H. McGregor, Sammon Ave., Toronto. $33,839. Engrs. est. $35,000.

Ont., Toronto—For Sects. A and B North Toronto Sewerage System, incl. brick and concrete sewers in tunnel, to J. Maguire Constr. Co., 964 Mt. Pleasant Rd., $41,447. Engrs. est. $40,000.

B. C., Point Grey—Will install sewers in imperial street drainage area, by day labor. $39,925. W B. Greig, 5851 West Boulevard, Vancouver, engr.

B. C., Vancouver—Vancouver Dist. Joint Sewage Bd., 500 Beatty St., to Evans, Coleman & Evans, foot of Columbia Ave., 4220 bbl. cement at $2.80 per bbl., 50,000 lb. ⅜ in. deformed steel $0.03225, 100,000 vitr. bricks $50.50 per M, 5,600 ft. 8 in. drain tile $139 per M, to Tynmore Sand & Gravel Co., North Vancouver, 3,050 cu.yd. washed sand and gravel $1.90; to Champion & White, Main St., 700 cu.yd. pump sand $2; and to Vancouver Eng. Wks., 6th Ave. 40 c.i. manhole covers $14.20 each. Engrs. est. $42,460.

Waste Disposal

Proposed Work

N. J., West Englewood — Bd. Council West Englewood & Teaneck Twps., plans incinerator. $80,000. Private plans.

Contracts Awarded

N. J., New Brunswick — For 1 story, 50 x 80 ft., brick and concrete incinerator, 80 tons capacity every 8 hrs., to Nye Odorless Crematory Co., Georgia Life Bldg., Macon, Ga., $106,460. Noted Aug. 11.

Bridges

Proposed Work

Mass., Lawrence—Boston & Maine R.R., W. J. Backes, ch. engr., Boston, made plans steel and rein.-con. bridge over railroad tracks, on Salem St., in South Lawrence; and rebuilding steel rein.-con. bridge, on South Union St., here. $50,000 or more.

New Jersey — Bd. Freeholders Passaic Co. (Paterson), and Bergen Co. (Hackensack) plan bridge, on 2nd St. between Passaic and Wallington. $25,000. W. Beswick, Garfield, chn.

Pa., Pittsburgh—Dept. Pub. Wks. making plans reconstructing Viaduct 2, also constructing Viaduct 3, incl. ramps and appurtenances on Blvd. of Allies. $550,000. Dept. Pub. Wks., City County Bldg., engr.

La., New Orleans—Commission Council takes bids about Oct. 15, 2 span 56 ft. rein.-con. bridge over 17th St. Canal, on South Claiborne Ave. B. Vallas, City Hall, engr.

O., Cleveland—Cleveland Union Terminal Co. Ulmer Bldg., soon lets contract 600 ft. rein.-con., concrete and steel bridge, 60 ft., on Bway.; also 3,000 ft. concrete and steel bridge, 60 ft. over Eagle Ave. H. D. Jouett, Ulmer Bldg., engr.

O., Woodsfield — Monroe Co. soon takes bids bridge in Salem Twp. $35,348.

Ark., Dardenelle—State Hy. Comn., Little Rock, rejected bids Aug. 30, steel and rein.-con. bridge over Arkansas River, on Federal Aid Project 244-A, here, for State Hy. Dept., Little Rock, Yell Co. (Dardenell) and Pope Co. (Russellville). Will readvertise. Noted Aug. 25.

Texas — A. C. McFarlane, Galveston, making preliminary plans 1,000 ft. open span steel and concrete bridge, 20 ft., connecting Galveston Island and Port Bolivar. $300,000. J. W. Billingsley, Interstate Bldg., New Orleans, La., engr.

Okla., Eufaula — McIntosh Co. making preliminary plans 3 span 400 ft. steel truss bridge on piers over Canadian River. $125,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Okla., Sparks—State Hy. Dept., Oklahoma City, made preliminary plans 3 span 300 ft. steel truss bridge on piers over Deep Fork Creek, Lincoln Co., near here. $60,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Wash., Mt. Vernon—Comrs. Skagit Co. take bids about Sept. 29, replacing timber bridge with 240 ft. steel span, etc., over Skagit River, near here, $40,000. E. L. Knapp, Mt. Vernon, engr.

Wash., Seattle—Plans 1,700 ft. rein.-con. bridge, 35 ft. over West Water Way, $677,000; also timber bridge, on Lawton Way between 15th and 20th Aves., $105,000. W. C. Morse, city engr.

Bids Desired

Mass., Cambridge (Boston P. O.)—Sept. 19, by City. concrete bridge over Broad Canal. $25,000. L. H. Hastings, city engr.

Virginia—See "Streets and Roads."

Alabama—See "Streets and Roads."

Georgia and South Carolina—Sept. 20, by State Hy. Dept., East Point, Ga., and State Hy. Dept., Columbia S. C., 3 fixed steel span bridge across Savannah River, on Greenwood and Anderson Rd., at Fureys Ferry 15 mi. above Augusta. W. F. Tompkins, Maj. Corps. of Engineers, Post Office Bldg., Savannah, dist. engr.

La., New Orleans—Oct. 4, at office Dept. Pub. Finances, Purchasing Div., City Hall, superstructure electrically operated plate girder swing bridge across New Basin Canal, at South Claiborne Ave., adv. E. N.-R. Sept. 15.

Tennessee — Sept. 23, by State Dept. Highways & Pub. Wks., Nashville, one 100 ft. steel, one 40 ft. and one hundred 26 ft. concrete girder span bridge, incl. 777,000 lb. deformed steel bars, 144,500 lb. fabricated structural steel, 30,357 ft. concrete piles, etc. over Obion River, on Obion-Trimble Rd., State Highway 3, Obion Co. C. N. Bass, highway comr.

Ind., Indianapolis—Sept. 16, by Bd. Comns.Marion Co. Bridge 835 over Eagle Creek, on Wall St. Pike, Wayne Twp., $34,406, Bridge 836, on Glens Valley Rd. at Shannons Lake, on Wall St. Pike, Perry Twp., $2,998. H. Dunn, aud.

Illinois—Sept. 21, by State Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, two 35 ft. spans rein.-con. girder bridges on Route 7, Sect. 4-BL, Henry Co.; one 50 ft. and two 30 ft. spans rein.-con. girder bridge, also two 100 ft. and one 150 ft. rein.-con. substructure on Route 10, Sect. 36-B, two 100 ft. and one 150 ft. span steel superstructure on Route 10, Sect. 36-C, all Vermillion Co.; 28 ft. span rein.-con. slab bridge also 30 ft. and 77 ft. rein.-con. bridge on Routes 122 and 123-B, Mason Co.; 35 ft. and two 40 ft. span rein.-con. girder bridges on Route 126 and 116-B, Montgomery Co.; two 24 ft. and 28 ft. span rein.-con. slab, two 35 ft. and two 45 ft. span rein.-con. girder bridges on Routes 142, 115-B, and 116-B, all Hamilton Co.; 35 ft. rein.-con. girder bridge and 100 ft. rein.-con. substructure on Route 142, Sect. 124-B, and 100 ft. steel superstructure, on Route 142, Sect. 124-C, both Saline Co.; four 35 ft. and three 24 ft. span rein.-con. slab and girder bridges, on Route 64, Sects. 130 and 131-B, Du Page Co. F. T. Sheets, Highway engr.

Iowa — Sept. 20, by State Hy. Comn., Ames **(F.A.P. means Federal Aid Project and B.P. Bridge Project)** 80 x 20 ft. pony truss bridge on B.P. 153, Greene Co.; 40 x 20 ft. I-beam bridge and 16 x 24 ft. I-beam bridge with wood structures, and 60 x 20 ft. pony truss bridge and 6 culverts on F.A.P. 14, Harrison Co.; 80 x 20 ft. pony truss bridge with two 40 x 20 ft. I-beam approaches on B.P. 103, Howard Co.; 130 x 20 ft. high truss bridge with two 40 x 20 ft. I-beam approaches on F.A.P. 230, Linn Co.; 40 x 20 ft. I-beam bridge with two 32 x 24 ft. I-beam approaches; one 40 x 20 ft. skew I-beam bridge with 5 ft. sidewalks, 50 x 20 ft. pony truss bridge addition, two 32 x 24 ft. I-beam bridges, three 32 x 24 ft. I-beam bridges, and 160 x 20 ft. high truss bridge with six 40 x 20 ft. I-beam approaches and 2 culverts, on F.A.P. 276 and 303. Tama Co.; 45 Culverts and extensions on B.P. 538 and F.A.P. 212, Franklin Co.; also 35 culverts on F.A.P. 20, Monroe Co. R. E. White, highway comr.

Kan., Eureka—See "Streets and Roads."

Nebraska—See "Streets and Roads."

Ark., Dardanelle—Sept. 29, by State Hy. Comn., Little Rock, 2,045 ft. steel and concrete bridge over Arkansas River, on Federal Aid Project 244-A, Pope and Yell Counties, here. D. H. Blackwood, chn.; adv. E. N.-R. Sept. 15.

Texas—Washington Co. (Brenham) and Waller Co. (Hempstead) taking bids steel and concrete bridge across Brazos River, on Highway 20 between Washington and Waller Counties. $315,000. Address State Hy. Dept., Austin, or S. A. Bracher, co. engr. Washington Co.

Tex., San Antonio—Sept. 30, by City Engineering Dept., 1 span, 90 ft., rein.-con. bridge across San Antonio River, on Martin St. $35,000. I. Ewing, city engr.

Calif., Hanford — E. F. Pickerill, clk. Kinks Co., taking bids 360 ft. cresoted piling and treated timber bridge over Kings River. R. May, Hanford, co. surv.

Contracts Awarded

Mass., Springfield — Bd. Water Comrs., 32,740 lin.ft. 48 and 54 in. pipe line from Provin Mountain Reservoir to Springfield, Contr. 8, to D. O'Connell's Sons, Inc., Holyoke, $536,810; and river crossing, Contr. 9, to Merritt, Chapman & Scott Corp., 17 Battery Pl., New York City. $346,375.

Connecticut—J. A. Macdonald, Highway Comr., Hartford, one 60 ft. span steel and concrete bridge over Nonewang River, in Woodbury, to L. E. McLaughlin, Inc., 217 Jefferson Ave., New London, $28,102; concrete bridge over Rooster River at Fairfield, to J. Mariani, 106 Hobart St., New Haven, $5,867; and Hollow bridge, 60 ft. span rigid frame, native stone approaches over Farmington River, at Hartland, to Miller Bros. Constr. Co., 151 Earl St., Hartford, $16,493. Grand total $50,462. Noted Aug. 11.

Constr. News page 131

Advantages of Independent Concrete Pipe Sewers

from the ENGINEER'S Point of View

Permanency and economy of concrete pipe sewers are proved by long and successful service.

Pipe built locally—
The special pipe plant becomes a "Home industry." Uses local labor and materials wherever possible. Benefits local business.

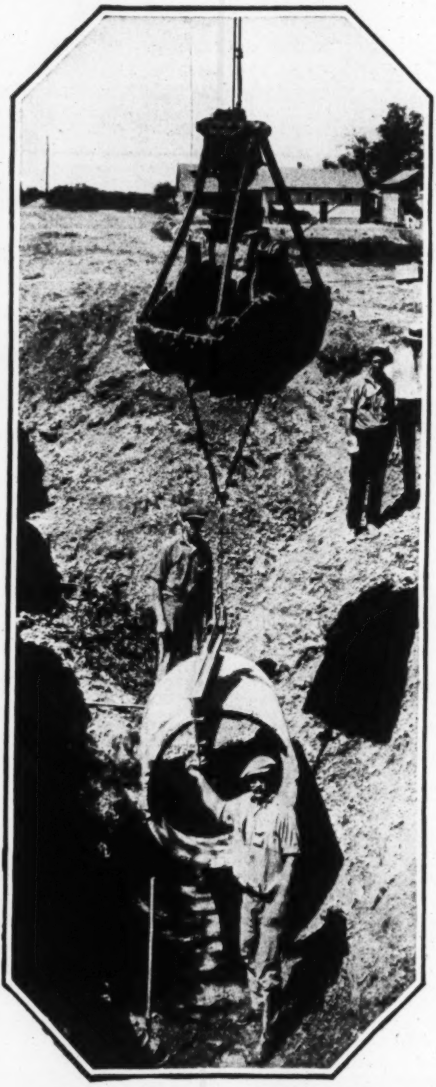
Inspection is facilitated—
Materials, workmanship and pipe units are tested and inspected at every stage of construction.

Pipe is low in cost—due to the economies of "Independent" advanced methods of manufacturing pipe.

Entire joint is visible for inspection, until trench is backfilled.

Completed sewer is strong, tight, permanent and efficient. Provides free flow and maximum capacity. Endures for generations, with little or no upkeep.

Let us send you engineering data.



Placing Independent Concrete Sewer Pipe at Lansing, Mich. One machine does the digging, laying and back-filling.

from the CONTRACTOR'S Point of View

Building the pipe locally—on the job or nearby, assures prompt delivery along the line of work, ready for the construction crew to lay.

"Recessed" Joints make the pipe easier to lay. Lower half of joint is sealed inside the sewer—upper half of joint is filled on top of pipe.

Pipe can be laid easily even where water, caving soil, or other difficult trench conditions are encountered.

Laying can follow excavating closely, and back-fill can be made immediately after pipe joints are sealed, if required. Often one machine can do the three operations.

Finished sewer means a profitable job, and a satisfied "customer."

Get our estimates on your sewer projects.

INDEPENDENT CONCRETE PIPE CO., 202 N. West St., Indianapolis, Indiana.

INDEPENDENT

Reinforced Concrete Pipe

Bridges (Continued)

N. Y., New Rochelle — Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, bridge over New Rochelle Park Creek, connecting Glen Island and New Rochelle mainland, here, to J. D. Walsh, 132 4th St., Long Island City, $111,955. Noted Aug. 11.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, Bridge Div., 162 ft. concrete encased steel bridge, 66 ft. over Phila. & Reading R.R. tracks, at Linden Ave., to Robbins Contg. Co., Inc., 1615 Summer St., $128,948. Noted Aug. 18.

Pa., Phila.—Dept. Pub. Wks., Bureau Engineering, Bridge Div., 65 x 96 ft. concrete encased steel bridge on rein.-con. abutments and pier over Chester Branch of Reading Co., on line of 61st St., to G. F. Dobbin, 1020 South 47th St., $174,344. Noted Sept. 1.

Va., Danville—City, C. B. Strange, aud., bridge over Dan River, on Main St., to Concrete Steel Bridge Co., Clarksburg, W. Va., $194,000.

Va., South Norfolk (Norfolk P. O.)—Norfolk-Portsmouth Bridge Corp., Park and Truxton Sts., Norfolk, C. M. Jordon, pres., substructure for Norfolk-Portsmouth Bridge, 1,000 ft. steel truss span with lift span, and 665 ft. rein.-con. trestle over southern branch Elizabeth River, here, to Hardaway Contg. Co., Columbus, Ga., $155,050; and superstructure, to Atlantic Bridge Co., Greensboro, N. C., $315,534. Noted June 16.

O., Cleveland—Cuyahoga Co., rein.-con. bridge over Ridge Rd., to M. S. Nelson, United Bank Bldg., $29,030. Noted Aug. 11.

Indiana—State Hy. Comn., Indianapolis, to D. Jenkins, 501 Gilbert Ave., Terra Haute, three bridges on Road 41, Contr. 145, Lake Co., $23,342; to Wrightsman & Gray, Mooreland, 2 bridges on Road 46, Contr. 156, Owen and Monroe Counties $8,806, and 1 bridge on Road 3, Route 146, Delaware Co. $6,073; to Yost Bros., Decatur 4 bridges on Road 3, Contr. 147, Allen Co. $27,509; to I. E. Smith Constr. Co., Richmond, 1 bridge on Road 27, Contr. 149, Wayne Co. $17,406, and 1 bridge on Road 27, Contr. 151, Jay Co. $15,064; to Clements & Doale, Williamsburg, 1 bridge on Road 29, Contr. 152, Clinton Co. $5,057; to E. F. Apple, Indianapolis, 2 bridges on Road 32, Contr. 153, Madison Co., $20,869; to Vincennes Bridge Co., Vincennes, 1 bridge on Road 39, Contr. 154, Clinton Co. $9,677, 3 bridges on Road 67, Contr. 161, Morgan Co. $16,499, and 1 bridge on Road 46, Contr. 157, Brown Co. $15,740; to Davis Constr. Co., Tipton, 3 bridges on Road 41, Contr. 155, Newton Co. $28,944; and to Ryan & Ryan, Washington, 2 bridges on Road 56. Contr. 159, Washington Co., $17,239. Grand total $212,225.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, to A. O. McCoy, Illinois, bridge on Route 10, Sect. 16-B, Sangamon Co. $13,525, to Chernus Constr. Co., Sioux City, Ia., three 38 ft. span concrete girder bridge on Route 49, Sect. 135-B, Iroquois Co. $16,735, 31 ft. and 50 ft. span concrete girder bridge, and 20 ft. concrete slab bridge on same road, Sect. 136-B $15,744, also 22 ft. and 28 ft. span concrete slab bridge and 40 ft. concrete girder bridge, on Route 182, Sect. 101-B, Marion Co. $20,745, to Stephen Bros., 612 Endicott Bldg., St. Paul, Minn., 55 ft. span concrete girder bridge on Route 72, Sect. 113-B, Carroll Co., $11,045, to M. R. Deyo Mfg. & Constr. Co., 801 West Washington St. E., Peoria, 30 ft. concrete girder bridge and 24 ft. span concrete slab bridge, on Route 78, Sect. 134-B, Fulton Co., $32,050, to G. C. Fairclo, Champaign, four 50 ft. span concrete girder bridge on Route 89, Sect. 115-B, Bureau Co., $22,395; to Zimmerly Bridge Co., Pairs, three 40 ft. span concrete girder bridge and 28 ft. span concrete slab bridge, on Route 142-A, Sect. 101-B, Wayne Co., $17,610; to Herrick Constr. Co., Carlinville, three 45 ft. span concrete girder bridge and concrete substructure for two 170 ft. steel and two 59 ft. girder approach spans on Route 148, Sect. 129-B, Williamson and Franklin Counties, $29,683; to Stupp Bros. Bridge & Iron Co., Syndicate Trust Bldg., St. Louis, Mo., steel superstructure for two 170 ft. steel spans on Route 148, Sect. 129-C, Williamson and Franklin Counties, $6,239; to J. P. Lyon, Robinson, one 62 ft. span steel plate girder bridge with two 34 ft. concrete girder approach spans, on Route 12 Sect. 7-V, Clay Co., $23,736. Grand total $209,507.

Kan., Cordell—Rooks Co. (br. Stockton), two 50 ft. steel truss, one 40 deck girder and five 8 ft. multi box span bridges on Project 55-A, near here to Kelly & Johnson Constr. Co., Talmo, $17,596. Noted Aug. 4, under "Stockton."

Nebraska—See "Streets and Roads."

Mo., St. Louis—J. R. Scott, Jr., and T. J. Scott, Merchants Laclede Bldg., sub-structure 5,200 ft. rein.-con. and steel bridge, 40 ft. over Mississippi River, at Chain of Rocks Waterworks Station, to Union Bridge & Constr. Co., 903 Sharp Bldg., Kansas City; and superstructure for same, to Amer. Bridge Co., 1519 Liberty Central Bldg. Engrs. est. $2,500,000. Noted May 12.

Arkansas—State Hy. Comn., Little Rock, 175 ft. rein.-con. bridges and approaches over Mill Creek, Scott Co., and 226 ft. bridge over Fort Smith Rd. to O'Hagan McVicker Co., Kansas City, Mo., $32,948 and $31,683 respectively; bridge, grading, etc. on Thornton-Hampton, Rd., to D. H. Hoard, Little Rock, $42,277; and 200 ft. rein.-con. and steel bridge over St. Francis River, at Marked Tree, to Williams & Williams, Batesville, $111,645. Grand total $218,553.

Arkansas—State Hy. Comn., Little Rock, 4,200 lin.ft., rein.-con. trestles on Harahan Viaduct, Federal Aid Project 300-A, Crittenden Co., to Fuller Constr. Co., Little Rock, $450,339. Noted Aug 11.

Calif., Los Angeles — Bridge over Los Angeles River, on 4th St., to T. Kelly & Sons, 815 South Hill St., $206,755.

Dams

Proposed Work

Tex., Remount (mail Waco) — Marland Oil Co., Big Lake, making surveys dam across White Rock Creek, diverting 20,000 acre ft. water annually from junction of Brazos and Bosque Rivers, etc., McLennan Co., near here. $150,000. Private plans.

Calif., Los Angeles — City and Los Angeles Flood Control Dist., plan dam in Tujunga Canyon. City appropriates $3,000,000 and District $1,600,000 toward cost.

Que., Ste Julienne—Gatineau Power Co., 180 St. James St., Montreal, soon takes bids developing Magnan Falls on Quareau River, incl. dams, powerhouse, etc. $1,500,000.

Bids Received

Wash., Seattle—Bd. Pub. Wks., County-City Bldg., Sept. 9, constructing Diablo Dam, concrete arch type, on Skagit River, Whatcom Co., from Winston Bros., 801 Globe Bldg., Minneapolis, Minn., $2,546,338; from A. M. Guthrie & Co., Ry. Exch. Bldg., $2,770,830; and from Puget Sound Bridge & Dredging Co., 903 Sharp Bldg., $2,940,400. Noted Aug. 11.

Railways

Proposed Work

Michigan — Dept. Street. Railways, St. Jean and Shoemaker Aves., Detroit, D. A. Smith, genl. mgr., making plans extending 1 mi. double track on Livernois Ave. from Davison to Fenkell Aves., also 1 mi. on Fenkell Ave. from Livernois to Wyoming Aves., in Detroit. $140,000. Private plans.

Texas — Clinton & Oklahoma Western R.R. Co., c/o F. Kell, pres., Wichita Falls, making surveys 94 mi. railway from state boundary in Hemphill Co. to Pampa in Gray Co. $3,000,000. Private plans.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

La., New Orleans — Orleans Levee Bd., New Court House, made preliminary plans straightening out and raising St. Andrew St. Levee, Orleans Co. $50,000. R. B. Kohnke, New Court House, engr.

Ark., Atkins—Pope Co. Levee Dist., E. A. Williams, atty., soon takes bids repairing 1½ mi. breaks in levee, 80,000 cu.yd. excav., etc. $40,000. E. Hale, Natl. Bank Bldg., Pine Bluff, engr.

Ark., Dardanelle—Carden Bottoms Levee Dist., D. C. Love, pres., soon takes bids rebuilding Caden Bottoms Levee, $60,000. E. Hale, Natl. Bank Bldg., Pine Bluff, engr.

Tex., Houston — See "Buildings — Industrial."

Tex., Pryor—City, c/o W. R. Terpering, secy., and Fort Bend Co., making preliminary plans irrigating approximately 10,000 acres land. $100,000. Terrell Bartlett Engineers, Calcasieu Bldg., San Antonio, engrs.

Tex., Weslaco—See "Unclassified."

Bids Desired

Mass., Boston—Sept. 23, at office. Metropolitan Dist. Water Supply Comn., 24 School St., clearing approximately 30 acres and excavating 20,000 cu.yd. for 1 mi. open channel, in Hopkinton. F. E. Winsor, ch. engr. comn.

New York—Sept. 23, by M. Cosgrove, comr. Docks, Pier "A", foot of Battery Pl., New York City, dredging in Manhattan and Brooklyn Boros.

Miss., Greenwood — Sept. 26, by Comrs. Big Sand D. D. of Le Flore and Carroll Counties, c/o E. L. and H. C. Mounger, attys., Greenwood, 42,000 cu.yd. fill from canal, 10,000 cu.yd. levee repairs, 300 ft. ditch excav., etc.

Mo., Bloomfield—Sept. 20, by S. Wilson, engr. D.D.5, Stoddard Co., removing, etc. 173,803 cu.yd. earth from main ditch D.D.5.

Calif., Tracy—See "Contracts Awarded."

Que., Riviere du Loup—Sept. 16, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., reconstructing and repairing wharf, here. $20,000.

Que., Roberval—Sept. 22, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., reconstructing breakwater, here. $15,000.

Contracts Awarded

Mass., Marlboro — Sisters of St. Anne Academy, Broad St., grading and two 185 ft. concrete retaining walls, 12 ft. high, and two 300 ft. walls, 10 ft. high, Broad St., to T. Fahey, 16 South St.

Mass., Medford (br. Boston)—For 360 ft. rein.-con., retaining wall, Fulton St., to T. Mulcare, Inc., 64 Western Ave., Brighton.

Louisiana—Bd. State Engineers, New Orleans Court Bldg., New Orleans, to W. A. Marcotte, Moreauville, levee work, at Coco Point, Line A, $3,889; to Clopton & Rushing, Melville, at Norman $5,464, and Bowden $5,272; to Picard Constr. Co., Hicks Bldg., New Orleans, Firmont $738, Catholic Church $4,920, Bennett $16,875 and Zimmer $3,444; to E. E. Rabalais, Bunkie, Marshall $10,000 and St. Romain $2,375; to G. Hoggsett, Mansura, Ellis Coco $560 Cain $3,900; to H. J. Mayeaux, Moreauville, Willard Coco $510, all above on bank Bayou $3,600, Tilden School House $490, and Barre des Glaizes in Avoyelles Parish. Grand total $61,477.

Ill., Lockport—Clerk Sanitary District of Chicago, 910 South Michigan Ave., Main Channel Wall, near here, Contr. 3, to Green & Sons Co., 6 North Michigan Ave., Chicago, $769,500. Noted Aug. 4.

Calif., Tracy—Banta-Carbona Irrigation Dist. will line canal by district forces.

N. S., La Have — Dept. Pub. Wks., Ottawa, Ont., dredging Areas 1 and 2, Le Have River, here, to Beacon Dredging Co. Ltd., Halifax, $66,600.

N. B., Escuminac—S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, new breakwater, here, to K. McLaggan & Co., Devon, $48,000. Noted July 21.

Que., Varennes — S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, dredging channel and basin, here, to Les Chantiers Masseau, Sorel, $48,700.

Ontario — Dept. Pub. Wks., Ottawa, repairing harbor at Saugeen River, to R. M. Hunter, Kincardine, $32,000.

B. C., Victoria—Dept. Pub. Wks., Ottawa, Ont., dredging channel at Hospital Rock, here, to North Western Dredging Co. Ltd., Vancouver, $35,028.

Streets and Roads

Bids Desired

Massachusetts—Sept. 20, by Dept. Pub. Wks., Boston, W. F. Williams, comr., grading and bituminous macadam paving 8,150 ft. highway in Agawam.

Mass., Boston—Sept. 19, by Dept. Pub. Wks., J. H. Sullivan, comr., sheet asphalt or bitulithic paving various streets in Wards 11, 14, 15 and 18. $25,000.

Mass., Framingham — See "Contracts Awarded."

Rhode Island—Sept. 21, by State Bd. Pub. Roads, State House, Providence, bituminous macadam paving (penetration method) approximately, 2.697 mi. Federal Aid Project 39, Contr. 2708, and rein.-con.

INDUSTRIAL

NOT MERELY A MACHINE

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STILL another customer writes that in addition to paying for itself in a short time, his Industrial is earning over $100.00 a day.

Wouldn't you be enthusiastic about your machine if it showed a profit at the end of each day of $100.00 or more?

Surely sturdy construction, ease of operation and speed contributed heavily to the profit making qualities of the Industrial on this work.

You may not be able to show such startling results on all your work, but an Industrial will do more work, with less maintenance and show a profit where there's one to be had.

Write for circular or let our representative point out some of the major features of the Industrial. Which will it be?

INDUSTRIAL WORKS, BAY CITY, MICHIGAN

Atlanta, Ga. Hurt Bldg.
Chicago, Ill. McCormick Bldg.
Cincinnati, Ohio Dixie Terminal Bldg.
Detroit, Mich. Book Building
New Orleans, Louisiana Whitney Central Bldg.
New York City 50 Church St.
Philadelphia, Pa. Packard Building
Pittsburgh, Pennsylvania Federal Reserve Building
San Francisco, Calif. Monadnock Building
St. Louis, Mo. Railway Exchange Bldg.

Streets and Roads (Continued)

paving approximately 3.531 mi. Federal Aid Project 31, Contr. 2711.

Rhode Island — Sept. 21, by State Bd. Pub. Wks., Providence, grading and bituminous macadam paving highway in North Smithfield and Cumberland. To exceed $25,000. Noted June 23.

N. Y., Long Island City—Sept. 19, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and sidewalks on 74th, 137th, 49th (19th Ave.) and 59th (Holmes Ave.) Sts.; also sidewalks, etc. on 47th and 48th Aves.

N. Y., Long Island City—Sept. 21, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, etc. Catalpa Ave., Fremont and Woodward (Ave.) Sts.; grading and sheet asphalt on concrete repaving Woodside Ave., etc.

N. Y., St. George — Sept. 21, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and bituminous concrete paving Watchogue Rd. from Jewett to Wolly Aves.

N. J., Hammonton—Sept. 26, at Town Hall, W. R. Seely, town clk., concrete curbing and sidewalks on various streets. J. A. Baker, town engr.; adv. E. N.-R. Sept. 15.

Pa., Swissvale—Sept. 20, by Boro at office H. D. Caldwell, secy., improving February, Way, Milligan and Patterson Aves., 3,950 cu. yd. earth excav., 3,813 sq.yd. brick on 6 in. concrete paving, etc. A. Hutchinson, boro engr.

Maryland — Sept. 20, by State Roads Comn., Baltimore, concrete paving 1.33 mi. Contr. M-91, Montgomery Co.; amiesite paving 0.91 mi. Contr. S-4-A, Somerset Co. J. N. Mackall, chn.

Maryland — Sept. 20, by State Roads Comn., Baltimore, concrete paving 1.4 mi. Contr. M-82, Montgomery Co., and 1 mi. Contr. Q-41, Queen Anne Co.; also graveling 2 mi. Contr. SM-40, St. Marys Co. J. N. Mackall, chn.; adv. E. N.-R. Sept. 15.

Md., Baltimore—Sept. 21, by Bd. Awards, curbing and sheet asphalt paving 5,870 sq.yd. Contr. 434; and concrete paving 6,200 sq.yd. Contr. 435. N. L. Smith, City Hall, acting highways engr.

Virginia—Sept. 27, by State Hy. Comn., Richmond, grading, bridging, surfacing, etc. Projects S-208-B, S-297-A, S-424-A, S-464-C and D, S-468, S-511 and S-512.

W. Va., Clarksburg—Sept. 22, by Harrison Co. Court, Bermudez hot mixed macadam surfacing 1.5 mi. Brushy Fork Rd., Simpson Dist., 2 mi. Marshville Rd., and 1 mi. Salem Rd., both Tenmile Dist. M. L. Loudin, co. clk.

W. Va., Harrisville—Oct. 4, by Ritchie Co. Court, clearing right-of-way, grading, etc. 2.16 mi. Pennsboro-Pullman-White Oak Rd., D. W. Shock, co. road engr.

W. Va., Wayne—Sept. 19, by Wayne Co. Court constructing 1.5 mi. Twelve Pole Creek Rd., 1 mi. Dock Creek Rd., both 22 ft., Cerodo Dist. H. Wiles, co. road engr.

Illinois—Sept. 21, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete, vitr. brick or bituminous concrete surfacing 8.65 mi. Route 122, Sect. 123, and 1.64 mi. Route 122, Sect. 124, both Mason Co. 5.99 mi. Route 126, Sect. 116 Montgomery Co., 5.57 mi. Route 130, Sect. 122 Jasper and Richland Counties, 5.39 mi. Route 142, Sect. 124 Saline Co., 3.68 mi. Route 148, Sect. 130 Williamson Co., 2.7 mi. Route 160, Sect. 135 Madison Co., and 0.71 mi. Route 78, Sect. 135 Fulton Co., grading 1.26 mi. Route 10, Sect. 36-A Vermilion Co., 1.26 mi. Route 10, Sect. 20-A, Pike and Scott Counties, 6.97 mi. Route 142, Sect. 115-A and 6.5 mi. Route 142, Sect. 116-A, both Hamilton Co., 0.85 mi. Route 142, Sect. 124-A Saline Co. F. T. Sheets, highway engr.

S. C., Lancaster—Sept. 28, by City, curbing, guttering, paving, etc. 103,000 sq.yd. various streets. H. S. Jaudon Eng. Co., Elberton, Ga., engrs.

Florida—Sept. 20, by State Roads Dept., F. A. Hathaway, chn., Tallahassee, surface treating on 8 in. Florida Lime rock paving, Project 659, Road 3, Clay Co.; clearing, grubbing and grading 8.83 mi. Project 722, Road 43, Jefferson Co.; and 110 ft. creosoted timber overpass, on Project 717, Road 28, Bradford Co. J. L. Cresap, highway engr.

Alabama — Oct. 5, by State Hy. Dept., Montgomery, concrete paving 2.44 mi. roadway from Ft. Deposit to Butler Co. line toward Greenville; paving and graveling 18.09 mi. roadway between Tuscaloosa and Eutaw, Tuscaloosa and Green Counties; chert surfacing 9.913 mi. roadway between Bessemer and Tuscaloosa Co. line towards Tuscaloosa, Jefferson Co.; gravel surfacing 17.15 mi. roadway between Brewton and Perdido Station Escambia Co., 12.25 mi. roadway between Perdido Station and Bay Miniette, Baldwin Co., 17,865 mi. roadway between Belleville and Monroeville, Conecuh and Monroe Counties; also bridges, etc. on roadway between Marion and Greensboro, Perry and Hale Counties. W. Finnell, hy. dir.

Ala., Birmingham — Oct. 10, by City Comn., grading, curbing, guttering, walks and 2 in. bitulithic on 6 in. concrete paving 5 blocks Finley Ave., 24 ft., $31,300; also grading and 2 in. bitulithic on 6 in. concrete paving 4 blocks same avenue, 30 ft., $27,675. A. J. Hawkins, city engr.

Louisiana—Sept. 28, by State Hy. Comn., Baton Rouge, graveling 11.439 mi. Winnsboro-St. Joseph Highway, Federal Aid Project 180-B, Franklin Parish; and 14.074 mi. Alexanderia-Leesville Highway, Federal Aid Project 157-B, Rapides Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Louisiana—Sept. 29, by State Hy. Comn., Baton Rouge, grading, graveling and broken stone paving 13.942 mi. Winfield-Olla Highway, Federal Aid Project 177-A, Winn Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Kentucky—Sept. 23, by State Hy. Dept., Frankfort, **(S.P. means State Project)**, surfacing 4 mi. Middleboro-Pruden Rd., S.P. 5-F Bell Co., 3.07 mi. Pineville-Clear Creek Springs Rd., S.P. 112-A Bell Co., 14.2 mi. Salyersville-Paintsville Rd., S.P. 34-D, Magoffin and Johnson Counties; grading, etc. 4 mi. Greenup-Fullerton Rd., S.P. 106-B Greenup Co., 4.5 mi. same road, Sect. C, and 13.106 mi. London-Manchester Rd., S.P. 28-A Laurel Co. E. N. Todd, highway engr.

O., Cincinnati—Sept. 23 (extended date), by Comrs. Hamilton Co., grading, guttering and concrete repaving, etc. 55,800 sq.yd. Cleves and Warsaw Rd. $406,345. E. A. Gast, Court House, engr. Noted Aug. 25.

O., Hamilton—Sept. 20, by E. E. Roll, clk. Butler Co., surface treating 63,304 ft. Millikin, D and Wood Sts., etc., in St. Clair Twp., 16-20 ft. $62,500. W. Willard, Court House, engr.

Ind., Terra Haute — Sept. 19, by Bd. Comrs. Vigo Co., grading, etc. Harve D. Holdaway et al., Rd., Fayette Twp., $17,372; and William Dorman et al., Rd., Sugar Creek Twp., $45,094. J. Dreher, aud.

Iowa—Sept. 20, by State Hy. Comn., Ames **(F.A.P. means Federal Aid Project, and P.P. Primary Project)**, grading, paving, etc., 95,764 sq.yd. F.A.P. 251, Benton Co., 21 flume basins 16 intakes, etc., 16,560 sq. yd. F.A.P. 34, Keokuk Co., 10 flumes and 2 intakes, etc., 117,062 sq.yd. P.P. 489, Keokuk Co., 29 intakes, 23 flumes, etc., 89,647 sq.yd. F.A.P. 20, Monroe Co., 24 intakes, 15 flumes, etc., 189,401 sq.yd P.P. 545, O'Brien Co., 2 intakes, 5 flumes, etc., 8,002 sq.yd. F.A.P. 71, and 152,249 sq.yd. P.P. 544-A, both Washington Co., 17 flumes, 28 intakes, etc., 71,129 sq.yd. P.P. 451, Cedar, Scott and Muscatine Counties, 2 flumes, etc., grading 72,198 cu.yd. F.A.P. F-14, Harrison Co., and 231,716 cu.yd. P.P. 303, Tama Co.; 12,200 cu.yd. bridge fills in Sioux Co.; graveling 4,520 cu.yd. F.A.P. 261-B Poweshiek Co., and 18,339 cu.yd. P.P. 519, Warren Co. R. E. White, highway comr.

Ia., Cedar Rapids — Sept. 19, by L. J. Storey, City Hall, grading and 7 in. concrete, asphaltic concrete, sheet asphalt, warrenite bitulithic or brick paving 10,183 sq.yd. Blake Blvd. R. W. Gearhart, City Hall, engr.

Michigan—Sept. 20, at office Houghton Co. Rd. Comn., Hancock, bituminous macadam surfacing 9.694 mi. State Trunk Line Rd. MO31-19, Contr. 1; and 2.523 mi. MO-31-18, Contr. 1, both 18 ft. for State Hy. Dept., Lansing. G. D. Tramp, Crystal Falls, resident engr.

Michigan—Sept. 21, by E. R. Benkert, resident engr., Port Huron, concrete paving 3.564 mi. Trunk Line Rd. 77-14, Contr. 1, St. Clair Co., 20 ft. for State Hy. Dept., Lansing.

Michigan — Sept. 22, at office Village Clerk, Verona, widening and concrete paving 0.588 mi. State Trunk Line Rd. MO-76-15, Contr. 1, Shiawassee Co., 20 ft., for State Hy. Dept., Lansing. R. W. Roberts, Saginaw, resident engr.

Michigan — Sept. 22, by C. L. Cowgill, resident engr., Plymouth, concrete paving 4.766 mi. State T. L. Rd. MO63-5, Contr. 2, Oakland Co., 20 ft., for State Hy. Dept., Lansing.

Michigan — Sept. 27, by H. C. Fleming, resident engr., Grand Rapids, two course graveling 5.982 mi. State Assessment Dist. Rd. 476, Montcalm and Ionia Counties, 9 ft., for State Hy. Dept., Lansing.

Kan., Eureka—Sept. 27, by Clerk Greenwood Co., grading, etc. 6.609 mi. Project 71, 28 ft. E. Christian, Eureka co. engr.

Kan., Eureka—Sept. 27, by W. D. Barrier, clk., Greenwood Co., grading, etc., 6.609 mi. Federal Aid Project 393-A, 28 ft., also constructing bridge 6 mi. from here, 53,670 lb. reinforcing, etc. E. Christian, Court House, engr. Noted June 30.

Kan., Great Bend—Oct. 11, by clerk Barton Co., grading, sand clay surfacing, etc., 13.555 mi. Federal Aid Project 383-A, 28 ft. L. L. Petticord, Court House, engr.

Nebraska—Sept. 22, by Dept. Pub. Wks., Lincoln, improving 14 mi. Project 97-C, Pawnee Co., 198,500 cu. yd. earth excav. and 132,400 cu. yd. overhaul; 8.9 mi. Project 246-C, Richardson Co., 200,000 cu. yd. sta. overhaul, 140,800 cu. yd. earth and 8,600 cu. yd. solid rock excav.; 10.6 mi. Project 254-A, Red Willow Co., 131,500 sq. yd. 3 in. sand and gravel, etc. and 5.5 mi. Project 245-B, Frontier Co., 68,900 sq. yd. sand and gravel, etc.; also constructing one 24 ft. I-beam bridge on Project 118-B, Jefferson Co. R. L. Cochran, state engr.

Tex., San Benito—Taking bids and open same about Sept. 24, alternate types paving 30 blocks business streets, 40- to 60-ft. $70,000.

Tex., San Antonio—Sept. 26, by Comrs. Bexar Co., asphalt surfacing 25 mi. South Flores, Mayfield, Quitana, and Culebra Rds., 18 ft., $30,000; 40 mi. Blanco, Moeglen, Vance-Jackson and Jackson-Keller Rds., $45,000; also 22 mi. Keller and Isom Rds., Woodlawn Cincinnati and San Pedro Aves., 18 ft. $25,000. G. H. Collins, San Antonio, co. engr.

Okla., Bartlesville — Sept. 19, by E. Sanderson, city clk., grading, curbing and 6 in. concrete paving 10,340 sq.yd. various streets. $32,000. E. D. Kirkpatrick, Bartlesville, engr.

Okla., Edmond—Sept. 19, by City Clerk, grading, curbing, guttering and graveling 17,200 sq.yd. Jackson Blvd. $37,375. F. H. Peckham, 227½ West Grand St., Oklahoma City, engr.

Okla., Prague—Sept. 23, by Newhouse, city clk., grading and 7 in. concrete paving 8,200 sq.yd. 11th and Main Sts. $26,010; Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Colorado—Sept. 22, by State Hy. Dept., Denver, grading, asphalt or concrete paving 1.959 mi. Federal Aid Project 2-R, Constr. Div. 5, Las Animas Co., L. D. Blauvelt, State Office Bldg., Denver, engr.

Nevada—Sept. 21, by Dept. Pub. Wks., Carson City, grading, etc. 9.46 mi. Route 3, Sect. D, Ormsby and Douglas Counties. S. C. Durkee, highway engr.

Wash., Kelso—Sept. 27, by Comrs. Cowlitz Co., grading, graveling, and constructing 140 ft. steel span bridge on Permanent Highway 13. F. C. Cramer, Kelso, engr.

Calif., Gridley — J. L. Lewis, city clk., taking bids grading and 1½ in. warrenite bitulithic 2½ in. asphaltic concrete paving 220,000 sq.ft. Washington St., etc. M. C. Polk, Chico, engr. Noted May 19.

Calif., Los Angeles—Sept. 26, by Supervs. Los Angeles Co., grading and concrete paving 4.56 mi. Riverside-Redondo Blvd. G. W. Jones, Hall of Records, engr.

Contracts Awarded

Mass., Boston — Granite block paving Longwood Ave., to B. E. Grant Co., 100 Floyd St., Roxbury, engrs. est. $25,000; sheet asphalt paving Columbus Ave., Wards 4 and 9, and Harrison Ave., Ward 8, to M. F. Gaddis, 6 Beacon St. $62,453, and Washington St., Wards 3, 8 and 9, to J. C. Coleman & Sons, 1620 Tremont St., Roxbury, $85,675.

Mass., Framingham—City will construct concrete paving 1,500 ft. Waverly St., by day labor. $30,000. S. Dyer, City Hall, engr.

Mass., Medford (br. Boston) — Mayor's Office, sheet asphalt paving various streets, to J. A. Gaffey, 19 James St., $51,377.

Mass., Medford (br. Boston)—Warrenite bithulithic resurfacing 2,200 sq.yd. Boston Ave., and 1,800 sq.yd. Warner St., to Coleman Bros., Inc., 245 State St., Boston. Noted Aug. 4.

Connecticut—J. A. Macdonald, highway comr., Hartford, macadam paving 6 mi. highway in Mansfield and Willington, and 8 in. waterbound macadam paving 14,350 ft. highway in New Milford and Sherman, also 5 mi. in Ashford and Easton, to Miller Bros. Constr. Co., 151 Earl St., Hartford, $449,239 and $95,281 respectively; 8 in. rein.-con. paving 6,587 ft. in Stonington, to N. Benvenuti, 74 Goshen St., New London, $74,705; 9 in. rein.-con. paving 7,026 ft. in Fairfield, to Osborne-Barnes Co., Odd Fellows Bldg., Danbury, $92,238; 8 in. waterbound macadam paving 10,090 ft. in Sherman, to J. De Micheli & Bros., 58 High St., Torrington, $95,969; 3 in. asphalt paving, etc., 6,000 ft. in West Hartford, to E. Balf Co., 173 State St., Hartford, $38,556; 3 in. bituminous macadam paving 16,900 ft. in South Windsor, and 3 in. waterbound macadam paving 12,820 ft. highway in Woodbury, to Lawton Constr. Co., Providence, R. I., $84,936 and $75,887 respectively; also 3 in. bituminous macadam

Streets and Roads (Continued)

paving 13,435 ft. in Enfield, and concrete paving, etc. 3,290 ft. in Suffield to Lane Constr. Co., 37 Colony St., Meriden, $71,049 and $18,699 respectively; 9 in. rein.-con. paving and repairs to Windsor Underpass in Windsor, to J. Mariani, 106 Hobart St.; New Haven, $12,961. Grand total $1,099,520. Noted Aug. 11.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading Autumn Ave., to J. J. M. Eng. Co., $4,118; Bedford Ave., to G. M. Mandato, 201 Neck Rd., $3,336; East 94th St., to J. V. Turecamo, 8706 Bay 12th St., $5,831; and Glenwood Ave., to Castle Bros., Johnson Pl., $22,713. Grand total $35,998. Noted Aug. 25.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, granite block paving Dikeman St., to M. J. Grant, 139 Potter Ave., Astoria $46,037, and Nassau Ave., to Leonard Paving Co., Woolworth Bldg., New York City $60,218; sheet asphalt paving Gravesend Ave., to B. Turecamo Contg. Co., 8706 Bay 12th St. $159,056, and Avenue U, to G. M. Mandato Contg. Co., 201 Neck Rd. $76,611. Grand total $341,922. Noted July 28.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, etc. 90th Ave., etc., to J. Frey $2,578, and 91st Ave., to C. Kurth, 9519 126th St., Richmond Hill $2,359; asphalt paving, etc. National Ave., to W. J. Fitzgerald, 547 West 45th St., New York City, $107,146; sheet asphalt paving, etc. Central and Farmers Aves., to Cleveland Trinidad Paving Co.; Flushing, $75,738. Grand total $187,821. Noted Aug. 18.

N. Y., New York—W. J. Flynn, acting pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to C. D. Beckwith, Seneca Ave. and Edgewater Rd., bituminous concrete paving Lacombe Ave. $64,992; to Casper Helbock Co., Harlem River and 150th St., grading and asphalt block paving East 233rd St. $65,847, and to Regan Towers Co., 124 West 121st St., Lafayette Ave., $24,021; to Brusstar Constr. Co., Harlem River and 150th St., grading and sheet asphalt paving Rochambeau Ave. $12,790, and Delafield Ave. $25,318, and to Gaffney Constr. Co., Storey and Hermany Aves., Barrette St. $19,979; to Burnside Contg. Co., 270 Burnside Ave., grading West 251st St. $5,030, to I. F. Cavaluzzo, 1300 Cromwell Ave., Noble Ave. $13,274, Morris Park Ave. $22,629 and Orloff Ave. $26,371, and to Morris Park Contg. Co., 1991 Cruger Ave., Lacombe Ave. $16,018; to F. Pestone, 1657 Colden Ave., sewer in East 233rd St. $3,020, and to A. Musumecci, 277 East 146th St., Radcliffe Ave. $12,547, and Odell St. $1,635. Grand total $313,471. Noted Aug. 25.

N. Y., Rye—Office W. H. Selzer, village clk., Municipal Hall, paving various streets, to Barber & Coccola and Lux, 8 School St., $121,075.

N. Y., Rye—Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, paving Cross Country Parkway from Boston Post Rd., to Forest Ave., here, to J. Arborio, 59 Center St., New Haven, Conn., $74,535. Noted Aug. 11.

N. Y., Syracuse—Bd. Contr. & Supply, City Hall, to Rago Bros., Union Bldg., paving South Geddes St. $55,756, and Twin Hills Dr. $36,632; to Dale Eng. Co., 1066 North Geddes St., Shotwell Park extension $10,998, and Hastings Pl. $7,976; to G. D. Dickinson, Union Bldg., Wadsworth St. $34,121, May and Eastman Aves. $14,774, and Hickory St. $8,518. Grand total $168,775.

New Jersey—Bd. Freeholders Monmouth Co., paving 2.81 mi. Como-Allenwood Rd., to Freehold Constr. Co., Freehold, $116,024, 1.82 mi. Englishtown-Tennent Rd., to Wallace, Tozour & Wall, Millville, $79,069; and 3.17 mi. Tyndall Ave., Middletown, to Jannarone Constr. Co., 225 Passaic Ave., Belleville, $52,534. Grand total $247,627.

N. J., Linden — Union Co. (Elizabeth), concrete paving Stiles Ave., here, to Elizabeth Paving Co., 715 Elizabeth Ave., Elizabeth, $192,383. Noted Aug. 25 under "Elizabeth."

N. J., Linden — Sheet asphalt paving Fernwood and Dewitt Terraces, to J. R. Gilligan Casey Co., 972 Broad St., Newark, $58,802 and $19,148 respectively; Henry and Elm Sts., to Franklin Contg. Co., 20 Washington Pl., Newark, $58,985; also Hagel and Dewitt Sts., to J. F. Burke, 309 Park Ave., Plainfield, $35,802. Grand total $172,737.

N. J., Woodbridge — Bd. Freeholders Middlesex Co., concrete paving Woodbridge Ave., Highland Park, to A. Keyes, Woodbridge, $45,594.

Pennsylvania—State Hy. Comn., Harrisburg **(R. means Route and A. Application)**, grading, etc. 38,939 cu.yd. A.3802, Luzerne Co., to J. Banks Constr. Co., 191 Academy St. Wilkes-Barre, $77,927; concrete paving, etc. 41,070 sq.yd. R.70, Sect. 4-A, A.4358, Allegheny Co., to R. H. Cunningham, Turtle Creek $235,083, 17,428 sq.yd. R.146, Sect. 5, Montgomery Co., to McNichel Paving & Constr. Co., 1923 Cherry St., Phila. $71,588, 567 sq.yd. A.3130-B, and 9,456 sq.yd. A.384, Somerset Co., to M. F. McCabe & Co., Fairmount, W. Va. $7,546 and $41,430 respectively, 30,290 sq.yd. R.70, Sect. 4-C, Allegheny Co., to Fort Pitt Constr. Co., Martin Bldg., Pittsburgh $186,023, 23,010 sq.yd. A.4746, Beaver Co., to Rinehart Bros., East Liverpool, $85,219, and 3,180 sq.yd. R.53, Blair Co., to David Bailey, Morrisdale $16,543. Grand total $721,359. Noted July 28.

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Pa., Phila.—Dept. Pub. Wks., Bureau Engineering, to McNichol Paving Co., 1923 Cherry St., grading Bigler, Galloway, Johnston, Lawrence, 3rd and 4th Sts. $26,494, also grading and improving City Line Ave. $6,500; to Curtis Bros., State Rd. and Unruh St., grading aproaches for Bustleton Avenue Bridge over railroad tracks, at Sumerton St. $7,363, to D. Duffin, 5101 Roosevelt Rd., and Frank Mark Contg. Co., N and Wingnocking Sts., F St. (undergrade portion) $2,057 each, to S. C. Ratzell, Limekiln Pike and Haines St., Gerhard St. $621; to J. F. Malloy, 15 Mermaid Lane, High and Mechanic Sts. $3,289, also grading and improving Northwestern Ave. $4,341; to Barber Asphalt Co., 239 North 30th St., asphalt repaving Springfield Ave. $7,568 and furnishing asphalt paving mixtures $20,200; to Eastern Asphalt Co., Penn Bldg., asphalt repaving Spring Garden (track area) $33,883; to C. G. Centrone, 522 North 65th St., redressed granite block repaving Buttonwood St. $5,790, and Poplar St. $18,410, to Union Paving Co., 123 South 21st St. Margaret St. (track area) $27,942, and 8th St. $38,585, also to Mazzola & Marano, Inc., 739 South 7th St., 8th St. $60,351, 8th St. (track area) $20,444, 11th St. and track area $35,884; to Municipal Constr. Co., Washington Sq. Bldg., grading and repaving Allen, Bath and Victoria Sts., $32,925; and to McHugh & Lucas, Peoples Bank Bldg., repairing bridges $2,995. Grand total $355,842. Noted Aug. 25.

Pa., Phila. — Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., repaving Broad St. between Louden St. and Wagner Ave.; and replacing 1,720 ft. existing granite blocks on concrete base (with bitulithic mastic filler), 69 ft., in Broad Street Subway, to Union Paving Co., 123 South 21st St., $51,411. Noted Sept. 1.

Pa., Pittsburgh — Grading, paving, etc. South Beatty St. between Baum Blvd. and Penn. Ave., to Booth & Flinn Ltd., Forbes St., $25,484. Engrs. est. $32,500. Noted Aug. 18.

Delaware—State Hy. Dept., Dover, grading and concrete paving 14,400 sq.yd. Columbia to Laurel-Sharptown Rd., to W. W. Truitt, Lincoln, $43,498, engrs. est. $43,498; also 5,915 sq.yd. DuPont Rd. from Lancaster to Kennett Pike, to D. E. O'Connell & Sons, Ridley Park, Pa., $29,669, engrs. est. $29,669. Noted July 21.

Md., Baltimore—Bd. Awards, concrete paving 5,320 sq.yd. streets listed Contr. 426, to Aiello Contg. Co., 4th and Gough Sts., $12,108; sheet asphalt paving 7,900 sq.yd. Contr. 427, to Amer. Paving & Contg. Co., Montebello Ave., $38,380. Noted Sept. 8.

North Carolina—State Hy. Comn., Raleigh, **(S. P. means State Project)**, grading and plain concrete paving, 10.75 mi. S. P. 1996, Wilson Co., to Zeigler Bros., Greensboro, $222,885; grading and gravel surfacing, etc., 5.06 mi. S. P. 7720, Watauga Co., to J. F. Mulligan Constr. Co., North Wilkesboro, $87,598; grading, clearing, top soiling, etc. 6.74 mi. S. P. 604, Alexander Co., to W. E. Graham, Mt. Ulla, $44,536; clearing, grading, etc. 6.91 mi. S. P. 188, Pitt Co., to Jamieson Bros., Inc., High Point, $26,981. Grand total $382,000. Noted Aug. 4.

South Carolina—State Hy. Dept., Columbia, asphalt paving 9.42 mi. Project 25, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, N. C., $279,220. Noted Aug. 11.

Ala., Birmingham — City Comn. **(e.e. means engrs. est.)** grading and 2 in. asphalt on 6 in. concrete paving, etc. 8 blocks 81st St., and 2 blocks 60th St., both 40 ft. to Concrete Serv. Co., Amer. Trust Bldg., $43,066 and $10,711 respectively e.e. $58,700 and $12,150 respectively, 2 blocks Warrior Rd., 20 ft., to J. D. Mullarky, 2400 Ave. J, $2,270 e.e. $3,150, 6 blocks Georgia Rd. and 15th St. N., to H. N. Bowdry, Alabama Power Bldg., $40,422 e.e. $49,250, 3 blocks avenues T and Q, Ensley, to Morgan-Hill Paving Co., Woodward Bldg. $13,150 e.e. $16,300; also 2 in. asphalt on 5 in. concrete paving 3 blocks 15th Pl., to Dunn Constr. Co., Lincoln Life Bldg. $13,102 e.e. $16,200, 3 blocks Lanark Rd., Melrose and Sterline Places, to Southern Roads Co., Pioneer Bldg. $11,228 e.e. $13,200, and 3 blocks 6th and 8th Aves., 59th St. S., to Newell Constr. Co., Martin Bldg. $10,809 e.e. $13,000, all foregoing 30 ft. Grand total $144,758.

Georgia—State Hy. Dept., East Point, paving 9.33 mi. Newman-West Point Rd., Troup and Coweta Counties, to Wentley Constr. Co., La Grange $20,611, 5 mi. Bainbridge-Donaldsonville Rd., Decatur Co., to J. W. Gwin, Age-Herald Bldg., Birmingham, Ala. $113,973, and 10.65 mi. Columbus-Macon Rd., Muscogee Co., to Cambell Constr. Co., Columbus, Ga. $276,244; asphaltic concrete paving 9.08 mi. Hazelhurst-Waycross Rd., Bacon Co., to Coffee Constr. Co., Eastman, $75,635; concrete paving 4 mi. Columbus-Albany Rd., Terrell Co., to Hopper Winston Co., Montgomery, Ala. $85,823, 3.4 mi. Toccoa-Cornelia Rd., Stephens Co., to Pittman Constr. Co., Rhodes Bldg., Atlanta $87,027; also grading 18 mi. Lawrenceville-Winder Rd., Gwinnett and Barrow Counties, to M. R. Woodwall, Inc., Walton Bldg., Atlanta $81,581, and 9.08 mi. Hazelhurst-Waycross Rd., Bacon Co., to W. Z. Williams, Alma $22,180. Grand total $763,074.

Miss., Kosciusko—Bd. Supervs. Attalla Co., gravel on rock surfacing 9.744 mi. Federal Aid Project 37-A, to Clark & McCaa, Port Gibson, $48,906. Noted Aug. 4.

Miss., Oxford—Bd. Supervs. Lafayette Co. gravel surfacing, etc. 7.232 mi. Federal Aid Project 97-A, to Dawson Bros. & Beaver, Memphis, Tenn., $18,936. Noted Aug. 4.

Ohio—G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, grading and concrete paving 0.952 mi. Sect. "Bridgeport" National Rd., Blemont Co., to Springer & Springer Constr. Co., Wheeling, W. Va., $43,952; also 2.476 mi. Sect. "D" Dayton-Lebanon Rd., Warren Co., to J. L. Radebaugh, Montgomery, $80,727.

O., Bluffton—Brick on concrete repaving approximately 1 mi. Main St., to L. L. Clymer, Bluffton, $80,000.

O., Kenmore—Grading, walks and paving, etc. 2,100 ft. North 17th St., to T. E. McShaffrey Co., 173 South Forge St., Akron, $32,396. Engrs. est. $30,000. Noted May 26.

O., Lisbon—Columbiana Co., surfacing and widening narrow brick section Valley-Damascus Rd., to J. D. Paxon, Salem, $29,988. Engrs. est. $30,000. Noted Aug. 18.

Indiana—J. D. Williams, dir. State Hy. Comn., Indianapolis, concrete paving 7.3 mi. Clermont-Pittsboro Rd., State Rd. 34, 18 ft., to Indiana Paving Co., Rochester, $129,963.

Ind., Indianapolis—Marion Co., concrete paving 10,870 sq. yd. Sherman Dr., to W. C. Halstead, 1041 W. 25th St. Indianapolis, $33,030. Engrs. est. $35,831.

Ind., Martinsville—Morgan Co., constructing Kleiman Rd., to Winslow & Hooten, Greenfield, $20,725; and Faut Rd., to H. Hill, Martinsville, $5,360.

Ind., Rushville—Rush Co., constructing Perkins and Harrison Sts., to Weintraut & Son, Waldron $16,530 and $31,268 respectively.

Michigan—C. L. Cowgill, resident engr., Plymouth, sheet asphalt paving 1.022 mi. State Trunk Line Rd. M082-9, Contr. 1, Wayne Co., 20 ft., to Village of Wayne, Wayne, for State Hy. Dept., Lansing. $47,949.

Michigan—G. H. Green, resident engr., Alpena, grading 7.034 mi. State Trunk Line Rd. MO68-8, Contr. 1, Oscoda Co., to Hill & Belknap, East Tawas, for State Hy. Dept., Lansing. $99,238.

Michigan—G. H. Green, resident engr., Alpena, grading 8.856 mi. Federal Road F016-13, Contr. 3, Cheboygan Co., to M. E. Hull, Dryden, for State Hy. Dept., Lansing. $99,316. Noted Aug. 4.

Michigan — G. H. Green, resident engr., Alpena, graveling 5.07 mi. State Trunk Line Rd. M065-9, Contr. 1, Ogemaw Co., 16 ft., to R. A. Jones, Prudenville, for State Hy. Dept., Lansing. $76,860. Noted Aug. 11.

Mich., Detroit—To M. R. Hanna, Ryan Rd., grading and 3½ in. sheet asphalt on 8 in. concrete paving Haverhill Ave., $35,952, Koppin Ave. $18,470, Lannoo Ave. $31,993, Lilac Ave. $15,414, Lesure Ave. $5,228, Tracey Ave. $5,324, Moneart Ave. $20,450, Hawthorne Ave. $28,907, Buckingham Ave. $35,779, Remington Ave. $28,995, and Collingham Dr. $30,672; to Detroit Asphalt Paving Co., 909 Transportation Bldg., Omira Ave. $11,576, Palmer Ave. $8,278, Linzee Ave. $5,211, Steel Ave. $21,094, Sorrento Ave. $21,153, Appoline Ave. from Davison to Schoolcraft Sts., $10,884, Appoline Ave. from Puritan to Grove Sts. $21,067, Forrer Ave. $17,275, Bedford Rd. $40,643, Hayes Ave. $90,605, Gallagher Ave. $5,837, Hayes Ave. from Elmdale to Houston Sts. $68,687, Lambert Ave. $5,502, Kirby Ave. $4,465, Quinn Ave. $16,074, Dubay Ave. $30,398, Hildale Ave. $115,518, State Fair Ave. $40,302, Nevada Ave.

Streets and Roads (Continued)

$65,136, Wade Ave. $21,215, Kelly Rd. $64,867, Beaconsfield Ave. $17,810, Bedford Ave. $16,948, Webb Ave. $7,025, Chicago Ave. $4,090, Ardmore Ave. $12,816, Woodmount Ave. $15,412, St. Lawrence Ave. $19,543, Elmer Ave. $34,919, Winthrop Ave. $31,715 and West Chicago Ave. $81,101; to Cleveland Trinidad Paving Co., 403 Hammond Bldg., Holmur Ave. $36,781, 14th Ave. $10,523, Cloverlawn Ave. $8,745, Washburn Ave. $22,964, and Freeland Ave. $13,881; to Cooke Asphalt Paving Co., 1240 Penobscot Bldg., Dwyer Ave. $17,649. Grand total $1,294,833.

Mich., Detroit—Medina and stone curbing and 3½ in. sheet asphalt on 8 in. concrete paving Collingham Dr. and 4 avenues, to M. R. Hanna Co., Ryan and Nevada Rds., $144,803, Bedford Rd. and 15 avenues, to Detroit Asphalt Paving Co., 909 Transportation Bldg., $433,800; Dwyer Ave., to Cooke Asphalt Paving Co., Penobscot Bldg., $17,649; Holmur and Manor Aves., to Cleveland Trinidad Paving Co., 402 Hammond Bldg., $47,170; Aurora and Hubbel Aves., to Lennane & McIlvenna, 7777 West Chicago Blvd., $13,153; and Fordham Ave., to Dept. Pub. Wks., City Hall, $13,854. Grand total $670,429.

Mich., Detroit—Wayne Co., concrete paving 1.037 mi. S.T.L. Road. MO 82-19 and 20, Contrs. 1 and 2, 0.656 ft. State T. L. MO 82-18, Contr. 1, both 20 ft., to Wayne Co. Rd. Comn., Detroit, $41,480 and $26,240 respectively.

Mich., Wyandotte — To Bishop & Weir, 6451 East Six Mile Rd., Detroit, grading, curbing and 8 in. concrete paving Assessment Dist. 81, 4th St., $83,262; to E. A. Campbell, Kalamazoo, Dist. 85, $13,504, Dist. 86, $8,502, Dist. 92 $54,195, Dist. 93 $16,721, and Dist. 95, Cedar St. $8,731; to Cement Paving Co., 606 Woodward Ave., Detroit, Dist. 94, $6,791. Grand total $191,706.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, to H. Zolper & Sons, Mendota, concrete surfacing 0.55 mi. Route 2, Sect. 73-V-1, Lee Co. $11,375, to Hamilton-Hoffman Constr. Co., Carbondale, 2.18 mi. Route 13, Sect. 17, Perry Co. $36,027, and Route 123, Sect. 101, Menard Co. $190,570, to Duncan Constr. Co., Ottawa, 0.78 mi. Soldiers and Widows Home Rd., Will Co. $27,735, and gravel surfacing 0.02 mi. Project 7, Sect. IA, La Salle Co. $7,994; to Harrison Eng. Corp., Mutual Bldg., Kansas City, Mo., concrete surfacing 15.58 mi. Route 49, Sects. 135 and 136 Iroquois Co. $277,491, to W. O'Neil Sons Co., Faribault, Minn., 9.85 mi. Route 72, Sect. 114, Carroll and Ogle Counties $211,295, to E. M. Rocho, Freeport, 0.14 mi. Route 72, Sect. 114-W, Carroll Co. $2,347, to L. B. Dyer Constr. Co., Hoopeston, 1.61 mi. Route 91, Sect. 111, Peoria Co. $51,672, to H. C. Holmes, Macomb, 0.83 mi. Route 95, Sect. 119-G, McDonough Co. $7,019, to Stocker Gravel & Constr. Co., Highland, 4.89 mi. Route 110, Sects. 115 and 119, Macoupin Co. $116,000, to Mitchell Contg. Co., Marion, 2.34 mi. Route 148, Sect. 127, Franklin Co. $78,638, to W. A. Black Co., 565 West Washington St., Chicago, 0.53 mi. Route 6, Sect. JR-1, Du Page Co. $8,005, to J. B. Lyon, Robinson, 0.36 mi. Route 6, Sect IV-1, Lawrence Co. $17,729, to Powers-Thompson Constr Co., Joliet, Route 61, Sect 112, McHenry Co. $260,638, to W. C. Johnson, Belleville, Route 13, Sect. 25-S, St. Clair Co. $19,904, to E. J. Eiff Co., Quincy, Route 85, Sect. 101, Mercer and Warren Counties $102,410, to Madison Constr. Co., Edwardsville, Route 140, Sect. 109, White Co. $167,621, to C. J. Moritz, Inc., Effingham, Route 3, Sect. 38, Jersey Co. $72,345, to J. W. Etchison Co., Casey, Route 23, Sect. 8, Sangamon Co. $64,814, and to Fogleman & Davidson, De Soto, Mo., Route 3, Sects. 62 and 62-X Greene Co. $33,664; to J. S. Groves Sons Co., grading 5 mi. Route 59, Sect. 106-A, Lake Co. $63,326, 1.46 mi. Route 78, Sect. 134-A, Fulton Co. $32,050 and 1.22 mi. Route 89, Sect. 115-A, Bureau Co. $32,779, to J. J. Dunnegan Constr. Co., Shenandoah, Ia., 4.56 mi. Route 51, Sect. 102-A, Cook Co. $92,227, to Stevens Bros., 612 Endicott Bldg., St. Paul, Minn., 3,27 mi, Route 72, Sect. 113-A, Carroll Co. $31,524, to King & Shehan, Dudley, 7.44 mi. Route 142, Sect. 101-A, Wayne Co. $50,700, to M. E. McGuire, Indianapolis, Ind., 1.57 mi. Route 160, Sect. 134-A, Madison Co. $34,547, and to French Constr. Co., Fairfield, 6.45 mi. Route 182, Sect. 101-A, Marion Co. $35,837. Grand total $2,138,282.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, grading, 7 in. concrete paving, etc. portions 2 alleys, to Paramount Constr. Co., 107 North Clark St.; grading, curbing, guttering and asphalt on old macadam resurfacing portion Albion Ave., and grading, curbing, guttering and asphalt on 6 in. concrete paving portion Barton Ave., to Barber Constr. Co., 5001 Elston St., portion Bernard St., North Central, Ardmore, Drake, North St. Louis, Christiana, and North Spaulding Aves., also grading, curbing, guttering and asphalt on 8 in. concrete paving portion West Madison St., to White Paving Co., 1735 Fullerton St.; grading, curbing, guttering and 8 in. concrete paving, etc. portions Hale Ave., to Hedges Constr. Co., 64 West Randolph St., portions Hutchinson St., North Hermitage and North Long Aves., to J. A. Ross, 4561 Armitage St., portions West 72nd, 73rd and 74th Sts., South Claremont, South Okaley and South Irving Aves., to J. A. Sackley Co., 4608 Belmont Ave., portions West 48th, 49th and 50th Sts., Komensky, South Kedvale, and South Keeler Aves., to J. A. McGarry & Co., 4556 Patterson St., portion West 84th St., to J. Dillon & Co., 2953 South Halsted St.; grading, curbing, guttering and asphalt on 6 in. concrete paving portions East 75th Pl., East 84th, 110th and West 104th Sts., Ellis, Normal, Emerald and South Union Sts., also grading, curbing, guttering and 2 in. asphaltic concrete on 6 in. concrete paving portions Wallace and South Bishop Sts., to Amer. Asphalt Paving Co., 133 West Washington St., portions West 57th Pl. and South Irving Ave., grading, curbing, guttering and 2 in. asphaltic concrete on old macadam surfacing portion West 66th St., also grading, curbing, guttering and 2 in. asphaltic concrete paving portions West 116th and West 117th Places, West 116th and West 117th Sts., Love and South Union Aves., to R. F. Conway Co., 844 Rush St.; 6 ft. concrete sidewalks on portions Wallace and Aberdeen Sts., South Bishop and Princeton Aves., to H. Johnson & Co., 430 West 111th St., on portions West 94th and 109th, East 79th, 80th, 81st and 82nd Sts., Prairie, Indiana and South Michigan Aves., to Superior Concrete Constr. Co., 1109 East 52nd St., portions West 63rd, 64th, 65th, Gunnison and Giddings Sts., Leonard, North Central, Major, Biltmore, Markham, Komensky, South Karlov, Kedvale, Keeler, Kildare, Tripp, North Melvina, Narragansett, Sunnyside, Montrose and Melvin Aves. to Banner Constr. Co., on portions West 65th, 66th and 67th Sts., Komensky, South Wheeler, Karlov, Kedvale, and Indiana Aves., to Universal Constr. Co., portions Gunnison and Giddings Sts., Leland, North Austin and North Melvina Aves., to M. Schuh, 4625 Dickens Ave., portions Clarkson Court, Eastman, Larrabee, South Robey, North State, West 57th, 58th, South Mozart and South Richmond Sts., Euclid, North Harlem, North Lawler, Lathem, Forest Glenn, South Francis, South Sacramento and Mendell Aves., to G. Kehl & Sons, 1225 North Maplewood Ave., portions North Linder, Morse, Berteau and Milwaukee Aves., to C. Schroeder, Jr., portions East 77th and 78th Sts., Calumet, Prairie and Indiana Aves., to Aldrich Constr. Co., 140 South Dearborn St.

Wis., Milwaukee—Bd. Pub. Wks., R. E. Stoelting, comr., paving Center St., to W. F. Hunt, 445 Milwaukee St. $26,536, Grant Blvd., to Badger Constr. Co., 97 East Wisconsin Ave. $27,433, Orchard St., to Rybock & Sadowski, 1092 2nd Ave. $6,855, 34th Ave., to Czerwinski Constr. Co., 816 Clinton St. $828, 37th St., to J. C. Bluhm & Sons Co., 1299 Achilles Pl. $13,192, 29th St., to Eastern Constr. Co., 878 Franklin Pl. $7,556, 16th and 17th Aves., to Blech Constr. Co., 2123 Vliet St. $2,162; asphalt paving, etc. Kinnickinnic and Lisbon Aves., to Wisconsin Asphalt Paving Co., 123 Wisconsin Ave. $31,711 and $54,532 respectively; grading and paving 2 alleys, to Schwerm Bros., 50 Meinecke Ave., $5,261, and 2 alleys, to Schramkoski & Sons Co., 918 Dousmann St. $4,556. Grand total $180,622.

Iowa—State Hy. Comn., **(P.P. means Primary Project, and F.A.P. Federal Aid Project)**, grading, paving, etc. 12,382 sq.yd. U. S. Highway 30, P. 504, Benton Co. to Bryant Paving Co., Waterloo $32,096, 141,200 sq.yd. U. S. Highway 65, P.P. 538 Franklin Co., and 107,680 sq.yd. same road, F.A.P. 212, to Harrison Eng. Co., 506 Mutual Bldg., Kansas City, Mo. $365,193 and $267,644 respectively, 75,135 sq.yd. U. S. Highway 30, F.A.P. 14, Harrison Co., to National Constr. Co., 310 Arthur Bldg., Omaha, Neb. $174,211, grading, etc. 18,968 cu.yd. Murray Stub Rd., P.P. 506, Clarke Co., to C. P. Leach, Moravia $7,128, 118,000 cu.yd. U. S. Highway 30, F.A.P. 14, Harrison Co. and 20,344 cu.yd. P.P. 38, Monona Co. to G. W. Condon, 223 Grain Exch. Bldg., Omaha, Neb. $25,511 and $3,865 respectively, and 384,510 cu.yd. F.A.P. 2, Woodbury Co., to E. V. Martin, Ames $86,669; graveling 2,800 cu.yd. U. S. Highway 266, Grundy Co., to Snater Constr. Co., Ackley, $7,563; drain tile sewer, etc., on F.A.P. 261, Poweshiek Co., to W. J. Link, West Point, $5,902, Grand total $975,774.

Ia., Fairfield—R. V. Goodman, city clk., grading, paving, etc. 9,500 sq.yd. East Burlington St., to C. H. Kearns, Fairfield, at $1.88 per sq.yd. Noted June 30.

Ia., Newton—To J. S. McLaughlin & Sons Co., 519 Insurance Bldg., Des Moines, grading, curbing and paving 12,260 sq.yd. various streets, 7 in. concrete at $2,35 per sq.yd. and sheet asphalt at $2.64 per sq.yd. Noted July 21.

Ia., Spirit Lake—Dickinson Co., to F. Weaver, Spirit Lake, improving 26 mi. road, 12,000 cu.yd. gravel 1 mi. haul at $0.40 and $0.41 per cu.yd., 70,500 units ½ mi. haul, $0.0725, and $0.075, and 10,500 cu.yd. stripping $0.20.

Minnesota—State Hy. Comn., St. Paul, concrete paving, etc. approximately 181,091 sq. yd. State Project 63-22, Divs. B and D, Federal Aid Project 383, north and south of New Brighton, to Hanlon & Okes, 1501 Merchants Natl. Bank Bldg., St. Paul, $156,593. Noted Aug. 4.

Minn., Minneapolis—A. P. Erickson, aud. Hennepin Co., asphaltic concrete paving, etc. approximately 21,252 sq.yd. Project 784; also concrete and gravel paving approximately 100,339 sq. yd. Divs. A and C same road, to Hanlon & Okes, 1501 Merchants Natl. Bank Bldg., St. Paul, $52,010 and $184,984 respectively. Noted Aug. 11.

Kan., Independence — Montgomery Co., concrete paving, etc., 3.733 mi. Federal Aid Project 70-A, and 1.59 mi. Federal Aid Project 84-A, both 18 ft., to A. G. Sherwood, Independence, $94,356 and $35,844 respectively. Engrs. est. $95,408 and $41,157 respectively. Noted Aug. 4.

Nebraska—State Hy. Comn., Lincoln **(F.A.P. means Federal Aid Project and S.P. State Project)**, to Central Bridge & Constr. Co., Wahoo, grading 6.5 mi. F.A.P. 58-C $7,895, 11.8 mi. F.A.P. 261-B $22,399, both Colfax Co., 16.9 mi. F.A.P. 277-D, Sheridan Co. $93,114, and graveling 1.8 mi. F.A.P. 304-K, Dodge Co. $2,787; to G. Ross, Alliance, grading 4.2 mi. F.A.P. 277-E, Grant Co. $17,895, to Theisen Bros., Osmond, 10.2 mi. F.A.P. 83-C, Antelope Co. $22,373, and 9.2 mi. F.A.P. 269-B, Cedar Co. $29,430, to E. L. Marrs, Cody, 3.7 mi. F.A.P. 249-C, Garden Co. $4,472, and 5 mi. F.A.P. 249-D, Keith Co. $11,938, and to R. R. Knight, Grand Island, 10.7 mi. F.A.P. 161-B, Saline Co. $23,595; to Steele & Olinger, Sidney, grading Lodge Pole-Potter Rd., F.A.P. 149-B, Cheyenne Co. $960, and 15.4 mi. F.A.P. 273-A, Furnas Co. $32,788; to Koehler Constr. Co., Sterling, graveling 8.5 mi. F.A.P. 5, Madison Co. $15,264, and 6.1 mi. F.A.P. 31, Dixon Co. $7,574, to Yant Constr. Co., 905 Omaha Natl. Bank, Omaha, 9.9 mi. F.A.P. 26, Chase Co., $29,744, 2 mi. F.A.P. 29, Butler Co. $2,675, 0.8 mi. F.A.P. 92-B $1,918, 9.5 mi. F.A.P. 92-C, $14,362, 3 mi. F.A.P. 212 $7,752, all foregoing Sherman Co., 10.1 mi. F.A.P. 204-A, Butler Co. $27,490, 10.4 mi. F.A.P. 205-K, Webster Co. $9,721, 11.6 mi. F.A.P. 602-A, Polk Co. $10,706, and grading same road $13,414; to A. Carter, McCook, graveling 2.2 mi. F.A.P. 46 $6,018, and 1.3 mi. S.A.P. 293-A $2,541, both Red Willow Co., to Stevens Bros., St. Paul, Minn., 11.2 mi. F.A.P. 70-B, Wayne Co. $12,171, to Roberts Constr. Co., 404-5 1st Natl. Bank Bldg., Lincoln, 1.6 mi. F.A.P. 262-B Thurston Co. $5,250, to Reel & Kennedy, Dalton, 14.6 mi. F.A.P. 601-A, Buffalo Co. $21,658, and to Webster Bridge & Constr. Co. Omaha, 17.6 mi. F.A.P. 158-A, Holt Co., $40,844; to Monarch Eng. Co., Falls City, grading and bridges on F.A.P. 139-D, Holt Co., $17,131; to Nebraska Constr. Co., 525 South 13th St., Lincoln, bridge on 10 mi. F.A.P. 83-C, Antelope Co., $4,642; to Walters Constr. Co., Omaha, bridges on 15.4 mi. F.A.P. 273-A, Furnas Co., $37,643 to Artificial Stone Co., Bruning, culverts on 14 mi. F.A.P. 97-C, Pawnee Co. $29,891, and 8.9 mi. F.A.P. 246-C, Richardson Co. $27,511, to Humphreys Morris Co., Omaha, 11.8 mi. F.A.P. 261-B, Colfax Co. $11,784, and to Norfolk Bridge & Constr. Co., Norfolk, 9.2 mi. F.A.P. 269-Cedar Co. $11,223. Grand total $669,228. Noted Aug. 18.

Neb., Emerson—Grading and 6 in. Johnson concrete paving, etc. approximately 10,800 sq. yd. streets in Paving Dists. 3 and 4, to Booth & Olson, Inc., Sioux City, Ia.

Neb., Hastings—For 6 in. rein.-con. paving, etc. 1,800 sq. yd. Paving Dist. 135 and 6 in. vibrolithic concrete paving, etc. 8,690 sq. yd. Dist. 136, to Mid-State Constr. Co., Hastings.

Neb., Fremont—J. R. Henry, comr. Br. Pub. Wks., concrete paving 9,830 sq.yd. streets in Dist. 78, and 2,750 sq.yd. Dist. 79, to W. Weidner, 1125 East 12th St.

Neb., Litchfield—M. F. Snovely, city clk., grading and vibrolithic, concrete paving, etc. 6,000 sq.yd. Main St. in Dist. 1, to Abel Constr. Co., 318 Terminal Bldg., Lincoln, $17,028. Noted Aug. 11.

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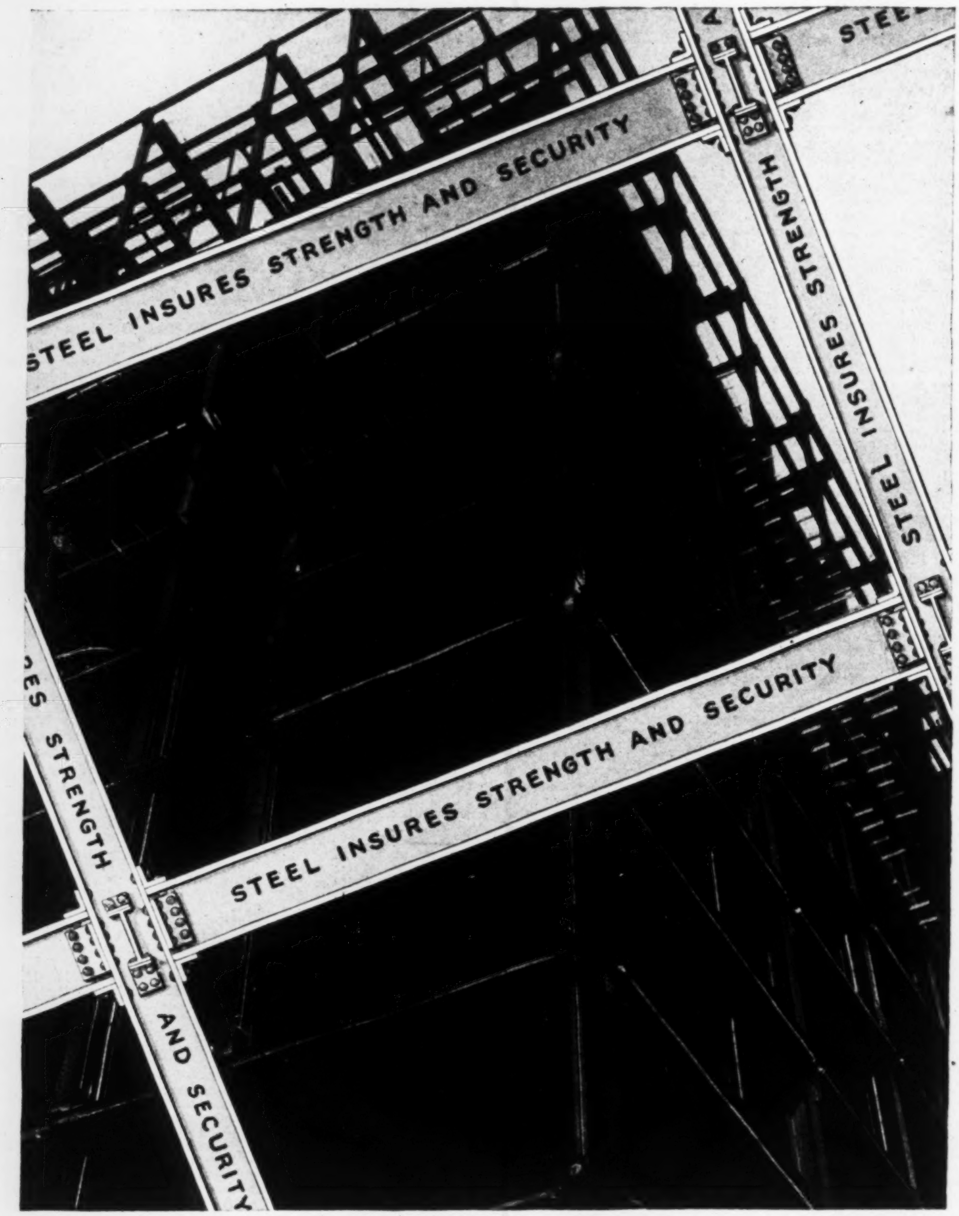
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Steel Insures Strength and Security

Streets and Roads (Continued)

Wyoming—State Hy. Comn., Cheyenne, grading, graveling, etc. 11,000 cu.yd. Carlile-Sundance Rd., Federal Aid Project 183-A, Crook Co., to Sharrock & Purcel, Casper, $95,496; and grading, etc. Lusk-Douglas Rd., Federal Aid Project 170-B, Niobrara Co., to J. Davis, Bordeaux, $39,115.

Mont., Great Falls—Warrenite bitulithic paving, etc. approximately 60,000 sq.yd. Central Ave., 1st and 3rd Aves. N., to S. Birch & Sons Co., 211 Front St., Fargo, N. D. Noted June 30.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Eyermann Constr. Co., 1218 South Grand Blvd., vibrolithic concrete paving 4,435 sq.yd. Ecoff Ave. $21,377, and recut granite block paving 2,610 sq.yd. 14th St. $16,640; to Perkinson Bros., Constr. Co., 3237 Carter Ave., rein.-con. paving 1,825 sq.yd. Harney St. $8,585, and brick paving 3,590 sq.yd. Elias St. $24,836; to Moreno Constr. Co., Syndicate Trust Bldg., concrete paving 300 sq.yd. Delor St. $9,394, asphaltic concrete paving 1,075 sq.yd. Hereford St. $7,000, and 1,150 sq.yd. Oxford Lane $7,393; to Granite Bituminous Paving Co., Ry. Exch. Bldg., warrenite bithulithic paving 4,315 sq.yd. 1,630 sq.yd. Reber Pl. $13,642, 3,240 sq.yd. Bradley St. $34,763, 4,315 sq.yd. Kingshighway between Forest Park and Manchester Ave. $33,933, and 5,600 sq.yd. Kingshighway between Scott Ave. and Forest Park $44,251. Grand total $217,259. Noted Aug. 4.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, rein.-con. paving, etc. Kingshighway Blvd. through Penrose Park south of viaduct and macadam paving north of viaduct, to J. F. McMahon Contg. Co., Buder Bldg., $16,452; rein.-con. paving, etc. approximately 3,800 sq.yd. Kingshighway Northwest, to Perkinson Bros. Constr. Co., 3237 Carter Ave., $9,374; and paving approximately 15,000 sq.yd. 12 alleys, to Central Paving & Constr. Co., 6161 Maple Ave., $32,145. Grand total $57,971. Noted Aug. 11.

Arkansas—State Hy. Comr., Little Rock, grading, etc. 11 mi. Fort Smith-Charleston Rd., to Interstate Constr. Co., Paris, Tex., $40,911, 15½ mi. Fort Smith-Greenwood Rd., to W. B. McCoy, Fort Smith $78,984, 14 mi. Warren Hermitage Rd., Sebastian Co., to R. J. Lynch, Little Rock $32,886, 9.5 mi. Charleston and Paris Rd., Logan Co., to Ellis & Ellis, Muskogee, Okla. $54,772, 8.5 mi. Yellville-Marshall Rd., Marion Co., and Piggott Rd., Clay Co., to S. C. Taylor, Birmingham, Ala., $67,887 and $35,814 respectivley, 7.6 mi. Rosston-Waldo Rd., Nevada Co., and 11 mi. Lewisville-Bradley Rd., Lafayette Co., to J. G. Newkirk Drainage Co., Little Rock, $35,338 and $42,928 respectively; grading and graveling 15 mi. Wynne-Harrisburg Rd., Cross Co., to W. J. Runyon Co., Sheffield, Ala., $34,479; concrete paving, 18 mi. Magnolia-Eldorado Rd., Union Co., to M. D. L. Cook & Co., Little Rock, $457,032, and repairing flood damage on Hot Springs Rd., to Harvey Brown Constr. Co., Little Rock, $33,839. Grand total $914,870. Noted Aug. 25.

Tex., Anderson—State Hy. Dept., Austin, bituminous on gravel and macadam paving, etc. 5.088 mi. Highway 90, Grimes Co., to Hayden & Austin, P. O. Box 1223, Houston, $93,369. Engrs. est. $100.000.

Tex., Houston—Asphalt paving approximately 7.500 sq.yd. Chartres St., to Smith Bros., 2402 Dallas Ave. W., $25,889; rock asphalt paving aproximately 15,900 sq.yd. St. Bernard St., to Uvalde Rock Asphalt Co., Post Dispatch Bldg., $52,458; graveling Tierwebster, Webster, Pease, Canfield, Burnett, Sumpter, Gray, Pierce, Roberts, Ennis, McIlhenny and Chase Sts., to J. M. Griswolds Sons, 3040 Polk St., $20,798; 2 in. asphalt on 6 in. concrete paving Tuam St., to A. M. Arnold & Co., Summer and Elder Sts., $30,865. Grand total $130,010.

Tex., Palestine — Anderson Co., concrete paving, etc. 112,650 sq.yd. State Hy. 43, to J. F. Foty & S. W. Gaylord, Wichita Falls, $263,587. Engrs. est. $285,000.

Tex., Waxahachie — Ellis Co., concrete paving 4.185 mi. State Highway 6, from Waxahachie north to point near Sterrett, 18 ft. to Fuller Constr. Co., Republic Bank Bldg., Dallas, $94,008. Engrs. est. $100,000.

Oklahoma—State Hy. Dept., Oklahoma City **(F.A.P. means Federal Aid Project and e.e. engrs. est.)**, to Standard Paving Co., 1742 East 6th St., Tulsa, grading, concrete slab surfacing etc. 67,621 sq.yd. Orlando Rd. F.A.P. 139-E, $156,245 e.e. $165,000, and 28,461 sq.yd. Guthrie Rd., F.A.P. 139-G, $71,141 e.e. $75,000, both Logan Co., also 68,054 sq.yd. Perry Rd., F.A.P. 139-H, Noble Co. $160,881 e.e. $175,000. Grand total $388,267. Noted Aug. 25.

Okla., Enid—R. T. Willams, city clk., grading and concrete paving 33,810 sq. yd. East Cherokee Ave., to E. W. Baker & Co., Perrine Bldg., Oklahoma City, $100,559. Engrs. est. $100,000. Noted Aug. 18.

Okla., Ponca City—Grading, curbing, guttering and vertical fibre brick paving 5,800 sq.yd. Dist. 72, to Rightmire & Baldwin, 109 East Grand St., $23,306. Engrs. est. $25,000. Noted Dec. 16.

Idaho—J. D. Wood, comr. Pub. Wks., at Office City Council, Salmon, crushed graveling, and warrenite paving, etc. 13,330 sq.yd. Federal Aid Project 90-B, Lemhi Co., to J. C. Maguire, Butte, Mont. $87,713.

Nevada—Directors Dept. Highways, Carson Co., graveling, etc. 23,000 cu.yd. Federal Aid Project 24-A, Sect. 2-C1, Churchill Co., contr. 167, to Dodge Bros., Inc., Fallon, $80,563. Noted Aug. 25.

Washington—State Hy. Comn., Olympia **(S.R. means State Road and F.A.P. Federal Aid Project)**, grading, etc. 82,000 cu. yd. S.R. 9, Sect. F.A.P. 113, Grays Harbor and Jefferson Counties, to Rowland Bros., Aberdeen $155,639, 56,000 cu.yd. S.R. 2, F.A.P. 156-A, Lincoln Co., to Crick & Kuney, 303 Baker Bldg., Walla Walla, $33,764, 142,000 cu.yd. S.R. 8, F.A.P. 144-B, Skamania Co., to Hazard & Sturgill, Stevenson $124,705, and 270,000 cu.yd. S.R. 8, F.A.P. 144-C, Skamania Co., to Coyle Constr. Co., Inc., 901 Westlake Ave. N., Seattle $137,306; also crushed graveling, etc. 5,150 cu.yd. S.R. 2, Douglas Co., to Goodfellow Bros., Wenatchee $10,235. Grand total $461,649. Noted Aug. 11.

California—State Hy. Dept., Sacramento, grading and bituminous macadam paving 7.6 mi. roadway between Dublin and Hayward, Alameda Co., to Ariss-Knapp Co., 961-41st St., Oakland, $336,052. Noted July 21.

California — Bd. Pub. Wks., Sacramento, grading and asphalt paving, etc. 3.1 mi. roadway between Sylvan School and Roseville, Sacramento and Placer Counties, to J. C. Compton, McMinnville, Ore., $86,794.

Calif., Banning — Curbing, guttering, walks and concrete paving West Hays St., etc., to C. Stahlman, 1455 Cypress Ave., Riverside, $42,225. Noted Sept. 1.

Calif., Corcoran—Curbing, guttering and asphaltic concrete paving, etc. Chittenden Ave., etc., to California Road & Street Impvt. Co., Bank of Italy Bldg., Fresno, $66,956.

Calif., Fullerton—F. C. Hezmalhalch, city clk., 5 in. asphaltic concrete paving, etc. West Malvern St., etc., to S. Finley, 204 East 4th St., Santa Ana, $39,600. Noted Aug. 25.

Calif., La Mesa—Grading and asphaltic concrete paving Fairview Ave., etc., to Hazard Constr. Co., 2528 Kettner Blvd., San Diego, $60,667.

Calif., La Mesa—Grading, concrete paving, etc. La Mesa and Dale Sts., etc., to D. H. Ryan, 1615 Fern St., San Diego, $33,966. Noted June 9.

Calif., Larkspur—Concrete and asphaltic concrete paving, etc. Hazel Ave., etc., to McDonald & Maggiora, 114 Sansome St., San Francisco, approximately $25,000.

Calif., Los Angeles—Grading and concrete paving, etc. Barret Rd. et al, to G. R. Curtis Paving Co., 2440 East 26th St., $103,694. Engrs. est. $100,950.

Calif., Los Angeles—Grading and 6 in. concrete paving, etc. 165,767 sq.ft. portion Vanowen St., to Gibbons & Reed, 221 East San Fernando Blvd., $59,795.

Calif., Los Angeles—Los Angeles Co., grading and concrete paving 115,817 sq. ft. Industrial Ave., Impvt. 667, to Griffith Co., Railway Bldg., $42,768; also curbing, guttering, walks, and disintegrated rock with oil and rock wearing surface, etc. 341,762 sq. ft. Kendrick Ave., etc., Impvt. 361, to to Baker & Vigus, I. W. Hellman Bldg., $67,675.

Calif., Pasadena—Grading, walks and concrete paving, etc. Lincoln Ave., to J. E. Haddock, 357 North Chester Ave., $70,038.

Calif., San Diego—San Diego Co., 5 in. concrete paving, etc. 465,022 sq.ft. LaJolla-Miramar Rd., to E. P. Ford, 4350 University Ave., $79,468; also grading, curbing, guttering and 6 in. concrete paving 311,860 sq. ft. and 6 in. rein.-con. paving, etc. 58,700 sq.ft. highway from La Mesa Heights to Bostonia, to D. H. Ryan, 4749 University Ave., $184,620.

Calif., Santa Cruz—S. A. Evans, city clk., grading and 5 in. concrete paving, etc. Seabright and Soquel Aves., etc., to Thompson Bros., $49,479. Noted Aug. 25.

Calif., Stockton—San Joaquin Co., to Heafey-Moore Co., 344 High St., Oakland, improving Lower Stockton Rd., 11,000 tons asphaltic concrete at $5.50 per ton, 600 tons seal coat $5.25, etc., total $63,650.

Calif., Stockton—E. D. Graham, clk., San Joaquin Co., to G. French, Jr., 615 Willow St., improving Fine Rd. (289), etc., 11,000 cu. yd. grading at $0.48 per cu. yd., 6,800 tons gravel $2.09, etc.

Ont., Bridgeburg—Curbing, guttering, sewers, sheet asphalt paving, 12,000 sq. yd. Jarvis St., to Godson Contg. Co., 203 Richmond St. W., Toronto, $70,300. Engrs. est. $75,000.

Ont., Burlington—Concrete paving various streets, to Grant Contg. Co., 47 Wellington St. E., Toronto, $40,000.

Ont., Leaside—Curbing and guttering, bitulithic concrete on concrete paving, 20,000 sq.yd., various streets, to Warren Bituminous Paving Co. of Ontario 54 University Ave., Toronto, $88,000; also concrete sidewalks, to R. H. McGregor, Sammon Ave., Toronto, $3,311.

Ont., Toronto—North York Twp, sheet asphalt on concrete paving, 1 mi. various streets, to Godson Contg. Co., Ltd., 203 Richmond St. W.; and to Ontario Amiesete Co., foot of Spadina Ave. Engr. est. $30,000.

B. C., South Vancouver — Resurfacing and asphaltic macadam widening, 4 mi. Marine Dr., 18 ft., to General Constr. Co. Ltd., 736 Granville St., Vancouver, $27,000. Engrs. est. $30,000.

Buildings—Commercial

Proposed Work

Mass., Boston — OFFICE — Woodstock Trust, c/o H. F. Kellogg, archt., 378 Stuart St., having preliminary plans prepared 14 story and basement, rein.-con., brick and steel, plain foundation, 89 Broad St. To exceed $150,000.

Mass., Easthampton — THEATRE — S. Rapalus, c/o Majestic Theatre, Cottage St., having plans prepared by G. P. B. Alderman & Co., 316 High St., Boston, 1 story and basement, brick and steel, plain foundation, Union St. $150,000. Noted Jan. 27.

Mass., Springfield — GARAGE — A. C. Behr, 44 Vernon St., having preliminary plans prepared by H. C. Hearne, 1387 Main St., rein.-con., Columbus Ave. $150,000, or more.

Conn., Hartford — THEATRE, STORE and OFFICE— D. Weinstock, 42 State St., soon takes bids 4 story and basement, 40 x 225 ft., brick and steel, plain foundation, State St. E. T. Wiley, 75 Pratt St., archt.

Conn., New Britain—BUSINESS—B. C. Porter Sons, 224 Main St., having plans prepared by D. K. Perry, 17 Court St., 5 story, rein.-con., brick and steel mercantile building, Main St. $150,000.

N. Y Brooklyn—HOTEL and THEATRE—Shelburne Constr. Co., S. Casceo, pres. Hotel Sherburne, Brighton Beach, having plans prepared by P. B. LaVelle, 505 5th Ave., New York City, hotel and theatre, Ocean Parkway and Breeze Ave. $4,000,000.

N. Y., Long Island City — OFFICE — Realty Constr. Corp., 307 7th Ave., New York City, having plans prepared by Shampan & Shampan, 188 Montague St., Brooklyn, 12 story, office building, Hunters and 41st Aves., here. $1,000,000.

N. Y., New York—APARTMENT—Four Hundred Seventy West End Avenue Corp. having plans prepared by G. F. Pelham, 570 7th Ave., 15 story apartment, on 120 x 149 ft. site, West End Ave. and 83rd St. $1,500,000.

N. Y., New York—APARTMENT—Nine Hundred Twelve 5th Avenue Corp., S. Solomon, pres., c/o Gronenberg & Leuchtag, archts., 1385 Bway., having preliminary plans prepared 15 story, brick and terra cotta, on 65 x 102 ft. site, 179-183 East 79th St. $475,000.

N. Y., New York—CLUBHOUSE—J. M. Howells, archt., 154 East 46th St., soon lets contract 25 story, 80 x 108 ft., brick and steel, Mitchell Pl. and 1st Ave., for Pan Hellenic House Assn., Inc., H. B. Hepburn, pres., 17 East 62nd St. To exceed $1,000,000. Noted Mar. 4.

N. Y., New York — HOTEL — Three Hundred Fifteen West End Ave. Corp. having plans prepared by R. T. Lyons, 49 East 49th St., 16 story, brick, limestone and terra cotta, 315 West End Ave. $1,000,000.

N. Y., New York—WOMEN'S PRISON—Dept. Corrections, Municipal Bldg., having plans prepared by B. W. Levitan, 1 Pershing Sq., 12 to 14 story, brick, 6th Ave., and Greenwich St. $2,000,000.

N. J., Annandale — REFORMATORY—State Building Comn., Court House, Trenton, having sketches made by Guilbert & Betelle, 20 Branford Pl., Newark, 2 and 3 story reformatory, here. $200,000. Noted Mar. 24.

N. J., Asbury Park — APARTMENT HOTEL — Casa Blanca Del Mar Co., 434 Cookman Pl., having plans prepared by W. F. B. Koelle, Otis Bldg., Phila., Pa., 12 story and basement, 200 x 300 ft. apartment hotel, here.

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Buildings—Commercial (Continued)

N. J., Bayonne—APARTMENT—B. Katz, 31 Wegman, Parkway, Jersey City, having plans prepared 5 story and basement, brick and steel, plain foundation, 49-51 Glwnwood Ave. $150,000. Private Plans.

N. J., Bradley Beach—HOTEL—Hotel La Rein Corp., M. Sparks, pres. Ocean Ave., having sketches made by L. Brooks, 65 Madison Ave., New York City, 6 story and basement, brick and steel, plain foundation, LaReine Beach and Ocean Ave. $500,000. Noted Sept. 1.

N. J., East Orange—APARTMENT—H. Racklin, c/o F. J. Cook, archt., 9 Clinton St., Newark, having plans prepared 4 story and basement, 70 x 170 ft., brick and steel, plain foundation, Washington and Hilyer Sts., here. $150,000.

N. J., Jersey City—APARTMENT—B. Katz (owner and contractor), 31 Wegman Parkway, having plans prepared 5 story and basement, 75 x 150 ft., brick and steel, plain foundation, 329-335 Claremont Ave. $250,000. Private plans.

N. J., Linden — WAREHOUSE and OFFICE—W. A. B. Bidrsall & Co., 44 Mechanic St., Newark, having plans prepared by A. F. Weber, City Hall, 2 story and basement, 100 x 250 ft., rein.-con., brick and steel, plain foundation, West Elizabeth Ave., here. $150,000.

N. J., Montclair—HOSPITAL—Montclair Community Hospital, 120 Harrison Ave. having sketches made by W. L. Walker, 103 Park Ave., New York City, 3 story and basement, brick and steel, plain and concrete pile foundation. $300,000. Noted June 2.

N. J., Newark—APARTMENT—Delavan Constr. Co., c/o E. Gerber, archt., 786 Broad St., having plans prepared 4 story and basement, brick and steel, plain foundation, 33 Romaine Pl. $150,000.

N. J., Newark—APARTMENT—Lincoln Ave. Holding Corp., c/o R. Bottelli, archt., 45 Branford Pl., having plans prepared 4 story and basement, 75 x 150 ft., brick and steel, plain fondation, 125 Lincoln Ave. $150,000.

N. J., Newark—APARTMENT—Wolcott Holding Co., c/o H. F. Clark, archt., 38 Clinton St., having plans prepared 5 story and basement, brick and steel, plain foundation, Stratford Pl. and Avon Ave. $175,000.

N. J., Newark — APARTMENTS — M. Weiss, 654 Lyons Ave., Irvington, having plans prepared by S. Cohen, 130 Branford Pl., seven 2 story and basement, 37 x 55 ft., brick and timber, plain foundations, Stecker St. $150,000.

N. J., Newark — CLUB — St. Josephs Council Italian Catholic Union, 118-7th Ave., having sketches made 3 story and basement, brick and steel, plain foundation, $150,000. Engineer and architects names witheld.

N. J., Orange—APARTMENT—Chanset Realty Co., c/o S. Cohen, archt., 130 Branford Pl., Newark, having plans prepared 5 story and basement, 45 x 115 ft., brick and steel, plain foundation, Central Ave. and Center St. $175,000.

N. J., Paterson — GARAGE and SHOWROOM—Cowega Realty Co., c/o A. E. Sleight, archt., Romaine Bldg., having revised plans prepared 2 story and basement, 215 x 250 ft. brick and steel, plain foundation, Allison Pl. $250,000.

N. J., Perth Amboy — APARTMENT—M. Balene, 3362 Hudson Blvd., Jersey City, having plans prepared by N. Welitoff, 3010 Hudson Blvd., Jersey City, 5 story and basement, brick and steel, plain foundation, High and Water Sts. $150,000.

N. J., Plainfield—APARTMENT—J. J. Schwartz, Inc., 240 Front St., having plans prepared by A. F. Amodio, 45 Branford Pl., Newark, 5 story and basement, 75 x 150 ft., brick and steel, plain foundation, $160,000.

N. J., Red Bank—HOTEL—Red Bank Hotel Co., Broad and Mechanic Sts., soon takes bids general contract, 9 story and basement, 125 x 400 ft., rein.-con., brick and steel, plain foundation, Riverside Ave., $650,000. N. Harris, 20 Branford Pl., Newark, archt Noted Sept 8

N. J., Ridgefield Park—APARTMENT—Regna Constr. Co., 229 23rd St., West New York, having plans prepared by F. Perna, 68 Hudson St., Hoboken, 4 story and basement, brick, steel and stone, plain foundation, here. $150,000.

N. J., South Orange—APARTMENT—C. Mariarty Constr. Co., c/o D. H. Trevor, archt., 45 Branford Pl., Newark, having plans prepared 4 story and basement, 125 x 175 ft., brick and steel, plain foundation, South Orange Ave., here. $400,000.

N. J., Teaneck (mail West Englewood)—APARTMENT—Billington Towers Corp., c/o G. W. Dexter, archt., Ft. Lee Trust Bldg., Main St., Ft. Lee, having plans prepared 4 story and basement, 85 x 150 ft., brick, plain foundation, West Englewood Ave., here. $150,000.

N. J., West New York — BANK and OFIFCE—First Natl. Bank of West New York, 440-16 St., having plans prepared by C. H. Muller, 322 15th St., brick and steel, plain foundation, Park Ave. and 19th St. $150,000.

Pa., Dormont (mail Pittsburgh)—THEATRE — Harris Amusement Co., Davis Theatre Bldg., Pittsburgh, having plans prepared by C. R. Giesler, Ferguson Bldg., Pittsburgh, 2 and 3 story and basement, irregular shaped, brick and steel, West Liberty Ave., here. $300,000.

Pa., Mayview—HOME and HOSPITAL Dept. Charities, Pittsburgh, having plans prepared by Erie Fisher Wood & Co., Hardy Hayes Bldg., Pittsburgh, 2 and 3 story and basement, 84 x 170 ft. city home and hospital, incl. attendants building, dormitory, cottages and superintendents home, near here. $2,500,000.

Maryland—HOSPITAL, etc.—Maryland Bd. Pub. Wks., Annapolis, plans new building for epileptic colony, Springfield State Hospital, $165,000; central power plant, kitchen and laundry, Maryland Training School for Boys, $125,000; new residence for warden, workshop, mechanical and electrical equipment for House of Correction, $180,000; enlarging and reconstructing building occupied by criminal insane at Spring Grove Hospital, Catonsville, $30,000; also gymnasium, auditorium and central heating plant at Frostburg State Normal School, $76,000.

W. Va., Huntington — HOSPITAL — Meanor & Handloser, archts., made plans and soon takes bids 5 story, 100 room, rein.-con., brick and steel addition to Kessler-Hatfield Hospital, 6th Ave. and 2nd St., for A. K. Kessler and H. D. Hatfield. $250,000.

O., Cincinnati—APARTMENT—M. Blossom, 521 Freeman Ave., having plans prepared by M. A. Kuller, 825 Rockdale Ave., 3 story and basement, brick and rein.-con., plain foundation, 8th St. $150,000.

O., Cleveland — STORE — Walker & Weeks, 2341 Carnegie Ave., soon let contract 3 story and basement, 34 x 26 ft., brick, steel and concrete, Euclid Ave. and East 22nd St., for A. J. Carlin, Euclid Hotel. $150,000.

O., Cleveland Heights (Warrensville P. O.)—COMMERCIAL, OFFICE and AUDITORIUM—J. F. Steffens, archt., 601 Fidelity Bldg., soon lets contract 1 and 2 story, 100 x 185 ft., brick, steel and concrete, Mayfield and Lee Rds., for Heights Temple Annex Co., c/o F. C. Becker, 1636 Lee Rd., Cleveland Heights. $175,000.

O., New Philadelphia — THEATRE—Thidelk Co. having plans perpared by C. Marr, modern theatre 1,800 seating capacity. $350,000.

O., Xenia—COTTAGES and HOSPITAL—Dept. Welfare, Columbus, J. E. Harper, dir. having sketches made by R. S. Harsh, 122 East Broad St., Columbus, 2 cottages and hospital, 2 story and basement, each, brick and concrete, here for Xenia Soldiers and Sailors Orphans Home. $160,000.

Ind., Washington — COURT HOUSE — Comrs. Davies Co. having preliminary plans prepared 3 story and basement, rein.-con., steel and stone court house. $300,000. R. M. Moren, aud. Engineer and architect not selected.

Ill., Belleville—HOTEL—Hotel Bevelleville Co., c/o Chamber of Commerce, soon takes bids 6 story and basement, 70 x 136 ft., rein.-con., brick and terra cotta, Public Sq. and South Illinois St. $500,000.

Ill., Chicago — APARTMENT — Russell Plans Corp., 450 East Ohio St., having plans prepared by W. Reichert & S. Finck, 35 South Dearborn St., 16 story and basement, 50 x 150 ft., brick and stone, 5421 Cornell Ave.

Ill., Harvey — HOTEL and STORE—Zimmerman, Saxe & Zimmerman, archts., 212 East Superior St., Chicago, made plans and soon takes bids 7 story and basement, 75 x 125 ft., rein.-con., brick and stone, Center Ave. near 154th St., here, for P. J. Telling. $300,000.

Mo., Jefferson City—OFFICE—State Hy. Comn., T. H. Cutler, ch. engr., soon takes bids 3 story and basement, rein.-con., brick and stone, South Capitol Ave. near Jefferson St., $350,000. Noted Apr. 28.

Mo., Poplar Bluffs—COURT HOUSE—Butler Co., C. E. Davenport chn. com., new election soon $265,000 bonds, 3 story court house. Former election defeated. Noted June 2.

Mo., St. Louis—APARTMENT and GARAGE—J. L. Woods, Arcadia Dance Hall, 3517 Olive St., having preliminary plans prepared by P. J. Bradshaw, International Life Bldg., 100 room, rein.-con., brick, stone and terra cotta, on 125 x 144 ft. site, Olive St. and Theresa Ave. $350,000.

Tex., Brenham—HOSPITAL—Washington Co., defeated $150,000 bonds, hospital S. D. Low, Brenham, co. judge.

Tex., Brownsville—AUDITORIUM—City plans 2 story auditorium. $500,000.

Tex., Gainesville—HOTEL—W. C. Hedrick, archt., 1005 1st Natl. Bank Bldg., Fort Worth, soon takes bids 6 story, [illegible] x 125 ft. hotel, here, for Turner Bros. $250,000.

Tex., Laredo — OFFICE — A. M. Bruni having plans prepared by Adams & Adams, c/o Builders Exch. Bldg., 6 story and part basement, rein.-con. and brick, plain foundation. $150,000.

Tex., San Angelo—HOTEL—R. A. Stokes & S. A. Ellzey, Duncan, Okla., had plans prepared 4 story and basement, rein.-con., brick and hollow tile, plain foundation, here. $250,000. Private plans.

Okla., Fairview — COURT HOUSE — Major Co. having plans prepared by Tonini & Bramblet, 416½ West Main St., Oklahoma City, rein.-con. and brick, plain foundation, Main St. $150,000. Noted July 23, 1925.

Okla., Oklahoma City — EXCHANGE and OFFICE—Southern Bell Telephone Co., 11th and Pine Sts., St. Louis, Mo., soon lets contract superstructure 14 story, 100 x 140 ft., rein.-con., brick, stone and steel, 3rd St. and Bway, here. Archts. total est. $3,000,000. I. R. Timlin, c/o owner, and Layton, Hicks & Forsyth, 906 Braniff Bldg., archts. Noted July 14.

Arizona and California—HOTELS—L. J. Sweeney, et al., c/o M. E. Durfee, archt., Commercial Exchange Bldg., Los Angeles, Calif., plans ten 2 story, Spanish type tourist hotels, in various cities in Arizona and California. $500,000.

Wash., Seattle—STORE—Standard Furniture Co., B. Schoenfeld, pres., 2nd Ave. and Pine St., plans 3 story, 140 x 180 ft., fireproof, 47th St. and Brooklyn Ave. $150,000. Private plans.

Wash., Seattle—STORE—F. McDermott, 2nd and Union Sts., having plans prepared by J. Graham, Dexter Hartman Bldg., Bon Marche Department Store, 5 story and basement, 535,000 sq. ft. floor space, 4th Ave. and Pine St. $2,000,000.

Wash., Seattle — WAREHOUSE—Standard Furniture Co., B. Schoenfeld, pres., 2nd Ave. and Pine St.; plans 4 story, 120 x 185 ft., fireproof, Boren Ave. and Mercer St. $250,000. Private plans.

Calif., Los Angeles — APARTMENT — J. M. Haenke, archt., Subway Terminal Bldg., preparing preliminary plans 4 story and basement, brick, Serrano Ave. $150,000. Owners' name withheld.

Calif., Los Angeles — APARTMENT — Seventh & Normandie Corp., G. Edwards, pres., Edwards & Wildey Bldg., plans completing 8 story, 122 x 220 ft., rein.-con., 715 Normandie St. $200,000. L. Callahan & Sons, 718 Edwards & Wildey Bldg., archts.

Calif., Los Angeles—APARTMENT—L. L. Jones, archt., Douglas Bldg., preparing plans 5 story, 113 x 120 ft., brick, Normandie St. near 7th St. Owners name withheld.

Calif., Los Angeles—APARTMENT—W. W. Campbell, archt., 3036½ West 10th St., preparing plans 4 story and basement, 99 x 146 ft., brick, Wilshire Dist. $200,000. Owners name withheld.

Calif., Los Angeles—HOTEL—Dana Point Syndicate having plans prepared by C. A. Hill, 2699 Beechwood Dr., 3 story, 150 x 250 ft., rein.-con., at Dana Point. To exceed $150,000.

Calif., Riverside—Riverside Y. W. C. A. having plans prepared by J. Morgan, Merchants Exch. Bldg., San Francisco, and soon takes bids 1 and part 2 story, rein.-con. building. $150,000. Noted June 23.

Calif., Sacramento — THEATRE — J. H. Stephens, et al., 2531 H St., having plans prepared by G. A. Lansburgh, 140 Montgomery St., San Francisco, theatre, 2,500 seating capacity, J St. $700,000.

Calif., San Fernando—MOTION PICTURE STUDIO—Sterling Products Co., J. Rock, pres. Universal Studios, Los Angeles, plans motion picture studio, Olive Ave. near California St. $500,000. Engineer and architect not selected.

Ont., Ottawa — HOTEL — Blackburn Estate plans hotel, Sparks St. $500,000.

Ont., Ottawa—OFFICE—Wellington Investment Co., Ltd., having plans prepared by J. A. Evart, Jackson Bldg., Bank St., and soon takes bids 10 story and basement, rein.-con. brick and steel, plain foundation, Wellington St. $450,000.

Ont., Toronto — APARTMENT — F. J. Reynolds, 103 Merrick Ave., having plans prepared by H. J. Chown, 20 Wayland Ave., 3 story and basement, brick, stone and tile, concrete and brick foundation, Queen St. E. and Claude Ave. $160,000.

Ont., Toronto—APARTMENT—H. Davidson, c/o Kaplan & Sprachman, archts., 305

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Buildings—Commercial (Continued)

Dundas St., having plans prepared 3 story and basement, brick, stone and tile, Queen St., near Silverthorn Ave. $150,000.

Bids Desired

Mass., Boston — APARTMENT — See "Contracts Awarded."

Mass., Boston—QUARTERS—Sept. 28, by City, Hospital Dept., 3 story and basement, brick, plain foundation, Harrison Ave. $150,000. J. H. Ritchie & associates, 250 Stuart St., archts. Noted Aug. 18.

Mass., Dochester (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Greenfield—APARTMENT — See "Contracts Awarded."

Conn. Meriden — OFFICE — J. A. Bergeron, 21 Sylvan Ave., taking bids 4 story, brick and steel, West Main and Maple Sts. $150,000. L. Hamilton, 119 West Main St., archt. Noted July 21.

Conn., New Haven—LODGE—Lodge of Elks, S. E. Hoyt, chn. building comn., 195 Church St., taking bids 6 story, brick and steel, incl. bowling, billiard and sleeping rooms, Crown St. $300,000. A. W. Boylen, 30 Whitney Ave., archt. Noted May 12.

Conn., Norwich—WARD—Sept. 19, by F. S. Wilcox, supt. Norwich Hospital, two 3 story, brick and steel additions to state hospital. $400,000. Cudworth & Thompson, Disco Bldg., archts. Noted June 9.

N. Y., Brooklyn—HOSPITAL—Lord & Hewlett, archts., 2 West 45th St., New York City, taking bids 5 story, brick, Atlantic and Albany Aves., for St. Johns Hospital, 1521 Atlantic Ave., E. M. Stires, pres. $1,600,000. E. E. Seelye, 101 Park Ave., New York City, consult. engr. H. G. Wright, 289 4th Ave., New York City constr. engr.

N. Y., Scarsdale — APARTMENT — See "Contracts Awarded."

N. Y., Rochester—THEATRE and COMMERCIAL—Sept. 26, by Graven & Mayger, archts., 180 North Michigan Ave., Chicago, Ill., superstructure 3 story and basement theatre and commercial building, here, for Banorge Corp., New York City. Total $1,500,000.

N. J., Elizabeth — APARTMENT—See "Contracts Awarded."

N. J., Englewood — APARTMENT — See "Contracts Awarded."

N. J., Irvington (br, Newark)—APARTMENT—See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awarded."

Pa., Phila.—HOSPITAL—Sept. 22, by Thomas, Martin & Kirkpatrick, archts, 220 South 16th St., 3 story and basement, 45 x 120 ft., rein.-con., brick and steel maternity hospital, plain foundation, Corinthian and Girard Sts., for Lankenau Hospital. $150,000.

Pa., Phila.—SALE and SERVICE—Sept. 16, by P. S. Tyre, archt., 114 South 15th St., 2 story, 95 x 118 ft., rein.-con. and brick, plain foundation, 57th and Walnut Sts., for Ware Bros., c/o architect.

Pa., Pittsburgh—APARTMENT HOTEL and STORE—P. M. Julian, archt., 917-15th St., N. W., Wash., D. C., taking bids 10 story and basement, 115 x 200 ft., brick or terra cotta, here. $2,000,000. Owner's name withheld.

Md., Bridewell (mail Jessups)—CELL HOUSE—Sept. 22, by Bd. Welfare, Union Trust Bldg., Baltimore, 57 x 268 ft., brick and steel wing, 60 ft. high, $525,000. T. W. Pietsch, Amer. Bldg., Baltimore, archt. Noted June 23.

Tenn., Chattanooga—GARAGE—Sept. 29, by C. T. Jones, archt., James Bldg., 4 story and basement, 50 x 100 ft., rein.-con. and brick, for Broad Street Garage Co., $150,000. Noted Aug. 25.

O., Cleveland—THEATRE—Midwest Properties Co., S. H. Stecher, pres., 307 Union Bldg., taking bids and opens same about Sept. 15, 1 story and basement, brick, steel and concrete, 3,000 seating capacity, St. Clair Ave. and East 106th St. $400,000.

Ill., Chicago—BANK—Sept. 21, by C. S. Frost, archt., 105 West Monroe St., 8 story and basement, 28 x 129 ft., granite, brick and steel addition, 158-160 West Monroe St., for Northern Trust Co., Monroe and La Salle Sts. $750,000.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Oakland — PORTAL—G. Gross, clk. Alameda Co., taking bids and open same about Sept. 20, portal buildings for Oakland-Alameda Estuary tube. $150,000. H. H. Meyers, Kohl Bldg., San Francisco, archt.

Calif., Pasadena—APARTMENT—A Hill, archt., 301 Chester Williams Bldg., Los Angeles, taking sub-bids 4 story and basement, approximately 60 x 160 ft., brick, steel and stucco, Moreno St., here, for A. Fisher, c/o architect. Noted Aug. 11.

Calif., San Francisco—APARTMENT—See "Contracts Awarded."

Contracts Awarded

Mass., Boston—APARTMENT—M. and M. Carlin, 11 Beacon St., will build 2 units each 3 story and basement, 60 x 85 ft., brick, plain foundation, Byner St. and Huntington Ave., by day labor. Archts. est. $150,000. Eisenberg & Feer, 46 Cornhill, Boston, archts.

Mass., Boston—STORE and OFFICE—Hemenway Estate, c/o Shepard & Stearns, archts., 65 Franklin St., 6 story and basement, brick, steel, granite and limestone, plain foundation, 120-126 Newbury St., to W. A. and H. A. Root, 250 Stuart St., Boston. To exceed $150,000. Noted Aug. 18.

Mass., Boston—TEMPLE, etc.—Congregational Adath Israel Temple, H. Levi, rabbi 602 Commonwealth Ave., general contract 1 and 3 story and basement, irregular shaped, brick and stone temple, administration building wing, and community wing, Riverway, Longwood Ave., Berners and Plymouth Sts., to C. S. Cunningham Constr. Co., 80 Boylston St., plumbing, to P. W. Donahue, 170 Purchase St.; also heating and ventilating, to P. A. Dolan Co., 237 Bway. Archts. est. $1,000,000.

Mass., Brockton—CLUB—H. G. Sylvester, chn. Building, Com. Serville Council Knights of Columbus, 2 story and basement, 50 x 135 ft., brick, plain foundation, West Elm St., to T. F. Crowell & Son, 19 South St.

Mass., Dorchester (br. Boston)—APARTMENTS——P. Markovsky, 27 School St., Boston, will build 3 story and basement, brick and stone, plain foundation, 147 Columbia Rd., here. $200,000. Work will be done by separate contracts. S. E. Moffie, 51 Cornhill, Boston, archt.

Mass., Gardner—BANK — Gardner Cooperative Bank, Main St., 1 story and basement, rein.-con., brick and steel, plain foundation, Pleasant St., to J. W. Bishop Co., 109 Foster St., Worcester. Archts. est. $150,000. Noted Apr. 14.

Mass., Greenfield—APARTMENT—G. H. Reed, Montague City, will build 3 story and basement, 65 x 180 ft., brick and steel, plain foundation, Franklin St., here, $150,000. Work will be done by separate contracts. Kendall, Taylor & Co., 142 Berkley St., Boston, Mass., archts.

Mass., Greenfield—STORE and OFFICE—H. Cohn, Madison Circle, 2 story and basement, 75 x 110 ft., brick, plain foundation, Main St., to T. Gass, 259 Silver St., Springfield. Archts. est. $150,000. Noted Aug. 25.

Mass., Lawrence—BANK—J. E. Allen, archt., 283 Essex St., 1 and 2 story and basement, rein.-con., brick and steel, plain foundation, Essex and Hampshire Sts., to E. W. Pitman Co., 301 Essex St., for Bway. Savings Bank, W. E. Rowell, pres., 522 Essex St. Archts. est. $400,000. Noted Aug. 18.

Mass., Newton (Ind. br. Boston)—HOSPITAL, NURSES HOME and POWER PLANT—Newton Hospital, E. E. Kelsey, pres., Woodlawn St., 5 story and basement, irregular shaped, brick, steel and limestone, plain foundation, Washington and Beacon Sts., to Holt-Fairchild Co., 7 Water St., Boston. Archts. est. $1,500,000. Noted Dec. 30.

Mass., Waltham (br. Boston)—BANK—Waltham Natl. Bank, 1 story and basement, rein.-con., brick and steel, plain foundation, Moody and Brabch Sts., to A. A. Walsh, 211 Moody St. Archts. est. $150,000. Noted Aug. 25.

R. I., Providence—GARAGE, STORE and REPAIR SHOP—J. Ernstof, 94 Dorrance St., 1 and 2 story, brick and steel, plain foundation, Westminster and Washington Sts., to Balchin Constr. Co., 75 Westminster St. Archts. est. $50,000.

Conn., New Britain—BUSINESS—L. R. Raphael, 382 Main St., 5 story and basement, brick and steel, Main St. to S. C. Poriss & Co., 175 Enfield, Hartford. Archts. est. to exceed $150,000. Noted Aug. 11.

Conn., Stamford—APARTMENT—D. C. Ferdinand, 102 Crystal St., 3 story, 70 x 160 ft., rein.-con. and brick, Glenbrook St., to S. Ruderman, 32 Arthur St., New Haven. Archts. est. $150,000.

N. Y., New York — APARTMENT—V. Astor, 23 West 26th St., 15 story, brick and limestone, 86th St. between East End Ave. and Carl Schurz Park, to George A. Fuller Co., 949 Bway. Archts. est. approximately $1,000,000.

N. Y., New York—LOFT—Adanfa Constr. Co., 14 story, 82 x 100 ft., rein.-con., 343 West 52nd St., to Turner Constr. Co., 420 Lexington Ave.

N. Y., New York—SERVICE STATION—Ortcar Realty Corp., 6 story, 100 x 200 ft., rein.-con., 211 West 61st St., to Turner Constr. Co., 420 Lexington Ave.

N. Y., Scarsdale — APARTMENT — Eton Hall, Inc., 12 East 41st St., New York City, will build 6 story, 110 x 113 ft., brick, Bronx River and Parkway, Scarsdale Manor. $280,000. Work will be done by separate contracts under supervision G. A. Bagge & Son, archts., 157 East 44th St., New York City.

N. J., Asbury Park—H. E. Warren & L. E. Smith, archts., 247 Park Ave., New York City, 4 story, 100 x 157 ft., rein.-con., brick and steel, plain foundation, Monroe Ave., here, to I. R. Taylor, Asbury Park, for Y. M. C. A., 347 Madison Ave., New York City. Approximately $350,000. Noted May 12.

N. J., Elizabeth — APARTMENT—Holberg & Posnock, 1141 Warren Ave., Roselle, will build 4 story and basement, 60 x 110 ft., brick and steel, plain foundation, Jersey Ave. and Berwick St., $150,000. Work will be done by separate contracts. L. Kasoff, 164 Market St., Newark, archt. Noted Aug. 25.

N. J., Elizabeth—APARTMENTS—Fleetwood Realty Co., 340 Pennington St., will build two 4 story and basement, brick and steel, plain foundations, Stiles and Chilton Sts., $150,000. Work will be done by separate contracts. A. J. Silberstein, 60 Park Pl., Newark, archts.

N. J., Englewood—APARTMENT—Busch Bros., 61 West Palisade Ave., will build 5 story and basement, brick and steel, plain foundation, 98-100 Charles St. $150,000. Work will be done by separate contracts. G. W. Harvey, 186 East Palisade Ave., archt.

N. J., Irvington (br. Newark)—APARTMENTS—Rutgers Realty & Constr. Co., 20 Clinton St., Newark, will build sixteen 2 story and basement, 35 x 55 ft., brick, plain foundations, Columbia and Munn Aves., here. $270,000. Work will be done by separate contracts. V. H. Strombach, 1243 Springfield Ave., archt.

N. J., Newark — APARTMENT — H. Cohen, 45 Branford Pl., will build 5 story and basement, 50 x 100 ft., brick and steel, plain foundation, 6th Ave. and 9th St. $150,000. Work will be done by separate contracts. L. Kasoff, 164 Market St., Newark, archt. Noted Aug. 18.

N. J., North Bergen (br. Weehawken)—APARTMENT—R. Francesconi, 39 18th St., West New York, will build 5 story and basement, brick, steel and stone, plain foundation, Bergenline Ave. and 32nd St. $150,000. Work will be done by separate contracts. G. Willaredt, 411 23rd St., West New York, archt. Noted Aug. 11.

N. J., Ridgewood—HOSPITAL—Bergen Co. Hospital, Paramus Rd., general contract 3 story and basement, brick and steel, plain foundation, Bergen Pines, to F. and C. Haerter, 769 Dewey Ave., West New York, $89,024. Noted May 5.

Pa., Phila.—APARTMENT—W. J. Carlisle, 1405 Tioga St., 3 story and basement, 30 x 193 ft., and 30 x 80 ft., brick and steel, plain foundation, 3213-19 North 17th St., to M. P. Wells, 3229 North 17th St. Archts. est. $190,000.

Pa., Pittsburgh—CLUB—Keystone Athletic Club, Westinghouse Bldg., general contract 21 story and basement, 46 x 100 x 100 ft., brick, steel and terra cotta, 3rd Ave. and Wood St., to Mellon Stuart Co., Oliver Bldg. Archts. est. $1,900,000.

O., Cincinnati—APARTMENT HOUSE—Auburn Apartment Co., 900 Neave Bldg., 3 story and basement, 100 x 218 ft., brick and rein.-con., plain foundation, Auburn St., to F. M. Erwin, 900 Neave Blvd., $200,000.

O., Cleveland—BANK, COMMERCIAL and THEATRE—International Building & Loan Co., 6285 St. Clair Ave., 2 story and basement, 91 x 170 ft., brick, steel and concrete, East 185th St. and Kildeer Ave., to Satkovic Bros., 6411 St. Clair Ave. Archts. est. $200,000.

Ill., Chicago—APARTMENT—R. B. Kurzon, archt., 105 West Monroe St., masonry and concrete contract 14 story and basement, 50 x 160 ft., 434 Roscoe St., to A. Lindstrom Co., 77 West Washington St.; cut stone, to F. Karge, 5844 South Bishop St., for Four Hundred and Thirty-four Building Corp., c/o architects. Noted June 27.

Ill., Chicago—HOTEL—H. Dalsey, archt., 64 West Randolph St., masonry and concrete contract 5 story, 91 x 128 ft., rein.-con., brick and terra cotta, 835-41 Sheridan Rd., to W. G. McNulty & Bros., 58 East Washington St.; stone, to Fluck Cut Stone Co., 1235 East 74th St., for Sher-Lane Building Corp., c/o archtect. Archts. est. $500,000. Noted Apr. 14.

Ill., Chicago—OFFICE—Graven & Mayger, archts., 180 North Michigan Ave., general contract 23 story and basement, 91 x 96 ft., brick and terra cotta, La Salle and Washington Sts., to Lundoff-Bicknell Co., 180 North Michigan Ave., for Buildings Development Co., 160 North La Salle St., C. L. Schwerin, pres.

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Buildings—Commercial (Continued)

Mo., Maplewood (br. St. Louis)—APARTMENT HOTEL—Brown Realty Co., 7161 Manchester Ave., will build 2 story and basement, 125 x 135 ft., rein.-con., brick and terra cotta, 7167-7171 Manchester Ave., by day labor. $150,000.

Calif., Fresno—HOSPITAL—Sisters of Holy Cross, South Bend, Ind., rein.-con. here, to Barrett & Hilp, 918 Harrison St., San Francisco, $250,000. Noted Sept. 1.

Calif., Los Angeles — APARTMENT — West Coast Income Properties, Inc., 1544 Glendale Blvd., will build 4 story and basement, brick, South Beacon St., by day labor. $150,000.

Calif., Los Angeles — APARTMENT — H. L. Soper, 5 story, 90 x 120 ft., brick and steel, Normandie St. between 7th and 8th Sts., to Hennessy Bros. & Co., Inc., 701 Lane Mortgage Bldg., $350,000.

Calif., Los Angeles—HOTEL—Central Investment Co., Grand Ave. near 5th Ave., 12 story and basement, 137 x 210 ft., rein.-con., brick, terra cotta and steel addition, to Scofield Eng. Constr. Co., 1100 Pacific Finance Bldg., $2,250,000.

Calif., San Francisco — APARTMENT — Marian Realty Co., 110 Sutter St., will build 7 story and basement, rein.-con. and steel, Franklin and Bway. Sts., by day labor. $250,000. D. D. Stone, 354 Hobart St., Oakland, archt.

Calif., San Francisco—APARTMENT—Veyhle & Collins, 301 Humboldt Bank Bldg., will build 6 story and basement, brick and steel, Ellis St., near Hyde St., by day labor. $150,000.

Calif., San Francisco — DEPARTMENT STORE—I. Magnin Co., Stockton and O'Farrell Sts., 1.800 tons steel for 8 story and basement addition, to U. S. Steel Products Co., Russ Bldg. Archts. total est. $400,000.

Calif., Santa Monica — CLUB — Ford & Becker, 607 South Western Ave., Los Angeles, 2 story, 161 x 300 ft., Crystal Pier, here, to Fortine & Mejkle, 509 South Western Ave., Los Angeles, $350,000.

Calif., Stockton — CHURCH — First Church of Christ Scientist, brick and timber, Center and Flora Sts., to Lewis & Green, Commercial & Savings Bank Bldg., approximately $165,500.

Ont., Cornwall — HOTEL — Community Hotel Co., 5 story and basement, rein.-con., brick and steel, here, to C. Holbrook & Son, 408 Elgin St., Ottawa, $150,000.

Ont., Toronto — APARTMENT — Independent Builders, Ltd., Temple Bldg., general contract 3 story and basement, rein.-con., brick and steel, plain foundation, Bloor and Markham Sts., to L. Coldoff & Co., 313 Grace St. Archts est. $160,000.

Ont., Toronto—APARTMENT—M. J. Ingram, Kingston Rd., masonry contract 3 story and basement, rein.-con., brick and steel, plain foundation, Woodbine Ave. and Queen St. E., to J. J. Bartlett & Co., 94 Barrington Ave.; carpentry to G. Couchmar., 166 Pickering Ave.; plumbing and heating, to G. Beavers, 210 Bingham Ave. Engrs. est. $250,000. Steam heating, etc., to be installed.

Buildings—Industrial

Proposed Work

Mass., Arlington (br. Boston) — SUB-STATION — Edison Electric Illuminating Co., 39 Boylston St., Boston, having plans prepared by Bigelow & Wadsworth, 120 Tremont St., Boston, 2 story, 35 x 110 ft., brick electric sub-station, plain foundation, here.

Mass., Boston—SERVICE—Packard Motor Car Co., East Grand Blvd., Detroit, Mich., having sketches made by A. Kahn, Inc., Marquette Bldg., Detroit, Mich., 1 story, rein.-con. and steel addition, plain foundation, Commonwealth Ave., here.

Mass., Malden—SALESROOM and SHOP—Palmer-Muller Co., 60 Franklin St., having sketches made by C. F. Springall, 84 Sprague St., 2 story, brick, plain foundation, Franklin St. $40,000.

R. I., Woonsocket—DYE HOUSE—Florence Dye Wks., 53 South Main St., plans dye house addition. $40,000 or more. Private plans.

Conn., Springdale — MILLS — Stamford Rolling Mills having plans prepared by Fletcher-Thompson, Inc., 542 Fairfield Ave., Bridgeport, rebuilding 1 story, 112 x 215 ft. steel mills, recently destroyed by fire. $40,000.

N. J., New Brunswick—POWER HOUSE—Pub. Serv. Corp., 80 Park Pl., Newark, having plans prepared by Pub. Serv. Production Co., 80 Park Pl., Newark, 2 story, brick and steel addition plain foundation, Albany St., here. $40,000.

Pa., Phila.—CIGAR FACTORY—A. Freeman, archt., 29 West 34th St., New York City, soon lets contract 8 story and basement, 119 x 125 ft., rein.-con. and brick addition, plain foundation, 9th and Columbia Sts., here, for Columbia Realty Co., 9th and Columbia Sts. $650,000.

Pa., Pittsburgh — LAUNDRY — P. & O. Laundry Co., Neville St., having plans prepared 2 story and basement, 61 x 134 ft., rein.-con., brick and steel, Neville St. $80,000. Private plans.

Maryland—POWER PLANT, LAUNDRY and WORKSHOP—See "Buildings—Commercial."

Minn., Rochester—BAKERY—Rochester Baing Co. having plans prepared by L. B. Bersbach, Northwestern Natl. Life Bldg., Minneapolis, 3 story and basement, 86 x 130 ft., rein.-con., brick, stone and steel here. $75,000.

Mo., St. Louis—LAUNDRY—Holloran & Klaus Co., 1517 Clark Ave., having plans prepared by O. J. Krieg, 821 Wainwright Bldg., altering and constructing 2 story and basement, 50 x 91 ft., rein.-con., brick and steel addition. $60,000.

Ark., White Cliffs—CEMENT MILL—Lime Products Co., A. B. Banks, pres., Home Insurance Bldg., Little Rock, will not construct 500,000 bbl. per yr. cement mill, etc., here. Project abandoned. Lund Engr. Co., Home Insurance Bldg., Little Rock, engrs. Noted June 23.

Tex., Dallas—REFRIGERATION PLANT—Stevenson Eng. Co., c/o F. O. Stevenson, pres., Natl. Bank Bldg., Ft. Worth, soon takes bids ammonia plant 1,000 tons p.d. with mains, laterals, etc., here. $1,000,000.

Tex., Fredericksburg — CREAMERY—Co-operative Creamery, c/o A. Neffendorf, Fredericksburg, plans creamery plant $40,000.

Tex., Groesbeck—BRICK PLANT—Groesbeck Standard Brick Co., soon takes bids brick plant. $50,000.

Tex., Houston — WAREHOUSE — A. S. Bergendahl, archt. and engr., Union Natl. Bank Bldg., soon takes bids terminal warehouse, incl. space for 6 ships, dredging to depth 30 ft., Amer. Fruit Corp., Post-Dispatch Bldg. $1,000,000.

Calif., Richmond—CHEMICAL PLANT—Winehaven Chemical Co., 433 California St., San Francisco, having preliminary plans prepared by Oscar Krenz Copper & Brass Wks., 4th and Bryant Sts., San Francisco, plant addition, here. $300,000 incl. equipment.

Ont., Sarnia — DISTILLERY — Sarnia Cognac & Distilling Co. plans 1, 2 and 3 story, brick, steel and stone additions, concrete foundations. $500,000. Engineer and architect not selected. Brick walls, wood and concrete flooring, timber roofing.

Ont., Toronto—PAPERBOARD MILL—Canadian Paperboard Co., HO2 Seigneurs St., Montreal, Que., plans mill, incl. machine building, 350 ft. long, beater building, machine shop, offices, boiler plant, engine building and pump room, mostly 1 story, concrete, here. Kerry & Chase, Ltd., Confederation Life Bldg., Toronto, engrs. $500,000.

Bids Desired

Mass., Brockton—TRANSFORMER STATION—See "Contracts Awarded."

Mass., Chelsea (br. Boston) — REPAIR and SERVICE GARAGE — See "Contracts Awarded."

Mass., Jamaica Plain (br. Boston)—KNITTING MILL—Owner, c/o J. Murray, archt., 101 Tremont St., Boston, taking bids 1 story and basement, 65 x 160 ft., brick, concrete foundation, here. $40,000.

Mass., Newton (Ind. br. Boston)—FACTORY—See "Contracts Awarded."

N. Y., Albany — LABORATORY — Sept. 29, by Commissioner Health, Dept. Health, Div. Laboratories & Research, constructing west wing, west and east stable units, power house and tunnels. S. W. Jones, Capitol, state archt.; adv. E. N.-R. Sept. 15. Noted June 23.

N. J., Bayonne—ICE PLANT—See "Contracts Awarded."

Ind., Evansville — SHOP and WAREHOUSE—See "Contracts Awarded."

Ark., Little Rock—PLANING MILL—See "Contracts Awarded."

Ark., White Cliffs — CEMENT MILL — See "Contracts Awarded."

Tex., Waco—BAKERY—See "Contracts Awarded."

Contracts Awarded

Me., Rockland — GARAGE and REPAIR SHOP—New England Pub. Serv. Corp., G. C. Welsh, Augusta, 1 story, rein.-con., plain foundation, here, to J. A. Greenleaf & Sons, 20 Washington St., Auburn. Archts. est. $40,000.

Mass., Brighton (br. Boston) PLANT—Boston Ice Co., 110 State St., 1 story, 100 x 170 ft., brick and limestone, North Beacon and Hichborn Sts., to Scully Co., Kendall Sq. Bldg., Cambridge.

Mass., Brockton—GARAGE and WELDING SHOP—P. Wychunas, 50 Ames St., Montello, 1 story, rein.-con., plain foundation, Montello and Ames Sts., here, to P. E. Person, 2 Pauline Ave. Archts. est. $10,000. Noted July 21.

Mass., Brockton—TRANSFORMER STATION—Edison Electric Illuminating Co., A. F. Nelson, mgr., 42 Main St., will build 1 story brick, Ames St. Work will be done by separate contracts. Private plans.

Mass., Cambridge (Boston P. O.)—REPAIR and SERVICE GARAGE—McSorley Bros., 456 Bway., 1 story, rein.-con., plain foundation Bway., to M. W. Ryan, 763 Massachusetts Ave. Archts. est. $45,000. Noted Aug. 4.

Mass., Chelsea (br. Boston) — REPAIR and SERVICE GARAGE — H. B. Cloper, 472 Bway., will build 1 story, 70 x 175 ft., brick, concrete and stone, 62 Bway. $50,000. Work will be done by separate contracts. Eisenberg & Feer, 46 Cornhill, Boston, archts.

Mass., Everett — LAUNDRY and GARAGE — Glendale Laundry, Inc., 749 Bway., 2 story, 120 x 150 ft., rein.-con., brick and steel, plain foundation, to E. J. Rappoli, 32 Moulton Rd., Arlington. Engrs. est. $100,000. Noted Aug. 25.

Mass., East Bridgewater—FACTORY—Fields Bros. Shoe Co., W. Field, in charge, North Middleboro, 1 story, 95 x 175 ft., brick, concrete foundation, near Depot, here, to E. L. Morrill & Co., 17 Shell Pl., Brockton. Archts. est. $40,000.

Mass., Holyoke — PLANT — General Cleansers & Dyers, Inc., 403 High St., 1 story and basement, 520 x 75 ft., brick, plain foundation, 361 South St., to W. K. Traquir, Harrison St., Holyoke. Noted Aug. 4.

Mass., Lowell—PUBLISHING PLANT—Courier-Citizen Co., Kearney Sq., W. Spence, treas., altering 4 story, brick, concrete press foundation, incl. steel bridge connecting 2 buildings over canal, to F. S. Meloy, 9 Central St. Archts. est. $40,000. Noted Aug. 4.

Mass., Medford (br. Boston)—REPAIR and SERVICE GARAGE—L. Risman, 85 Central St., 1 story brick and steel addition, plain foundation, 14,000 sq.ft. floor space, Salem St., to Frankini Bros. Co., Inc., 30 Mystic Ave. Archts. est. $50,000.

Mass., Newton (Ind. br. Boston)—FACTORY—New England Concrete Pipe Corp., 79 Milk St., Boston, will build 1 and 1½ story, 160 x 160 ft., concrete, plain foundation, 109 Needham St., here, by day labor. To exceed $40,000. Private plans.

BLDG.

Mass., Somerville (br. Boston)—SERVICE—Edison Electric Illuminating Co., 39 Boylston St., Boston, altering and constructing 1 story, brick and steel addition, plain foundation, Willow St., here, to J. F. Fitzgerald Constr. Co., 38 Chauncy St., Boston.

Mass., Springfield — PLANT — Package Mchy. Co., 1 story and basement, 37 x 112 ft. plant addition, to F. T. Ley & Co., Inc., 1215 Main St.

Mass., Wakefield—HEATING PLANT—A. G. Walton, 108 Main St., 1 story, rein.-con. addition, plain foundation, to C. Doyle, Jordan Ave.

Mass., Webster—MILL — Stevens Linen Wks., Dudley St., altering and constructing 2 story, basement and tower, 55 x 155 ft., rein.-con., brick and stone addition, plain foundation, Dudley St., to J. W. Bishop Co., 683 Atlantic Ave., Boston. Archts. est. $100,000. Noted Aug. 25.

R. I., Providence—SALES, SERVICE and REPAIR SHOP — Beacon Warehousing Trust, 79 Milk St., Boston, 1 story, 100 x 200 ft., brick and steel, plain foundation, North Main and Caroline Sts., here, to W. A. Sanborn, 79 Milk St., Boston, Mass.

Conn., Greenwich—PRINTING PLANT—W. Higginson, archt., 101 Park Ave., New York City, 1 story, 55 x 70 ft., and 60 x 200 ft., rein.-con., steel and concrete, Post Rd., here, to E. & F. Constr. Co., 94 Wells St., Bridgeport, for Conde Nast Publishing, Inc. Archts. est. $75,000.

N. J., Elizabeth—FACTORIES—H. V. Walker, 17 John St., New York City, general contract 1 and 3 story, brick and steel, plain foundations, Division St., to Wilhelms Constr. Co., 119 Division St. Archts. est. $40,000.

Pa., Allentown — DYE PLANT and POWER HOUSE—Arcadia Mills, 74th St. and Pittston Ave., 1 story, 90 x 150 ft. dye plant, and 1 story, 70 x 70 ft. power house, rein.-con., brick and steel, plain foundations, to Ochs Constr. Co., 440 Wire St.

Buildings—Industrial (Continued)

Pa., Phila.—BAKERY, GARAGE, etc.—C. B. Comstock, archt., 110 West 40th St., New York City, 3 story and basement 220 x 310 ft. bakery, 1 story and basement, 61 x 191 ft. garage, and 2 story and basement, 93 x 189 ft. stable, etc., all rein.-con. and brick, Godfrey St. and Rising Sun Ave., here, to W. Steele & Sons Co., 15th and Cherry Sts., for General Baking Co., Broad St., Butler. Noted Sept. 1.

Pa., Phila.—MILL—Penn Worsted Co., York and Jasper Sts., 5 story and basement, 33 x 150 ft., rein.-con. and brick, plain foundation, Boston Ave. and Jasper St., to M. H. Wilson Co., 20 South 15th St. Archts. est. $70,000.

N. J., Bayonne—ICE PLANT—F. and L. Mongiello, 74 West 23rd St., will build 1 story, 50 x 100 ft., brick and steel, plain foundation, 78-84 West 23rd St. $40,000. Work will be done by separate contracts. Private plans.

N. J., Linden—FACTORY and OFFICE—Radio Electric Clock Co., 50 Church St., New York City, general contract 1 story, 40 x 100 ft., and 60 x 100 ft., rein.-con., brick and steel, plain foundation, Vreeland Mills Rd., to Wilhelms Constr. Co., 119 Division St., Elizabeth. Archts. est. $55,000. Noted July 14.

N. J., Milford—PAPER PLANT—Warren Mfg. Co., 342 Madison Ave., New York City, 2 story, 81 x 225 ft. machine room, 2 story, 72 x 144 ft. finishing building, 25 x 180 ft. train shed, 2 story, 30 x 70 ft. office building, etc., here, to H. K. Ferguson Co., Hanna Bldg., Cleveland, O. Archts. est. $300,000.

N. J., Newark—PLANT—C. B. Comstock, archt. and engr., 110 West 40th St., New York City, general contract 2 story, 65 x 90 ft., rein.-con., brick and steel, plain foundation, Bergen St., here, to C. R. Hedden, Co., 357 South Orange Ave., for General Baking Co., 420 Lexington Ave., New York City. Archts. est. $75,000. Noted Aug. 25.

N. C., Kannapolis—BLEACHERY—Cannon Mfg. Co., bleachery addition, to W. O. Pratt, Mount Holly, $250,000.

O., Barberton—FACTORY—Sun Rubber Co., two factory units, 2 story, Mark Rd., to Austin Constr. Co., East 152nd St., Cleveland, $50,000.

O., Cleveland—FACTORY—F. C. Thornton Co., 6712 Union Ave., 1 story, 35 x 136 ft., brick and steel, 6712 Union Ave., to Industrial Constr. Co., 308 Euclid Ave. Archts. est. $40,000.

O., Cleveland—FACTORY and WAREHOUSE—Elyria Iron & Steel Co., H. B. Wick, pres., 232 East 131st St., 1 story, 140 x 159 ft., brick and steel addition, to H. K. Ferguson Co., 4900 Euclid Ave. Archts. est. $75,000.

O., Cleveland—PLANT—River Smelting & Refining Co., 4195 Bradley Rd., general contract, 1 story, 48 x 56 ft., brick and steel, Bradley Rd., to Griffin-Zimmerman Co., Engineers Bldg. Archts. est. approximately $40,000. Noted June 16.

Ind., Evansville—SHOP and WAREHOUSE—Roxana Oil Co., will build brick and steel, East Columbia St., by day labor. Archts. est. $46,000.

Wis., Milwaukee—GARAGE—Netter-Heiser & Co., 704 Wisconsin Ave., general contract 1 story, 120 x 230 ft., brick and steel, 5000 Lisbon Ave., to R. W. Dwyer, 187 27th St. Archts. est. $50,000.

Wis., Wauwatosa—LAUNDRY—Peacock & Frank, archts., 445 Milwaukee St., Milwaukee, general contract 2 story and basement, 73 x 116 ft., rein.-con. and brick, plain foundation, Wisconsin Ave., here, to T. Stark & Co., Muskego Ave., Milwaukee, for Wauwatosa Family Laundry Co. Archts. est. $125,000. Noted Aug. 18.

Mo., St. Louis—PULVERIZING MACHINERY FACTORY—Amer. Pulverizer Co., E. E. Elzemeyer, pres., 18th and Austin Sts., 2 story, 79 x 140 ft., brick, concrete and steel, concrete foundation, 1319 Macklind Ave., to W. C. Harting Constr. Co., International Life Bldg.

Ark., Little Rock—PLANING MILL, etc.—Arkmo Lumber Co., Rector Bldg., will build 1 story, 72 x 80 ft. timber and concrete planing mill, 1 story, 50 x 300 ft. warehouse, 1 story, 20 x 100 ft. dry kiln, 1 story, 18 x 60 ft. boiler house, 1 story, 24 x 600 ft. lumber storage building, 1 story, 40 x 50 ft. office building and 30 x 120 ft. timber dock, etc., West Bway. and 4th St., by day labor. $100,000.

Ark., White Cliffs—CEMENT MILL, etc.—Ideal Cement Co., Denver, Colo., C. Goettcher, pres., will build two kiln wet process cement mill, 2,500 bbl. daily capacity, etc. here, by day labor under supervision of M. C. Matthews, Ada, Okla. $2,000,000. Private plans.

Tex., San Antonio—FACTORY—Gebhardt Chilli Powder Co., 112 South Frio St., general contract 2 story, 70 x 100 ft., rein.-con. brick and part steel, plain foundation, to L. T. Wright & Co., 908 Builders Exch. Bldg., approximately $34,000. Noted Aug. 4.

Tex., Waco—BAKERY—C. J. Patterson Corp., will build 2 story, concrete brick and steel, by day labor. $125,000 incl. equipment. Private plans.

Okla., Okmulgee—PLANT—Pine Glass Co., 1 story, 80 x 170 ft., steel, plain foundation, to Muskogee Iron Wks. Co., Frankfort and Spaulding Sts., Muskogee. $80,000. Noted May 19.

Calif., Los Angeles—PRODUCE TERMINAL—Central Mfg. Dist. Co., Loma Vista St., (1st unit) 1 story, rein.-con., to W P. O'Neil Co., Inc., 48-14 Loma Vista St., approximately $1,500,000. Total $3,500,000.

Calif., Los Angeles—FACTORY—Western Lithograph Co., Rose St., 3 story, 75 x 120 ft. with 25 x 25 ft. wing, rein.-con., Rose St. near 2nd St., to J. F. Rhodes, 612 Pershing Sq. Bldg., $57,250.

Calif., San Francisco—COOPERAGE PLANT—Bauer Cooperage Co., 55 Hampshire St., 1 story, steel and corrugated iron, Keith St., to Michel & Pfeffer, Harrison and 10th Sts., approximately $40,000. Noted Aug. 4.

Ont., Hamilton—PLANT—Hamilton By-Product Coke Ovens Ltd., motor benzol plant, to Semet-Solvay Eng. Corp., 40 Rector St., New York City, approximately $400,000.

Buildings—Educational, Religious

Proposed Work

Mass., Boston—CHURCH—Holy Name Parish, W. P. McNamara, pastor, 1689 Centre St., West Roxbury, plans raising funds to exceed $150,000, church, Centre St., here. Engineer and architect not selected.

Mass., Fall River—CHURCH and PARISH HOUSE—St. Johns Episcopal Church, H. I. Fair, pastor, having preliminary plans prepared by C. C. Coveney, 184 Boylston St., Boston, 1 and 2 story and basement, brick and stone, plain foundation, 689 Middle St. $150,000 or more.

Mass., Fall River—TECHNICAL HIGH SCHOOL—City, c/o W. Pritchard chmn. com., having preliminary plans by J. F. Cullen, 29 Newbury St., Boston, and E. M. Corbett, 70 Bedford St., 2 and 3 story and basement, brick and stone, plain foundation, Rocks St. $1,000,000. Noted May 19.

Mass., Revere (br. Boston)—CHURCH—Our Lady of Lourdes, J. Cronan, pastor, 1 Endicott Ave., takes bids after Sept. 15, altering and constructing 1 story and base- and stone addition, plain foundation, Endicott Ave., Beachmont Sect. $150,000. W. W. Drummey. Inc., 80 Boylston St., Boston, archt.

Mass., West Roxbury (sta. Boston)—SCHOOL—City of Boston, Schoolhouse Dept., takes bids after Sept. 19, 2 story and basement school, Russett Rd., Robert Gould Shaw Dist., here. $220,000. M. A. Syer, 1 Beacon St., Boston, archt. Noted May 26.

R. I. Providence—CONVENT—House of Good Shepard, c/o Sister Mary Francis, plans 6 buildings, Eaton St. $150,000 or more. A. J. Murphy, 25 Fenner St., arch.

Conn., West Hartford (br. Hartford)—SCHOOL—B. I. Miller, town, mgr., Town Hall, having revised plans prepared by R. F. Barker, 43 Farmington Ave., Hartford, 2 story and basement, 62 x 205 ft., brick and steel school Elmwood section. $250,000. Former bids rejected. Noted Aug. 18.

N. Y., Schenectady—HIGH SCHOOL—Bd. Educ. having plans prepared by R. L. Bowen, 207 State St., high school, Mont Pleasant section. $250,000.

N. J., North Bergen (Ind. br. Weehawken)—SCHOOL—Bd. Educ. soon takes bids general contract P. S. 9, 3 story and basement, 150 x 175 ft., brick and steel, plain foundation, 38th and 39th Sts., between Hudson Blvd. and Medway Pl. $850,000. F. Hensel, 254 Summit Ave., Union City, archt. W. Weir, 254 Summit Ave., Union City, associated archt.

N. J., Ridgewood—SCHOOL—Bd. Educ., 1 Franklin Ave., soon takes bids general contract Grade and Junior High School, 3 story and basement, brick and steel, plain foundation, Monroe St. $460,000. Fanning & Shaw, 49 Ward St., Paterson, archts. Noted July 21.

N. J., Summit—HIGH SCHOOL—Bd. Educ., 272 Morris Ave., soon takes bids 2 and 3 story and basement, brick and steel, addition, plain foundation. $200,000. Guilbert & Betelle, 20 Branford Pl., Newark, archts. Noted July 7.

Pa., Lansdowne—HIGH SCHOOL—School Bd., F. S. Underhill, 112 North Broad St., Phila., rejected bids Aug. 30, Junior and Senior High School, Green and Highland Sts. Will readvertise. Noted Aug. 25.

Va., Harrisburg—HIGH SCHOOL—W. H. Keister, supt. Harrisonburg High School Dist. takes bids about Sept. 15, (1st unit) 3 story, rein.-con. and brick high school. $160,000. Total $340,000.

O., Columbus—SCHOOL—Bd. Educ., W. V. Drake, clk., having revised plans prepared by H. D. Smith, 207 East State St., Junior High School, 2 story and basement, 200 x 250 ft., brick and concrete, Indianola Park. $325,000.

O., Shaker Heights (br. Cleveland)—CHURCH and PARISH HOUSE—Christ Church c/o E. G. Mapes, pastor, 3321 Dorchester Rd., Cleveland Heights, plans 1 and 2 story, brick and steel church and parish house, here. $150,000. Engineer and architect not selected.

Ind., Indianapolis—CHURCH—First Presbyterian Church, 16th and Delaware Sts., having plans prepared by Foltz & Osler, 704 Wild Bank Bldg., remodeling and constructing 1 story, 58 x 110 ft. brick steel and stone top addition, $150,000. Bevington & Williams, 1139 Indiana Pythian Bldg., engrs.

Mich., Battle Creek—CHURCH—First Presbyterian Church, c/o A. B. Chanel, archt., 717 Post Bldg., having plans prepared 2 story and basement, 83 x 127 ft., steel, brick and stone, incl. auditorium and gymnasium, plain foundation, Maple St. $200,000.

Ill., Chicago—SYNAGOGUE—E. P. Steinberg, archt., 360 North Michigan Ave., prepared plans and soon takes bids 3 story and basement, 105 x 125 ft., brick and stone, 1439-1447 Pratt Blvd., for Temple B'Nai Zion. c/o architect. $250,000. Noted June 23.

Ill., East St. Louis—SCHOOL—Bd. Educ., J. S. Pidgeon, secy., 600 St. Louis Ave., rejected bids Aug. 22, 2 story and basement, 66½ x 131 ft., rein.-con., brick and stone, 74th St. near State St. $150,000. J. G. Steinbach, 155 North Clark St., archt. Noted Aug. 18.

Ark., Ft. Smith—HIGH SCHOOL—Bd. Educ., c/o G. C. Hardin, pres., soon takes bids 3 story, concrete and brick, North 23rd and B Sts. $300,000. Perkins, Chatten & Hammond, 160 La Salle St., Chicago, Ill., archts.

Tex., San Antonio—SCHOOL and AUDITORIUM—San Fernando Cathedral, takes bids after Sept. 15, 3 story and part basement, rein.-con., brick and tile, plain foundation, Laredo St., between Travis and Houston Sts. $150,000. L. M. J. Dielmann, 306 East Commerce St., archt. Noted Aug. 4.

Wash., Seattle—CHURCH—J. A. Creutzer, archt., Medical & Dental Bldg., preparing plans 3 story and basement, fireproof church, incl. 99 classrooms, 4 assembly halls, 2 basketball and one handball court, on 120 x 120 ft. plot, near 7th Ave. and Spring St., for Presbyterian Church, M. A. Matthews, pastor. $200,000.

Wash., Seattle—SCHOOL—F. A. Naramor, archt., Central Bldg., takes bids about Oct. 29, 3 story and basement, fireproof intermediate school, 1,200 seating capacity, 45th St. S. W. and West Spokane St., for Seattle School Dist. 1, Central Bldg. $550,000. Noted June 2.

Calif., Huntington Park—CHURCH—Church of Latter Day Saints having plans prepared by Pope, Burton & Falkenrath, Chamber of Commerce Bldg., Los Angeles, rein.-con. church. $150,000.

Calif., Los Angeles—SCHOOLS—Los Angeles School Dist. had plans prepared by Architectural Dept. Bd. Educ., 2 story school, Radford Ave., and 16 room school, Harrison St., both brick. $150,000 each.

Calif., Oakland—COLLEGE—College of Holy Name having preliminary plans prepared by J. J. Donovan, 1916 Bway., Los Angeles, fireproof college. To exceed $150,000.

Calif., Oakland—SCHOOL—City School Dist. having plans prepared by Building & Grounds Dept. Bd. Educ., 2 story brick, incl. gymnasium, etc., 26th Ave. and Myrtle St. $250,000.

Calif., Owensmouth—SCHOOL—Los Angeles School Dist. having plans prepared by Architectural Dept. Bd. Educ., brick school, incl. auditorium and classroom building. $150,000.

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Buildings—Educational, Religious (Cont.)

Bids Desired

N. H., Portsmouth—HIGH SCHOOL—City, Superintendent Schools, City Hall, taking bids altering and constructing 2 story and basement, brick addition, plain foundation. $150,000. R. Coit, 9 Park St., Boston, Mass., archt.

Mass., Hull—CHURCH—St. Mary of the Bay, C. A. Finn, pastor, Allerton, taking bids 1 story and basement, brick and stone, plain foundation, Main St. and Highland Ave. $150,000. J. M. Gray, 175 High St., Boston, archt.

Mass., Worcester — CHURCH — Sept. 16 (extended date), by Our Lady of Mt. Carmel Parish, G. Maffie, pastor, 1 story and basement, brick and stone, Mulberry St. $160,000. R. C. Gorrani, Green St., archt. Noted Sept. 8.

N. Y., Amenia—SCHOOL—Oct. 19, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Albany, 24 buildings at Wassaic State School for Mental Defectives, here, adv. E. N.-R. Sept. 15. Noted June 23 under "Wassaic."

N. Y., Brooklyn—HIGH SCHOOL and FACULTY HOUSE—Sept. 16, by McKenna & Irving, archts., 15 Park Row, New York City, brick and stone addition, here, for Brooklyn College Preparatory School, 1125 Carroll St., R. P. Connor, in charge.

N. Y., New York—CHURCH and RECTORY—Sept. 16, by R. J. Reilly, archt., 10 East 41st St., 125 x 175 ft., brick and stone church and rectory, for St. Elizabeth Roman Catholic Church, Bway. and 183rd St.

N. J., Totowa (mail Paterson)—DORMITORIES—Sept. 20 (extended date), by C. N. Leathem, Jr., State Bldg., Trenton, 4 dormitories, hospital, water and fire protection, etc. at Training School for Feeble Minded Females, here. Noted Aug. 25.

N. C., Greenville—SCHOOL—Sept. 29, by Bd. Trustees East Carolina Teachers College, completing training school, additional dining room unit, new kitchen and power house, machinery room, laundry, and renevation two dormitories, etc., here. G. R. Berryman, Odd Fellows Bldg., Raleigh, archt.

Ill., Chicago—SCHOOLS—Sept. 22, by Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., Lowell School addition, Hirsch and Spalding Sts.; steam heating, plumbing, ventilating, etc., in Spalding School Addition, Washington and Ashland Sts.; and plumbing in new school, Major and Roscoe Sts. J. C. Christensen, 650 South Clark St., archt.

Ont., Toronto—CHURCH — Darling & Pearson, archts., 2 Leader Lane, taking bids 1 story and basement, concrete, brick and stone church, for Bedford Park Presbyterian Church, $165,000. Noted Mar. 10.

Bids Received

Calif., Los Angeles—AUDITORIUM and LIBRARY—Regents of University of California, general contract auditorium and library, from J. C. Bannister & F. Gow, 6331 Hollywood Blvd., $1,490,000; plumbing, from T. Larsen Co., 2029½ Vermont St., $74,573; heating, to Hickman Bros., 471 8th St., San Pedro, $126,480; boilers and miscellaneous mechanical equipment, from Howe Bros., 1198 San Pedro St., $104,276; and electrical work, from B. L. Perry, $70,092, all foregoing for University of California (Southern Div.), 855 North Vermont Ave. Noted Aug. 18.

Contracts Awarded

Mass., Beverly — SCHOOL — Building Com., City Hall, altering and constructing 2 story and basement, brick and stone addition, plain foundation, McKay St., to C. H. Cunningham & Sons, Co., 23 Central Ave., Lynn. Archts. est. $150,000. Noted June 30.

Mass., Groton—HIGH SCHOOL—F. Torrey, chn. Selectmen, altering and constructing 2 story and basement, 50 x 70 ft., and 25 x 125 ft., brick and stone high school addition, plain foundation, Main St., to G. A. Fletcher, 215 Blossom St., Fitchburg. Archts. est. $150,000.

Mass., Long Island (br. Boston) — NURSES HOME — City of Boston, Institution Dept., 3 story and basement, brick, plain foundation, at Long Island Hospital, here, to J. Bowen, 184 Dudley St., Roxbury. Archts. est. $150,000. Noted June 30.

Mass., Medford (Boston P. O.)—SCHOOL—City, c/o School Comn., 2 story and basement, brick and steel school and auditorium, plain foundation, 4th St., to M. S. Kelliher, 21 North Munroe Terrace, Dorchester, $99,453; heating and ventilating, to Chisholm Plumbing & Heating Co., 379 Westford St., Lowell, archts. est. $25,000. Noted Aug. 4.

Mass., Milford—CHURCH—Sacred Heart Parish 1 and 2 story and basement, brick and stone, plain foundation, East Main St., to J. P. Keating, 80 Boylston St., Boston. Archts. est. $150,000 or more. Noted June 9.

Mass., West Roxbury (br. Boston)—SCHOOL — City of Boston, Schoolhouse Dept., 2 story and basement, rein.-con., brick, granite and limestone, Beach St., Longfellow Dist., here, to F. Imhoff, 164 Dudley St., Roxbury, $257,000. Noted June 23.

Conn., West Hartford (br. Hartford)—SESMINARY—St. Thomas Seminary, M. F. McAuliffe, pastor, 3 story and basement, 60 x 480 ft., and 40 x 160 ft., rein.-con. brick, steel and limestone, Bloomfield Rd., to W. F. O'Neil, 983 Main St., Hartford, $1,089,000. Archts. est. $1,000,000. Noted Aug. 18.

Mass., Quincy (Boston P. O.)—SCHOOL—T. T. McGrath, Mayor, 2 story and basement, brick and stone, plain foundation, to Frankini Bros., 30 Mystic Ave., Medford, $273,641. Noted Mar. 10.

Mass., Rockland — HIGH SCHOOL—Town, P. Mulvihill, secy. comr., general contract 3 story and basement, irregular shaped, brick and stone, plain foundation, Memorial Park, to C. T. Rocheford, 16 Norwich St., Worcester.

Mass., Southbridge — SCHOOL — Town, W. G. Lamoureau, chn. com., 2 story and basement, brick and stone trade school, plain foundation, to F. X. Laliberte, 59 Beecher St., $84,300. Noted Aug. 18.

R. I., North Providence (sta. Providence)—SCHOOLS—Town, School Comn., 2 story and basement addition, Fruit Hill Ave. and school in Allendale Dist., to Interstate Constr. Co., Tribune Bldg., Providence. Archts. est. $150,000. Noted Aug. 11.

Ind., Greencastle—COLLEGE—DePamo University, general contract 3 story and basement, rein.-con., brick, steel and stone, to L. Colvin, 823 Contiental St. archts. est. $250,000.

Ind., Nappenee—HIGH SCHOOL—School Comn., general contract 2 story and basement, 100 x 200 ft., rein.-con., brick and steel, incl. gymnasium and auditorium, to Franz & Leucks, New Paris. Archts. est. $180,000.

Federal Government Work

Proposed Work

D. C., Wash. — Lightship — Oct. 4, by Bureau Lighthouses, and at office Superintendent Lighthouses, San Francisco, constructing Lightship 100.

Tex., San Antonio — Barracks — A. W. Parker, constructing quartermaster, Fort Sam Houston, takes bids about Sept. 18, 3 story and part basement, brick and concrete barracks, Fort Sam Houston, here. Noted July 21.

T. H., Pearl Harbor—Refrigerating Equipment—Spec. 5482—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans refrigerating equipment, incl. motor-driven compressors, condenser, liquid receiver, motor-driven brine pumps, brine cooler, return tank, etc. at Naval Operating Base (Submarine Base), here.

Bids Desired

N. Y., New York—Piping—Sept. 29, by Treas. Dept., at office Supervising Archt., Wash., D. C., brass water supply system, at U. S. Custom House, here; adv. E. N.-R. Sept. 15.

N. Y., Northport—Canteen Building—Oct. 11, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., canteen building at U. S. Veterans Hospital, here.

N. J., Oceanport—Hospital—Sept. 27, (extended date), by Contracting Quartermaster, Fort Monmouth, general contract 3 story and basement, 100 x 100 ft., brick and steel, plain foundation, Fort Monmouth, here. $150,000. Noted Aug. 18.

D. C., Wash.—Power and Heating Building—Sept. 20, by Bureau Standards, power and heating building. $185,000. W. I. Deming, 808-17th St. N.W., archt.

Va., Norfolk—Dredging — Oct. 10, by U. S. Engineers Office, dredging in southern and eastern branches Elizabeth River, Norfolk Harbor, here. adv. E. N.-R. Sept. 15.

La., New Orleans — Levee Work — See "Contracts Awarded."

Kan Ft. Riley (Ind. br. Junction City)—Ammunition Magazine—Sept. 20, by Quartermaster General's Office, Fort Riley, constructing ammunition magazine at Natl. Guard Camp, here.

Ore., Astoria—Wharf—Sept. 30, by Treas. Dept., at office Supervising Archt., Wash., D. C., repairing wharf at Quarantine Station, here.

California — Guard Rail and Paving — Sept. 20, by Natl. Park Serv., Dept. of Interior, 907 Sheldon Bldg., 461 Market St., San Francisco, constructing masonry guard rail and stone ditch paving Yosemite Natl. Park Highway System.

Bids Received

Me., Bar Harbor—Altering—Spec. 5406—Bureau Yards & Docks, Navy Dept., Wash., D. C., Sept. 7, altering radio building, Otter Cliffs, here, from E. K. Whitaker, Bar Harbor, $35,456. Noted Aug. 18.

Me., Caribou—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., Sept. 8, constructing U. S. Post Office, here, from English Constr. Co., 15 West 91st St., New York City, $51,000. Noted Aug. 25.

New York—Dredging—U. S. Engineer Office, Army Bldg., Whitehall St., New York City, Sept. 12, dredging and rock removal at Mamaroneck Harbor, from Trimount Dredging Co., 101 Tremont St., Boston, Mass., $45,297; and in Hempstead Harbor, from Bay State Dredging Co., 62 Condor St., East Boston, Mass., $38,925. Noted Aug. 18.

Va., Yorktown — Magazine Buildings — Spec. 5476—Bureau Yards & Docks, Navy Dept., Wash., D. C., Sept. 7, constructing magazine buildings at Navy Mine Depot, here, from Hugger Bros. Constr. Co., 703 Shepard Bldg., Montgomery, Ala., $229,000. Noted Aug. 18.

Ala., Selma—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here, from A. C. Samford, 24 Galena Ave., Montgomery, $22,650. Noted Aug. 11.

Wyoming — Roads — Bureau Pub. Rds., Denver, Colo., Aug. 25, grading 4 mi. Teton Highway Srufacing Sect., Teton Co., here from Butler Bros., Driggs, Idaho, $15,020 and constructing Devils Tower Bridge Project, Crook Co., from C. M. Smith, Thermopolis, Wyo., $28,500. Noted Aug. 25.

Utah—Road—B. J. Finch, dist. engr. Bureau Pub. Rds., 403 Kisel Bldg., Ogden, grading, etc. Sects. 1 and 2 East Rim Road Project within Zion Natl. Park, Washington Co., here, from Nevada Contg. Co., Fallon, Nev., $607,058. Noted Aug. 11.

Ariz., Tucson—Hospital—U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., Aug. 11, general contract nineteen 1 and 2 story buildings at U. S. Veteran's Hospital, here, from Sumner Sollitt Co., 307 North Michigan Blvd., Chicago, Ill., $775,134. Noted June 30.

Calif., San Diego—Garage—Spec. 5363—Bureau Yards & Docks, Navy Dept., Wash., D. C., Sept. 7, garage at nurses quarters Naval Station, here, from M. H. Golden, San Diego, $4,611. Noted Aug. 25.

Contracts Awarded

Pa., Tarentum—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., constructing U. S. Post Office, here to A. M. Lundberg, 208 North Bway., St. Louis, Mo., $63,900. Noted Sept. 8.

Va., Norfolk—Dredging—U. S. Engineer Office, dredging at mouth Onancock River, here, to W. H. French, Dredging & Wrecking Co., Inc., Citizens Bank Bldg., $49,578. Noted July 21.

Va., Yorktown—Roads—Spec. 5424—Bureau Yards & Docks, Navy Dept., Wash. D. C., roads at Navy Mine Depot, here, to L. Morgan Johnston, Arlington, $118,755 (300 days). Noted Sept. 8.

La., New Orleans—Levee Work—U. S. Engineers Office, will build 515,000 cu.yd. levee work in Lower Tensas Levee District, by day labor.

Tenn., Chattanooga—Drilling—U. S. Engineers Office, diamond core drilling for subsurface investigations at 3 dam sites, Clinch River, here, to Standard Drilling Co., 420 Lexington Ave., New York City, $11,462.

Ill., Great Lakes (mail Waukegon)—Heating Plant Building—Spec. 5404—Bureau Yards & Docks, Navy Dept., Wash., D. C., heating plant building at U. S. Naval Training Station, here, to Peterson-Colwell, Inc., Minneapolis, Minn., $65,214 (300 days). Noted Sept. 8.

Wyoming—Roads—J. W. Johnson, dist. engr. Bureau Pub. Rds., Denver, Colo., grading, etc. Encampment—Slater Natl. Forest Road Project, Carbon Co., here, to Jacobson & Ehrhart, 603 Washington St., Denver, Colo., $39,765. Noted Sept. 8.

New Mexico—Roads—Bureau Pub. Rds., Custom House, Denver, Colo., surfacing 6.61 mi. Cimarron-Taos Natl. Forest Road Project, Taos Co., to Shields & Kyle, 1301

Federal Government Work (Continued)

South York St., Denver, Colo., $91,224. Noted Aug. 25.

Calif., Palo Alto—Fence and Gates—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C. fence and gates at U. S. Veterans Hospital, here, to Standard Fence Co., 60th and Lowell Sts., Oakland, $10,832. Noted Aug. 25.

Calif., San Diego—Altering—Spec. 5416—Bureau Yards & Docks, Navy Dept., Wash., D. C., altering basement Ward "B", outpatients Dept., to E. F. Hastings, San Diego, $13,880.

Unclassified

Proposed Work

Wharves—New Orleans, La.—Dock Bd., 500 Camp St., had preliminary plans prepared replacing Poland St. Wharf with concrete and steel structure, 400 ft. long, $500,000; also removing present structure and constructing Poydras St. Wharf, double deck, steel and concrete on treated piles, $1,500,000. S. Young, Camp St., engr.

Tunnel and Approaches—Anderson, Ind.—Madison Co. and Cleveland, Cincinnati, Chicago & St. Louis Ry., H. Baldwin, ch. engr., 230 East 9th St., Cincinnati, O., did not award contract for tunnel and approaches incl. 7,000 cu.yd. earth excav., to Herrick & Co., Cuyahoga Bldg., Cleveland, O. This corrects report in Aug. 11 issue.

Pipe Line—Texas—Ozark Pipe Line Corp. Shell Bldg., St. Louis, Mo., making plans approximately 12 mi. pipe line from Muenster to Bulcher. $60,000.

Natural Gas System—Texas—West Texas Gas Co., Amarillo, making plans gas distribution system and pipe line from Amarillo fields to Lamesa. $185,000. Private plans.

Transmission Line, etc.—Texas—Central Power & Light Co., c/o Frost Bldg., San Antonio, making plans 22 mi. high power transmission line between Driscoll and Corpus Christi, and sub-station in Driscoll. $80,000. Private plans.

Underpass—Amarillo, Tex.—Potter Co., c/o S. B. Motlow, co. judge, Amarillo, making preliminary plans, underpass under Rock Island Ry. tracks on Canyon Rd., 6 mi. west of here. $40,000. J. W. Ryder, Amarillo, co. engr.

Townsite Development—Catarina, Tex.—F. C. McCarthy, c/o Richey-Casey & Gragg, North St. Mary's St., San Antonio, making preliminary plans new townsite, developing 56,000 acres land in Dimmit and Zavalla Counties, 20 mi. northwest of here, incl. grading $45,000; waterworks $25,000, and sewers $30,000. Private plans.

Lighting System, etc.—Fort Davis, Tex.—Central Power & Light Co., c/o Frost Bldg., San Antonio, plans complete lighting system and power plant, here. $35,000. Private plans.

Wharf, etc.—Galveston, Tex.—Galveston Wharf Co., c/o G. Seay, pres., 2324 B St., making surveys and preliminary plans improving wharf, incl. increasing storage and loading capacity of Elevator B, additional concrete bins, etc. $350,000. Private plans.

Lake—Grapeland, Tex.—Grapeland Country Club, made plans developing 174 acre site adjoining club, incl. construction lake covering 100 acres, etc. $75,000.

Storage Tanks—Myra, Tex.—Humble Pipe Line Co., Humble Oil Co. Bldg., Houston, and Humble, made plans two 55,000 bbl. storage tanks, near here. $125,000. Work may be constructed by day labor. Private plans.

Race Track—San Antonio, Tex.—W. P. Kyne, c/o Chamber of Commerce, making preliminary plans and surveys, etc. ⅝ mi. race track, barns, loading, chutes, etc. $100,000. Private plans.

Land Development—Weslaco, Tex.—Progresso Development Co., c/o J. A. Baker, Baldwin and Hadley Sts., Houston, and Weslaco, making plans developing 6,000 acre site, near here incl. 2 lakes. dredging, etc. $100,000, streets $75,000, waterworks $40,000, sewers $40,000, lighting system $45,000, and hard surfacing 25 mi. roads $250,000, etc. Total $3,500,000.

Transmission Line — Oklahoma — Chickhoma Gas & Electric Co., Insurance Bldg., Oklahoma City, made plans 9 mi. 13,200 volt electric transmission line from Meeker to Payson and distribution system in Payson. $27,500. Byllesby Eng. Co., 231 South La Salle St., Chicago, Ill., engr.

Transmission Line — Oklahoma — Chickasha Gas & Electric Co., Chickasha, made plans 16 mi. 13,200 volt transmission line from Anadarko to Washita and to Ft. Cobb with distribution system in each town. F. D. Shafer, Chickasha, engr.

Grain Elevator—Saskatoon, Sask.—Robin Hood Mills Ltd. making plans constructing elevator, flour mill, warehouse and office building. $500,000.

Pile Wharf—North Vancouver, B. C.—Vancouver Harbor Comrs., 525 Seymour St., Vancouver take bids about Sept. 30, 500 ft. creosoted pile wharf, 50 ft. incl. storage sheds on north shore Burrards Inlet, here. $50,000. H. W. Frith, 525 Seymour St., Vancouver, engr.

Bids Desired

Arena—Nashua, N. H.—National Club, c/o J. H. Rogers, archt., 10 State St., Boston, Mass., taking bids 105 x 210 ft., brick and steel arena, here.

Street Signs—Boston, Mass.—See "Contracts Awarded."

Shelter—Cambridge (br. Boston) **Mass.**—Sept. 20, (extended date), by Building Dept., concrete shelter building, Rindge Field. $25,000. T. P. Graham, 171 Newbury St., Boston, archt. Noted Sept. 1.

Mechanical Equipment—Brooklyn, N. Y.—Sept. 27, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., mechanical equipment, incl. plumbing, heating and ventilating, electrical work, etc. in P. S. 225, Ocean View Ave., Brighton Beach, for Bd. Educ., 500 Park Ave., New York City.

Mechanical Equipment—Far Rockaway, N. Y.—Sept. 27, by W. H. Gompert, engr. and archt., Flatbush Avenue extension and Concord St., Brooklyn, mechanical equipment, incl. plumbing, heating and ventilating, electrical work, etc. in Far Rockaway High School, Cornaga Ave. and Beach 25th St., here, for Bd. Educ., 500 Park Ave., New York City.

Exit Facilities and Fire Stops—Rochester, N. Y.—Sept. 28, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, constructing exit facilities, fire stops, electric lighting, etc. at State Hospital, here; adv. E. N.-R. Sept. 15.

Subway Stations—Phila., Pa.—Sept. 30, by Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., finishing Race-Vine, Spring Garden, Fairmount and Girard Stations for Broad Street Subway, Contr. 181.

Overpass — Florida — See "Streets and Roads."

Coal and Ash Handling Equipment—St. Louis, Mo.—Oct. 4, by Bd. Pub. Serv., 208 City Hall, coal and ash handling equipment for Municipal Service Bldg., 12th St. and Clark Ave. $30,000. J. Prichard, dir.

Lighting System—Anaheim, Calif.—E. B. Merritt, city clk., taking bids ornamental lighting system in portions East and West Bway., North and South Lemon, and West La Palma Sts. To exceed $25,000.

Lighting System—Fullerton, Calif.—F. C. Hazmalhach, city clk., taking bids ornamental lighting system on portions North Richmond and North Grand View Aves., etc. $25,000 or more.

Contracts Awarded

Boiler House and Heating Plant—Boston, Mass. — Mayors Office, City Hall, boiler house and heating plant in Highland Ave. School, to J. M. Hartwell, 46 Cornhill, $62,000. Noted Aug. 11 under "Buildings—Industrial."

Electrical Work—Boston, Mass.—Library Dept., Library Bldg., reconstructing electric wiring in Central Library Building, Copley Sq., to Federal Electric Supply Co., 42 High St. $36,997. Noted July 21.

Street Signs—Boston, Mass.—Dept. Pub. Wks., will construct 25,000 steel plate intersection street signs on wrought iron posts 8 ft. high, on various streets, by day labor. $100,000. J. H. Sullivan, c/o owner, comr.

Comfort Station—New Bedford, Mass.—City, Pub. Buildings Dept., City Hall, 1 story, concrete and timber comfort station and skaters rest house, to T. Loranger, 238 Phillips Ave., $24,023. Engrs. est. $25,000. Noted Aug. 4.

Culverts—New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, culverts along Conduit Blvd., Queens Co., to B. Greico, 44 Russell St., Brooklyn, $34,456. Noted Aug. 25.

Pier Sher — New York, N. Y. — Dept. Docks, Pier "A," foot Battery Pl., constructing pier shed over Pier 46, over North River, to Carleton Co., 151 West 42nd St., $485,352. Noted Aug. 18.

Barges—Pittsburgh, Pa.—Anderson-Tully Co., North 2nd Ave., Memphis, Tenn., 2 barges, 160 ft. long, 34 ft. wide and 7 ft. deep, 335 tons steel plates and sections required, to Amer. Bridge Co., Frick Bldg., Pittsburgh. Engrs. est. $100,000.

Tunnel, etc.—Anderson, Ind—Cleveland, Cincinnati, Chicago & St. Louis Ry Co., H. Baldwin, ch. engr., 230 East 9th St., raising yards 3 ft., constructing tunnel at Main St., and track elevation, here, to Walsh Constr. Co., 308 Euclid Ave., Cleveland, O., approximately $100,000. Engrs. est. $110,000.

Culverts—Centerville, Ia.—Appanoose Co., 39 culverts and extensions on Primary Bridge Project 475, to Ellis & Jordan, Centerville, $33,296.

Culverts—Indianola, Ia.—Warren Co., 38 culverts and extensions, to A. L. Summers, Indianola, $27,000.

Grain Elevator—St. Louis Park, Minn.—Commander-Larabee Milling Co., B. B. Sheffield, pres., 922 Flour Exch. Bldg., Minneapolis, general contract 1,000,000 bu. rein.-con. addition, here, to Barnett & Record Co., Flour Exch. Bldg., Minneapolis, approximately $160,000.

Culverts — Nebraska — See "Streets and Roads."

Subway—Galveston, Tex.—City and Galveston, Harrisburg & San Antonio Ry., subsidiary of Southern Pacific Lines (in Texas and Louisiana) Texas and New Orleans R.R. Co., R. W. Barnes, ch. engr., Southern Pacific Bldg., Houston, 120 ft. concrete and timber subway, 16 ft. high, under railway tracks connecting Navigation Blvd. with 75th St., to Johnston Constr. Co., Galveston, approximately $25,000.

Wharves—Houston, Tex.—Houston Port Comn., constructing Wharves 14 and 15, at ship channel, to C. W. Ennis, 1401 Dowling St., $402,800. Engrs. est. $300,000. Noted Sept. 1.

Piers—Seattle, Wash.—Northern Pacific R.R. Co., H. E. Stevens, ch. engr., St. Paul, Minn., 100 x 150 ft. extension to Pier 5, at 1215 Railroad Ave. incl. driving five hundred and sixty-seven 75 to 90 ft. piles, to McEachern Constr. Co., Colman Bldg., $55,000.

Lighting System—Culver City, Calif.—Ornamental lighting system on Wagner St., etc., to Newbery Electric Co., 726 South Oliver St., Los Angeles, $25,425.

Lighting System Los Angeles, Calif.—Ornamental lighting system on Bway. between Manchester Ave. and 93rd St., to D. S. McEwan, 3018 Lincoln Blvd., $25,192.

Lighting System — San Jose, Calif. — Ornamental lighting system on 2nd St. between St. John and San Salvador Sts., to R. M. Butcher, 68 South Willard St., $28,919.

Grain Elevator—Montreal, Que.—Harbor Comr. 30,000,000 bu. grain elevator, concrete, to E. G. Cape & Co., Ltd., New Birks Bldg., $1,800,000, incl. machinery..

Pier — Port Maitland, Ont. — Dept. Pub. Wks., Ottawa, concrete and timber pier, Port Maitland Harbour, to V. T. Bartram, Bank of Toronto Bldg., Toronto, $45,000. Engrs. est. $40,000.

Materials

Bids Desired

Fuel Oil—Boston, Mass.—Sept. 21, by Supply Dept., light and heavy fuel oil to various City Depts. as required. To exceed $5,000. H. S. Frost, supt.

Pipe Burlingame, Calif.—City in market c.i. pipe for extending water works.

Bids Received

Asphaltic Cement—Brooklyn, N. Y.—J. J. Byrne, pres. Brooklyn Boro, Sept. 8, 400,000 gal. asphaltic cement, from Warner Quinlan Co., 26 Beaver St., New York City, $25,360; 4,800 cu.yd. binder stone and 2,500 tons limestone, from New York Trap Rock Corp., 250 Park Ave., New York City, $9,312 and $12,168 respectively; 4,000 cu.yd. asphalt sand, from Ryan, Buckley & Hickey, Inc., 66 Court St., $3,880. Noted Sept. 1.

Cement — Los Angeles, Calif. — Los Angeles Co., from Monolith Portland Cement Co., Bartlett Bldg., 38,000 bbl. portland cement at mill at $2.07 per bbl. or in sacks $2.58, f.o.b. cars San Dimas. Noted Aug. 25.

Contracts Awarded

Pipe—Baltimore, Md.—Bd. Awards, vitr. terra cotta pipe, to Baltimore Clay Products Co., 2113 West Lafayette Ave., $19,204.

See proposal advertising on page 136

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Bridge—Harrisburg, Penn.

Bids were opened by B. E. Taylor, Secy. Dept. Property & Supplies, Capitol, July 21, for Soldiers & Sailors Memorial Bridge, Contr. No. 2, from (A) James McGraw Co., Phila.; (B) S. W. Shoemaker & Son, Harrisburg; (C) C. W. Strayer, Harrisburg; (D) Winston Bros. Co. & H. H. Wilson, Harrisburg; (E) Whiting-Turner Co., Baltimore; (F) O'Neill Co., Phila.; (G) F. A. Canuso & Son, Phila.; (H) McLean Contg. Co., Baltimore. The unit bids are as follows:

	A	B	C	D	E	F	G	H
Premium for bond	$24.00	$24.18	$30.00	$20.75	$30.00	$25.50	$28.50	$29.00
Preliminary work	10.00	12.70	90.00	24.25	15.00	9.50	3.00	15.00
Removal of Penn. R.R. bridge	6.00	5.00	2.20	2.05	7.50	20.00	12.50	10.00
Temporary foot bridge	3.50	6.00	1.903	6.20	4.00	5.00	2.50	4.00
Stairs	700.00	786.00	330.00	1,100.00	700.00	300.00	500.00	500.00
800 sq.yd. remov. brick paving	.30	.50	.30	.40	.75	.65	1.00	.60
400 lin.ft. remov. curb	.30	.35	.10	.30	.30	.50	1.00	.25
4,000 cu.yd. excav.	2.00	2.60	2.00	4.00	2.30	1.65	2.40	2.00
Test piles	300.00	275.00	275.00	100.00	260.00	350.00	262.50	355.00
Bearing piles 10 ft. and under	3.50	2.55	2.75	2.00	2.50	3.25	2.40	3.00
Bearing piles 10 to 15 ft	3.50	2.55	2.75	2.00	2.50	3.25	2.40	3.00
Bearing piles 15 ft.	3.50	2.55	2.75	2.00	2.50	3.25	2.40	3.00
224 lin.ft. 36-in. caissons	8.00	14.96	16.60	15.00	10.00	15.00	13.55	12.60
1,176 lin.ft. 42-in. caissons	11.00	20.46	21.60	17.50	13.00	20.00	18.90	17.60
480 lin.ft. 50-in. caissons	13.50	28.82	20.20	20.00	17.00	28.00	27.00	25.20
117 lin.ft. 52-in. caissons	18.00	28.88	29.25	21.00	18.00	28.10	27.15	25.25
632 lin.ft. 54-in. caissons	19.50	30.36	30.60	22.00	19.00	29.50	28.60	26.60
210 lin.ft. 56-in. caissons	22.00	32.72	32.75	23.00	21.00	33.00	31.90	28.75
1,561 lin.ft 60-in. caissons	28.00	39.02	38.48	24.00	23.00	38.00	37.00	34.48
41 lin.ft. 70-in. caissons	40.00	48.25	46.87	31.00	30.00	48.00	46.15	42.87
3,450 cu.yd. 1-6 con. in footings	14.00	18.00	10.60	10.50	11.35	12.90	13.25	10.70
9,600 cu.yd. 1-6 con. above footings	16.00	20.00	13.40	13.00	14.70	15.90	16.30	13.88
2,250 cu.yd. 1-6 con. above granite base	15.00	20.00	13.40	12.00	14.65	16.35	16.60	12.72
3,510 cu.yd. 1-6 con. above footing	15.00	18.00	13.90	12.00	14.50	15.90	17.50	13.70
3,290 cu.yd. 1-6 con. above granite	15.00	20.00	13.90	12.00	14.50	15.40	17.50	13.70
7,800 cu.yd. 1-6 con. in arch rings	18.00	30.00	19.80	18.00	22.55	19.40	23.50	18.35
380 cu.yd. 1-6 con. for R.R. arch	30.00	45.00	25.00	35.00	31.20	21.50	35.00	45.75
1,110 cu.yd. 1-6 con. arch spandrel wall	16.00	25.00	14.40	18.00	24.30	19.80	22.00	14.84
880 cu.yd. con. 1-6 slabs on R.R. arch	17.00	30.00	17.00	23.00	20.50	20.00	25.00	15.76
3,500 cu.yd. 1-6 nonsustain con. back	22.00	20.00	16.70	19.50	17.30	19.90	21.00	17.14
1,810,000 lb. reinforced steel	.035	.045	.033	.04	.041	.044	.041	.049
2,000 lb. copper flashings	.50	.70	.36	.50	.45	.50	.45	.48
4,900 sq.ft. contex surface finish	.10	.12	.08	.07	.10	.075	.20	.08
164,000 ft. tooled surface finish	.05	.10	.10	.174	.18	.10	.07	.10
167,000 sq.ft. waterproof and con. coat	.30	.40	.28	.34	.29	.185	.155	.27
267,000 ft. granite base course	5.00	5.90	4.80	7.00	5.95	5.50	9.35	5.84
160 cu.ft. steps and platform	6.00	6.73	5.00	7.50	7.00	5.90	8.75	6.20
28 hub guards	90.00	75.00	51.30	100.00	100.00	200.00	57.00	115.00
65,000 cu.ft. facing	4.00	4.45	4.00	4.25	4.25	4.20	5.00	3.65
3,300 lin.ft. bullnose course	18.50	18.11	16.65	14.90	18.00	18.50	22.30	18.00
5,400 lin.ft. parapets	22.00	19.00	19.50	22.20	23.00	22.00	25.25	22.00
2,800 cu.ft. balconies and stairs	4.30	4.00	3.83	5.70	5.00	4.30	4.95	4.90
24 keystones for arches	760.00	700.00	640.00	650.00	800.00	760.00	600.00	740.00
8 keystones for arches	625.00	600.00	520.00	530.00	680.00	625.00	500.00	610.00
6 stone grills in stairs	225.00	153.00	140.00	190.00	200.00	225.00	150.00	180.00
2 ornamental panels	310.00	338.50	264.00	310.00	350.00	310.00	300.00	302.00
1,940,000 lb. struc. steel in spans over Penn. R.R. tracks	.05	.05	.043	.0565	.044	.054	.0475	.042
67,500 sq.ft. gunite protection	.50	.40	.40	.47	.41	.465	.45	.40
2 staircases, complete	4,000.00	4,855.00	1,100.00	1,300.00	1,600.00	2,000.00	2,500.00	3,000.00
1 bronze door, complete	13.50	10.00	12.00	15.00	12.50	15.00	13.00	14.00
14,000 cu.yd. excavation	.90	2.50	1.60	.375	.92	1.10	.90	1.00
37,000 cu.yd. arch fills	.70	.51	.30	.68	.80	1.10	.90	1.00
1,800 sq.yd. sodding	.80	.50	.70	1.00	1.40	.60	1.00	1.40
5,000 sq.yd. seeding	.25	.30	.19	.40	.25	.30	1.00	.15
58 c. i. drain inlets and covers	75.00	90.00	63.76	73.00	67.00	55.00	50.00	25.00
1,600 lin.ft. c. i. pipe	2.00	2.15	3.76	1.82	2.20	4.00	2.25	3.50
700 lin.ft terra cotta pipe	1.00	.82	2.23	.75	1.00	2.00	.90	.60
500 lin.ft. 12-in. T. C. pipe	1.50	1.26	1.74	1.10	1.50	2.25	1.75	1.00
3,300 lin.ft. 12 way T. C. ducts	1.50	1.50	1.40	1.50	1.55	2.00	9.75	1.70
3,300 lin.ft. 3½-in. fibre ducts	.20	.30	.30	.30	.30	.35	1.00	.32
800 lin.ft. 1½-in. metallic conduits	.25	.30	.30	.25	.40	.75	.80	.30
22 manhole frames and covers	30.00	63.00	26.00	30.00	50.00	100.00	25.00	23.00
100 pull boxes	7.00	25.00	7.00	7.30	25.00	10.00	35.00	8.00
50 trolley pole sockets	20.00	30.00	25.00	16.00	22.00	5.00	50.00	25.00
500 sq.ft. tile lighting dome reflectors	3.50	4.10	3.60	3.40	4.25	2.25	3.50	1.50
3,500 sq.yd. removal existing pavements	.75	.60	1.00	2.00	1.05	.50	1.00	.60
1,800 lin.ft. removal existing curb	.20	.35	.10	.30	.30	.50	1.00	.20
13,300 sq.yd. con. roadway pavement	3.00	2.50	2.00	3.10	4.00	2.30	3.25	2.90
4,300 lin.ft. granite curb	4.00	6.44	4.80	6.50	6.40	5.30	7.30	6.00
27,000 sq.ft. sidewalks	.25	.25	.25	.40	.43	.25	.40	.30
300 lin.ft. 12-in. T. C. pipe	1.50	1.26	1.74	1.10	1.70	2.50	1.75	1.00
14-in. T. C. pipe	1.50	1.63	3.10	1.25	2.50	4.00	2.00	2.00
16-in. T. C. pipe	2.00	2.37	6.00	1.75	3.50	5.00	2.50	3.00
18-in. T. C. pipe	2.75	2.37	3.00	1.75	4.00	6.00	3.00	4.00
24-in. T. C. pipe	3.50	3.92	5.00	3.00	5.50	7.00	3.50	5.00
22 drain inlets and catch basins	150.00	120.00	80.00	120.00	170.00	70.00	75.00	60.00
Manholes, frames and covers	250.00	225.00	100.00	120.00	250.00	100.00	110.00	100.00
Totals	$1,624,651	$1,638,650	$1,650,848	$1,672,228	$1,730,189	$1,754,270	$1,915,335	$1,961,174

Engineering News-Record, Issue of Sept. 15, 1927.

UNIT PRICES ***Continued on page 142a***

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Reservoirs and hydro-electric plants, Bryan, Tex., Brazos River Reclamation Ass'n. making plans, $50,000,000.

Schools, Chicago, Ill., Bd. Educ. having plans prepared, seven new high schools, $20,000,000.

Oil pipe line, Texas, Humble Pipe Line Co. making preliminary plans, $10,000,000.

Waterworks, Fort Worth, Tarrant Co., Tex., Water Control League, bond election Oct. 8, $6,500,000.

Apartment hotel and club, Chicago, Ill., Bryn Mawr Beach Hotel Co. plans, $5,000,000.

Temple, San Francisco, Calif., Islam Temple of Mystic Shrine plans Masonic Temple, $5,000,000.

Railway, Houston and Port Arthur, Tex., W. Doherty, pres., made plans, $4,000,000.

Paper mill, Port Townsend, Wash., Zellerbach Paper Corp., plans, $4,000,000

Street, Los Angeles, Calif., City plans paving, $3,145,000.

Apartment, Philadelphia, Pa., M. A. Bernhardt, archt., preparing plans, $3,000,000.

Irrigation, Grass Valley, Calif., Nevada Irrigation Dist., making plans, $2,200,000.

Bridge, Texas, J. W. Billingsley, New Orleans, La., plans, $2,000,000.

Hotel, Oklahoma City, Okla., Syndicate having preliminary plans prepared, $2,000,000.

Apartment, Chicago, Ill., P. F. Reynolds, having plans prepared, $2,000,000.

Club, San Francisco, Calif., Decimo Club having plans prepared, $2,000,000.

Hotel, club, gymnasium and garage, San Antonio, Tex., San Antonio Turn Verein had plans prepared, $1,500,000.

Office, Tulsa, Okla., R. T. Daniels, having preliminary plans prepared, $1,500,000.

Office, Tulsa, Okla., C. C. Cole, having preliminary plans prepared, $1,500,000.

Hotel, Seattle, Wash., H. A. Vance, had plans prepared, $1,500,000.

Hotel, Cleveland, O., Cleveland Hotel Co., having plans prepared, $1,500,000.

Sewage treatment plant, Chicago, Ill., Sanitary Dist. of Chicago, plans, $1,500,000.

Studio, Hollywood, Calif., L. West having preliminary plans prepared, $1,400,000.

Sewers, Oklahoma City, Okla., made preliminary plans, $1,100,000.

Apartment hotel, Fort Worth, Texas, G. T. Vickers, having plans prepared, $1,000,000.

Street lighting system, St. Louis, Mo., Bd. Pub. Serv. takes bids in November, $1,000,000.

Hotel, Oklahoma City, Okla., L. W. Wentz having preliminary plans prepared, $1,000,000.

Roundhouse, machine shop, etc., Tecumseh, Ont., Canadian Nat'l Ry., having plans prepared, $1,000,000.

Apartment, Charlotte, N. C., Charlotte Apartment House Corp. plans, $1,000,000.

Bids Desired

Aquarium, Chicago, Ill., Graham, Anderson, Probst and White, archts., taking bids, $3,000,000.

Bids Received

Theatre, San Francisco, Calif., H. A. Minton, associated archt., from MacDonald & Kahn, approximately $1,600,000.

Contracts Awarded

Dam, Seattle, Wash., Bd. Pub. Wks. to Winston Bros., Minneapolis, Minn., $2,546,388.

Bridge, Paducah, Ky., Paducah-Ohio Bridge Co. to Union Bridge & Constr. Co., Kansas City, Mo.; Wisconsin Bridge Co., North Milwaukee, Wis., and Rouse Constr. Co., Cape Girardeau, Mo. Grand total, $1,285,000.

Power plant, Beaumont, Tex., Gulf States Utilities Co. to Stone & Webster, Boston, Mass.; Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.; Babcock & Wilcox Co., New York, N. Y., Engrs. est., $1,000,000.

Apartment, Fordson, Mich., J. Schaefer, to Blair Constr. Co. Archts. est., $1,000,000.

News of the Week

Waterworks

Proposed Work

Pa., Pittsburgh—See "Unclassified."

Mich., Detroit—Dept. Water Supply making preliminary plans rein.-con., brick, steel and stone auxiliary pumping station, Water Works Park. $500,000. G. H. Fenkell, 176 East Jefferson Ave., gen. mgr.

Mo., Deepwater—City postponed indefinitely waterworks, distribution and sewerage system. $75,000. W. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, engrs. Noted June 16.

Mo., Lockwood — Making preliminary plans complete waterworks and distribution system. To exceed $25,000. Engineer not selected.

Mo., Marceline — Making preliminary plans modernizing and extending waterworks and distribution system, incl. filtration plant. Black & Veatch, 700 Mutual Bldg., engrs.

Tex., McCamey—Pecos Valley Power & Light Co. made plans diversion 4,000 acre ft. water from Pecos River in Crockett Co., for generation pumping plant. $100,000 incl. machinery. Private plans.

Tex., Quanah—Northern Texas Utilities Co., Wichita Falls, making plans 50 x 300 ft., concrete and steel pumping plant, near here. $200,000. Private plans.

Tex., Rio Hondo—Voted $15,000 bonds, waterworks, incl. mostly equipment, pumping unit, pipe, etc. Address C. E. Mallern, Rio Hondo. Noted Aug. 18.

Okla., Crescent—Voted $15,000 bonds, digging well and installing pump, motor and extending 10,000 lin.ft. 4 and 6 in. c.i. mains in various streets. F. B. King, Grain Exch. Bldg., Oklahoma City, engr.

Okla., Sentinel—Making plans new water supply. $75,000. C. A. Wood, Stillwater, engrs. Noted July 7.

Colo., Pueblo — Trustees Pueblo Water Wks., c/o D. P. Porter, supt., 4th St. and Grand Ave., soon takes bids 8,500 ft. 40 in wood stave, concrete or iron mains from Reservoirs to pumping plant.

Wash., Port Townsend—City and Zellerbach Paper Corp., 1254 1st St., Seattle, plan 30 mi. 30 in. pipe line delivering 16 m.g.d. Baar & Cunningham, Spaulding Bldg., Portland, Ore., engrs. Noted Sept. 15.

Ont., Brampton—Making plans extending waterworks, new mains, valves, hydrants, centrifugal pumps, etc. $50,000. Gore, Nasmith & Storrie, Confederation Life Bldg., Toronto, engrs.

Ont., Markham—Made plans 100,000 gal. rein.-con. reservoir. $15,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Niagara Falls—F. A. Dallyn, engr., 71 King St. W., Toronto, making plans rein.-con. and concrete waterworks filtration system, 20 m.g.p.d., pumps, piping, pumphouse, valves, filters, filter beds and reservoirs, here, for City. $500,000.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Bids Desired

N. Y., Brooklyn — Sept. 27, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenues O, R and V, Albany, Nostrand, and Voorhies Aves., Dikeman, Harling, Lake Sts., etc., here.

N. Y., Long Island City—Sept. 27, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 39th, Borden, Elliot, and 31st Aves., 85th, 156th, 162nd, 168th, 211th, 213th Sts., etc., here.

N. Y., New York—Sept. 27, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in West 182nd St., Amsterdam and St. Nicholas Aves.

Md., Baltimore—Sept. 28, by Bd. Awards, 6,084 lin.ft. 10- to 42-in. mains, etc., in Argonne Dr. E. G. Rost, City Hall, acting water engr.

Va., Victoria—Oct. 4, by Town, G. R. Marshall, town clk., waterworks and sanitary sewerage systems, incl. 2 deep wells and pumps, steel tower and tank, 20,064 ft. 6- to 20-in. c.i. and 27,000 ft. 1½ in. galvanized steel pipe, 50 fire hydrants, 94 valves, 67,035 ft. sewer pipe, 2 duplex sewer pumping stations, 1 septic and 2 Imhoff tanks, 3 sludge beds, etc. J. B. McCrary Eng. Corp., Citizens & Southern Bank Bldg., Atlanta, Ga., engrs.

O., Bay (br. Cleveland)—Sept. 27, by Village, mains in Donald Dr. and Russell Rd.; also sewer in Donald Dr., and walks on Woodland Rd. Wight-O'Rourke Co., Guarantee Title Bldg., Cleveland, engrs.

O., Cleveland—Sept. 28, by Bd. Comrs. Cuyahoga Co., 8,500 ft. 6- to 12-in. c.i. mains in Hall, Walter and Florence Rds. To exceed $25,000. F. Williams, Court House, engr.

O., Fostoria—Oct. 6, at office E. A. Shuman, dir. Pub. Serv., improving waterworks plant. J. N. Chester Engineers, Union Bank Bldg., Pittsburgh, Pa., engrs.; adv. E. N.-R. Sept. 22.

O., Trenton—Sept. 23, by Village Council, P. Schumacher, acting clk., pump house and connections, two 35,000 gal. motor driven pumps, 16,000 ft. 4- to 8-in. c.i. pipe, and elevated tank, 75,000 gal. capacity, $47,000. C. Wright, 806 Dayton Savings Bldg., Dayton, engr.

Ill., Lake Forest—Oct. 11, by City Clerk, waterworks pumping equipment; adv. E. N.-R., Sept. 22.

Wis., Janesville—Oct. 5, by Comm. Pub. Wks., rein.-con. reservoir, 250 ft. diam. and 26 ft. high, for Water Dept. B. M. Palmer, chn.; adv. E. N.-R., Sept. 22.

Ia., Osage—Sept. 29, by A. S. Wright, city clk., 400 g.p.m. air lift pumping station, etc.; adv. E. N.-R., Sept. 22.

See proposal advertising on page 123

TRADE **"LEADITE"** MARK

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Waterworks engineers and superintendents prefer to use Leadite for joints—*It assures them that the pipe line will be completed and a revenue producer well within the time allowance.*

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Tested and used for over 30 years

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NO CAULKING

Waterworks (Continued)

Tex., Galveston—Taking bids 1 deep well, not less than 1 m.g.d., near Alta Loma pumping station. Address A. T. Lange, Galveston, city water comr.

Okla., Ryan—Taking bids waterworks equipment and mains, pumps, etc. in various streets. $15,000. Address Mayor. Noted Aug. 18.

Ont., Thorold—Sept. 27, by J. A. Clark, twp. clk., Fonthill, 13,800 ft. 4- to 8-in. c.i. main, special castings, gate valves, fire hydrants, etc., Contr. A; reservoirs and pumphouse, Contr. B; and main drain, Contr. J. $40,000. Ross & Scott, Welland, engr. W. Chipman, Mail Bldg., Toronto, consult. engr.

Bids Received

N. Y Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Sept. 16, mains in Avenues J, L, M and Q, Benson, Stanley, Canal, Flatlands, Hegeman Aves., etc., here, from Draganette Constr. Co., 1123 Clinton Ave., New York City, $15,940. Noted Sept. 8.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Bleecker, Greene and Grove Sts., etc., here, from Norton Constr. Corp., 21 East 40th St., New York City, $39,100. Noted Sept. 8.

Calif., San Luis Obispo—San Luis Obispo Co., c.i. mains, etc., in San Miguel Rd., etc., to C. Fisher, Chapman Bldg., approximately $32,000.

Contracts Awarded

Mass., Westfield—Dept. Pub. Wks., earth dam and Granville Reservoir, to C. & R. Constr. Co., 75 Bradeen St., Roslindale, $429,775. Noted Aug. 18.

O., Cleveland—Cuyahoga Co., 6,900 ft. 6 and 12 in. c.i. main in Dover Center Rd., Impvt. 1256, and main in Chipewa Rd., to Great Lakes Constr. Co., 1120 Chester Ave., $30,528 and $23,542 respectively; also 6,800 ft. 6 and 8 in. c.i. in Washington Blvd. and Sunset Rd., Impvt. 370, to George & Ameen Co., Erie Bldg., $17,434. Grand total $71,504.

Ill., Libertyville — Bd. Local Impvts., 15,150 ft. 6 and 8 in. mains, etc. in Sayre Ave., to J. Brogan & Son, Green Bay, Wis., $26,509. Noted Aug. 25 under "Sewers."

Ill., Niles Center — Laramie-Brummel Water Mains, incl. 6- to 12-in. c.i. pipe, etc., to O'Brien Bros., 152 North Central Ave., Chicago, $20,969. Noted Sept. 1.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., 18,016 ft. 6- to10-in. c.i. mains in various streets, to Meirswa & Helms, 577 Jefferson St., Oshkosh, $14,650.

Neb., Lincoln—For 15,000 ft. 6- to 10-in. c.i. mains, 17 hydrants, 30 valves and 8,292 lb. special castings, etc. in Dist. 109, to Knudson Co., Bankers Life Bldg. $21,186.

Neb., Union—C. B. Smith, village clk., to E. C. Archibald, Omaha, 8 in. tubular well, 125 ft. deep, 12 in. strainer, etc., $1,000, 80 g.p.m. single stroke pump $1,664, 15 hp., 3 phase, 220 volt, 60 cycle auto motor $244, and install pump and motor $393; to Omaha Steel Works, 48th and Leavenworth Sts., Omaha, 40,000 gal. tank on 90 ft. tower $5,600; to United States Cast Iron Pipe & Foundry Co., 604 Interstate Bldg., Kansas City, Mo., 8,164 ft. 2- to 8-in. c.i. pipe $2,230 and pump house, etc. $750; to Crane Co., 323 South 10th St., Omaha, 10 hydrants, etc. $646. Grand total $16,620. Noted Sept. 1.

Mo., Macon—W. A. Tibbs, city clk. improving waterworks, 90,000 cu.yd. earth embankment, 1,050 cu.yd. concrete, two 700 g.p.m. pumps, 9,708 ft. 12 in. c.i. pipe, also rein.-con. and brick pumping station, to B. F. Brooks Constr. Co., Slaughter Bldg., Dallas, Tex., $108,439. Noted Aug. 18.

Okla., Seminole—Waterworks improvements, incl. 500 g.p.m. motor driven unit, 13,700 ft. 2- to 6-in. main extensions, etc., to Bensen & Farrar, Guthrie, $30,315. Engrs. est. $50,000. Noted Aug. 25.

Calif., Alhambra — To Natl. Cast Iron Pipe Co., Hellman Bank Bldg., Los Angeles, 2,300 ft. 14 in. c.i. pipe $4,600, and 2,400 ft. 4 in. $1,096, etc.

Ont., Elmvale—For 60,000 gal. steel tank, to Horton Steel Co., Bridgeburg; hydrants and gate valves, to Kerr Engine Wks., Walkerville ;mains, to Natl. Iron Co., Cherry St., Toronto; laying mains, etc., to G. Simone, 10 Coleridge Ave., Toronto. Engrs. est. $35,000.

Ont., London—Utilities Comn., drilling test wells, casing and pumps for increasing water supply 1 m.g.p.d., to Layne & Bowler, Chicago Co., 37 West Van Buren St., Chicago, Ill.

Sewers

Proposed Work

N. J., Perth Amboy—Bd. City Comrs. plan 8- to 15-in. sewer in Colgate Ave. $36,000. P. P. Costello, city clk.

D. C., Wash. — Dist. Comrs., District Bldg., rejected bids May 24, sewers in various streets. Noted May 12.

O., Alliance—Bd. Control will not open bids Oct. 1, sewage disposal plant. Bids were opened Sept. 20. This corrects report in Sept. 8th issue.

Mich., East Grand Rapids (mail Grand Rapids)—Making plans sewage treatment plant addition, incl. tanks, housing structure, etc. $75,000. Pearse, Greeley & Hanson, 6 North Michigan Ave., Chicago, Ill., engrs.

Ill., Chicago—Sanitary Dist. of Chicago, 910 South Michigan Ave., making plans North Branch Sewage Treatment Plant, addition, $1,500,000; also miscellaneous buildings, electrical work and equipment for West Side Sewage Treatment plant; and new section Salt Creek Sewer, incl. 12 in. vitr. pipe to 7 ft. monolithic pipe, etc. E. J. Kelley, 910 South Michigan Ave., engr.

Ill., Marion—Bd. Local Impvts. takes bids about Oct. 3, complete sewage disposal plant, incl. pipe, pumping machinery, etc. $83,207. G. F. McCarthy, city engr. P. B. Wilson, 1st Natl. Bldg., consult. engr. Noted Mar. 17.

Ill., Mt. Vernon—Bd. Local Impvt. postponed indefinitely, 80,900 ft. 8- to 36-in. vitr. clay sewers, 219 manholes, 16 drop manholes, 82 lamp holes, sewage disposal plant, etc., in Sewer Dist. 41. H. C. Hammond, city engr. P. B. Wilson, 1st Natl. Bldg., Marion, consult. engr. Noted Mar. 17.

Ill., Woodriver — Making preliminary plans sewerage system, incl. disposal plant, etc. $200,000. Black & Veatch, Mutual Bldg., Kansas City. Mo., engrs.

N. D., Jamestown—State Bd. Administration, E. G. Wanner, secy., Bismarck, making plans sewage disposal plant at State Hospital for Insane. $40,000. J. M. Roherty, Capitol, Bismarck, state engr.

Mo., Hannibal—Making preliminary plans sewers in various streets, also straightening Bear Creek. G. W. Farrell, City Hall, engr.

Mo., Springfield—Soon takes new bids 18,011 ft. 8 and 10 in. sewer in Dist. 7, Sect. 8. S. R. Fisher, City Hall, engr.

Tex., Spearman — Voted $50,000 bonds, complete sewerage system. Devlin Eng. Co., 127 Central Bldg., Amarillo, engrs.

Okla., Crescent — Voted $25,000 bonds, sewerage system. F. B. King, Grain Exch. Bldg., Oklahoma City, engr. Noted Nov. 4.

Okla., Edmond—Defeated $35,000 bonds, extending sanitary sewers in various streets. F. H. Peckham, 227 West Grand St., Oklahoma City, engr. Noted May 12.

Okla., Ft. Cobb—Plans sewage disposal plant, and 20,000 ft. 8- to 12-in. sewers in all streets. $25,000. J. J. McLane, mayor. Engineer not announced.

Okla. Oklahoma City—Made preliminary plans 3 mi. storm sewers in northwest section city. $1,100,000. B. M. Hart, City Hall, engr.

Okla., Seminole—Made preliminary plans 14,000 ft. 8 and 10 in. vitr. clay sewers in Vernon Heights and Terrace Garden. $31,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Wash., Walla Walla—Making plans sewage disposal plant. $200,000. Pearce, Greeley & Hanson, 6 North Michigan Blvd., Chicago, Ill., consult. engrs. W. R. Rehorn, Walla Walla, city engr. Noted Feb. 24.

Bids Desired

N. Y., Brooklyn—Sept. 28, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewers in Kings Highway, 90th 67th, and 59th Sts.

N. Y., New York—Sept. 28, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Eastchester Rd., Young, Edwards and Ellison Aves.

Pa., Chester—Oct. 7, at office Supt. Streets and Pub. Wks., concrete relief sewer in 8th St., Contr. 3. R. C. Wheeler, 36 State St., Albany, N. .Y, consult. engr.; adv. E. N.-R., Sept. 22.

Pa., Phila.—Sept. 28, by Dept. Pub. Wks., Bureau Engineering, main sewers in Hellerman and Large Sts., Taber Ave. between Sanger St. and Cheltenham Ave., and Taber Ave. between point north of Comly St. and Benner St. G. H. Biles, dir.

Md., Baltimore—Sept. 28, by Bd. Awards, sanitary sewers and storm drains in Dist. H-6 and H-13, Sanitary Contr. 245. M. J. Ruark, City Hall, sewerage engr.

Va., Victoria—See "Waterworks."

Ala., Birmingham—Oct. 3, by City Comn., approximately 1.5 mi. brick and concrete sewers in 10th Ave., 57th Alley, 53rd and 60th Places, 57th, 55th, 59th, 60th and 54th Sts. $264,900. A. J. Hawkins, city engr.

Tenn., Knoxville—Sept. 26, by Div. Pub. Service, trunk and lateral sewers, etc., incl. 25,000 ft. 8 in. concrete or vitr. clay sewers in Mountain View Sewer Dist. $50,000. L. Brownlow, city engr.

Mich., Detroit—Sept. 26, by Dept. Pub. Wks., 2,896 ft. 6¼ ft. to 8 ft. cylinder monolithic concrete sewer in Goethe Ave. Arm east of Fisher Ave. P. A. Fellows, city engr.

Mich., Detroit—Sept. 26, by Dept. Pub. Wks. 5,511 ft. 4 to 7½ ft. cylinder monolithic concrete sewer in Vernor Highway Arm west of Fisher Ave. P. A. Fellows, city engr.

Ill., Chicago—Sept. 23, by Bd. Local Impvts., brick sewer with brick manholes in East 72nd and East 74th Sts., Merrill and Paxton Aves. M. J. Faherty, pres.

Calif., Los Angeles—Supervs. Los Angeles Co., taking bids sewers in Drainage Impvt. Dist. 21 (Montebello Dist., along Whittier Blvd.) $235,000. C. E. Arnold, Hall of Records, drainage engr. Noted Sept. 8.

Bids Received

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Sept. 15, sewer in Payson Ave., from J. V. Timoney Constr. Co., 220 East 201st St., $12,670. Noted Sept. 8.

N. J., Vineland—Bd. Boro Comrs., Boro Hall, Sept. 13, trunk sewer and settling tanks, from E. R. Morehouse Co., 315 Market St., Camden, $80,723. Noted Sept. 8.

Mo., Moberly — Sewage disposal plant, incl. Ludlow sluice and shear gates, vitr. clay valve boxes and sewer pipe, inceptors, Dorr clarifier and digester, etc., from Repass Bros., 502 Frankel St., Des Moines, Ia. $32,900; and brick repaving 5,040 sq.yd. Reed St., from Lynch-McDonald Constr. Co., Moberly at $2.19 per sq.yd. Total $13,104.

Calif., Los Angeles—Los Angeles Co., vitr. sewer in Cudahy St., Impvt. 548, from M. N. Guho, 5316-8th Ave., $186,858.

Contracts Awarded

Mass., Boston—Dept. Pub. Wks., sewerage works in various streets, to C. Struzziery, 115 Kittredge, St., West Roxbury. Engrs. est. $25,000.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Kennedy & Smith, Inc., Bradford Ave., sewers in Burnside Ave. $1,426, 50th St. $1,250, and 65th Pl. $1,933; to E. Peterson, Hayes Ave. $47,696; to J. M. Johnson, Hosack Pl. $2,635; to Kew Contg. Co., Mineola, 25th Ave. $14,301; to Flushing Contg. & Eng. Co., 66 Wyoming Ave., Jamaica, 88th St. $7,037, and 107th Ave. $6,111; to P. J. Greenough, 9919 Guilford Ave., Forest Hills, 109th Ave. $1,087. Grand total $83,476. Noted Aug. 18.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewer in Roosevelt Ave., to A. Mannino & Co., 279 82nd St., Brooklyn, $18,841. Noted Sept. 1.

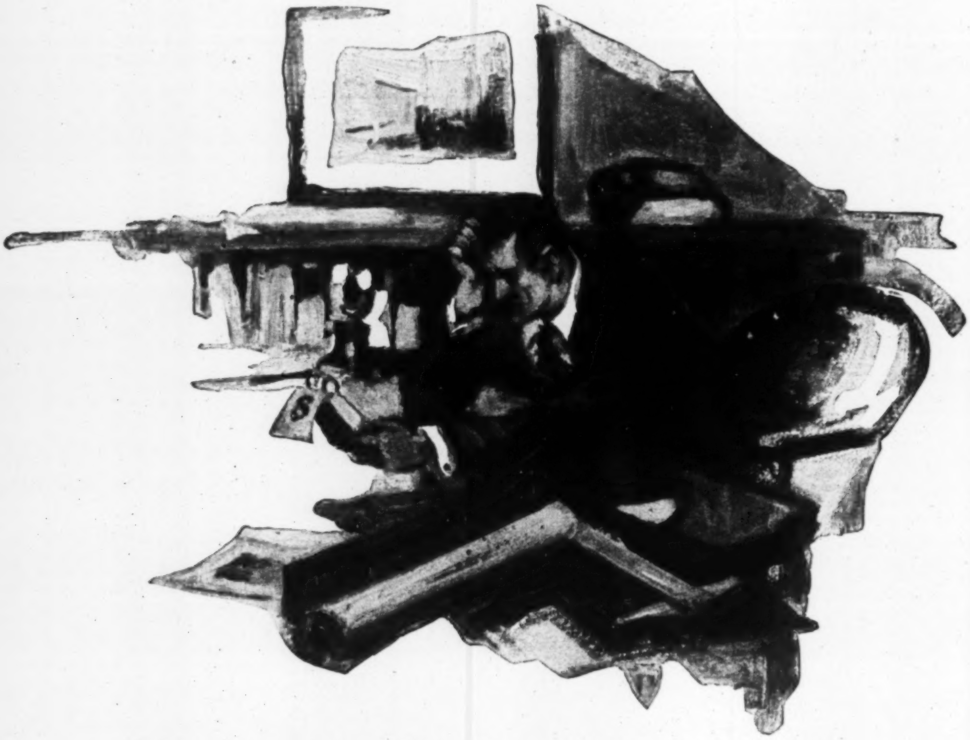
N. J., Hammonton—For 2,831 lin.ft. storm sewers, etc. in various streets, to P. B. Souder, Absecon, $11,013. Noted Sept. 1.

D. C., Wash. — District Comrs., District Bldg. to L. M. Johnson, Wash., D. C., upper Anacostia Main Interceptor Sewer, Sect. 1, $46,631, Wesley Heights, $9,196; to W. F. Brenizer Co., 101 New York Ave., N. E., $2,404, Connecticut Ave. Service Sewer, $1,045, Jay St., $2,164, Longfellow St., $1,327, Rhode Island Ave., $3,405, 58th St., $1,676, Replacement, $1,905 and 61st St., $2,706; to A. McCandlish, 196 Upshur St., N. W., Ellicott St. sanitary sewer, $2,764; to J. A. Forbes Co., 7401 7th Ave., Foote St., $3,423 and to G. B. Mullin Co., 1296 Upshur St., N. W., 16th St., $6,198 and $2,159. Grand total $89,630. Noted Aug. 25.

Ky., Georgetown—Approximately 6.5 mi. tile sewers and appurtenances in various streets, to Carey Reed & Co., 229 West Short St., Lexington, approximately $45,000.

O., Cleveland—For 1,264 ft. 6 x 8 ft. and 90 ft 6 x 9 ft., rein.-con. sewer in Kings-

Constr. News page 144



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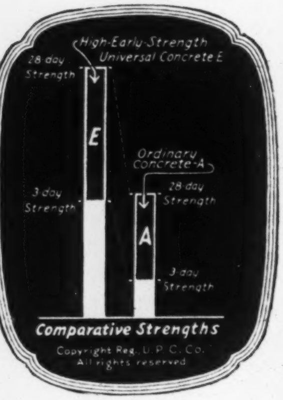

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ENR 9-22-27

Sewers (Continued)

bury Rd., to Hildilch & Bobal, 2111 Broadview Rd., $46,684.

O., Columbus—W. H. Duffy, dir. Serv., 1,050 ft. 96 in. and 1,367 ft. 78 in. brick sewers in DeNune Ave. and Weber Rd. (North Linden Storm Sewer), to L. S. Gaty, 1544 East Broad St., $68,764. Noted Aug. 25.

Mich., Dearborn — Constructing North Side Trunk Sewer, concrete, etc., to J. A. Mercier, 616 Hammond Bldg., Detroit, $190,615.

Mich., Detroit—Dept. Pub. Wks., vitr. and concrete sewers in Laterals 4847, 4821, 4851 and 4884, to United Sewer Corp., 7323 Emenon Ave., $71,611; and Lateral 4843, to Ianni Constr. Co., 3861 Doremus Ave., $143,353.

Ill., Elmhurst—For 12- to 59-in. vitr. tile sewers in various streets, to Gjellefold Constr. Co., Forest City, Ia., $316,574.

Ill., Libertyville — Bd. Local Impvts., 14,460 ft. 8- to 15-in. sewers, 49 manholes, etc. in Kenlock Park, to J. Brogan & Son, Green Bay, $34,140. Noted Aug. 25.

Mo., Springfield—Sewer in Dist. 4, Sect. 9, 10,890 ft. 8 in. pipe, 36 manholes, etc., to R. W. Langston, R.F.D. 3, $24,581; and concrete paving, etc. 2,395 sq.yd. Texas Ave., to Stigall Constr. Co., Benton and Talmadge Sts. at $1.45 per sq.yd.

Ark., Conway—For 85,180 ft. 8- to 12-in. vitr. clay and 18,343 ft. 12- to 18-in. c.i. sewers, disposal screen chamber plant, incl. diversion chamber, sludge bed, pump house, etc., to W. B. Carter, Tulsa, Okla., $126,798; clarifier and digester mechanism and sludge pump, to Dorr Co., Inc., 310 South Michigan Blvd., Chicago, Ill., $10,620 f.o.b. Conway; 2 in. centrifugal pump and 5 hp. motor, to Fairbanks Morse & Co., 217 South 8th St., St. Louis, Mo., $307 f.o.b. Conway. All above in Sewer Impvt. 2. Grand total $137,725. Noted Sept. 1.

Tex., Ft. Worth—City, O. E. Carr, mgr., sewer in Denver Ave., to Tarrant County Constr. Co., 1005 Calhoun St., $34,496.

Tex., Houston—Vacuum sludge filter system complete, used in enlarging North Side Sewage treatment plant, to United Filter Corp., 565 West Washington St., Chicago, Ill., $27,321, and 4 unit sludge dislodgers and concentrators for the settling tanks, to Dodge Mfg. Corp., Scanlon Bldg., Houston, $7,000. Noted Aug. 11.

Okla., Ada—L. Daggs, city clk., rebuilding and enlarging sewage disposal plant, to Fry Bros. Co., Ada, $39,831. Engrs. est. $45,000. Noted Aug. 18.

Okla., Seminole—P. Noe, city clk., sewage disposal plant and 11,000 ft. 15 in. vitr. clay outfall sewers in various streets, to Bensen & Farrar, Guthrie, $26,210. Engrs. est. $50,000. Noted Aug. 25.

Okla., Shawnee—For 26,100 ft. 8- to 12-in. vitr. clay sewers in various streets, to H. L. Cannady & Co., 1122 South Lewis St., Tulsa, $108,416. Engrs. est. $110,000.

Calif., Glendale — Vitr. sewer, etc. in Campbell and Louise Sts., et al, to B. D. Zaich & J. Henderson, 267 Hill Dr., $78,628. Noted Aug. 18.

Calif., Los Angeles — Constructing 4th and Lorena St. bridge, to Kelly & Sons, 815 South Hill St., $206,756.

Calif., Los Angeles—Sewer in 12th St. between Queen Anne Pl. and Rinpau Blvd., to G. R. Curtis Paving Co., 2440 East 26th St., $26,208.

Waste Disposal

Proposed Work

N. J., Perth Amboy—Pub. Wks. Comn., J. V. Smith, High St., plans incinerator. $100,000. L. P. Booz, 283 Madison Ave., city engr.

N. J., Point Pleasant—Bd. Council, making plans septic tank, for waste disposal. $150,000. R. Havens, 431 Railroad Sq., city engr.

Ky., Louisville—Making plans brick and steel garbage incinerator on old workhouse site. $175,000.

Ont., St. Thomas—Plans incinerator. W. C. Miller, City Hall, engr.

Contracts Awarded

N. J., Hackensack—Hackensack Impvt. Comn., Municipal Bldg. incinerator disposal plant, incl. equipment, etc., to Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., $89,730. Noted Aug. 4.

Bridges

Proposed Work

Vt., South Royalton—Central Vermont R. R. Co., P. D. Fitzpatrick, ch. engr., St. Albans, made plans concrete and steel bridge, here. $100,000-$125,000.

Mass., Framingham — Plans concrete bridges, on 2nd, Irving and Herbert Sts. $25,000. S. Dyer, City Hall, engr.

Mass., Gloucester—Essex Co. (Salem), R. H. Mitchell, chn. Bridge Comn., Salem, plans concrete highway bridge, here. $25,000 or more. R. M. Evans, co. engr.

Pa., Phila—Dept. Pub. Wks., Bureau Engineering, Bridge Div., soon takes bids 1,080 ft. rein.-con. double deck bridge, 80 ft., over Wissahicken Creek, on Henry Ave. $1,500,000. Modjeski & Chase, 1420 Walnut St., engrs.

Ala., Birmingham—Making surveys 8 concrete viaducts and 1 subway. A. J. Hawkins, city engr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making plans 6 bridges on State Road 41, between Kenton and Union City, Obion Co. C. N. Bass, highway comr.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, received no bids Sept. 9, 31 ft. concrete slab bridge, on Sect. "Bluffton North" Lima-Sandusky Rd., Allen Co., $3,256, and 234 ft. steel bridge on Sect. "D" Ohio River Rd., Washington Co., $57,665. Noted Sept. 1.

Ill., Chicago—Sanitary Dist. of Chicago, 910 South Michigan Ave., making plans superstructure Crawford Ave. bridge, 300 ft. long, 56 ft. roadway, over Main Drainage Channel, $900,000. E. J. Kelley, 910 South Michigan Ave., Chicago, engr.

Texas—J. W. Billingsley, engr., Interstate Bldg., New Orleans, La., acting for A. C. MacFarlane, (owner) Galveston, plans 1 mi. timber and concrete bridge between Galveston Island and Port Bolivar. $2,000,000. L. G. Frost, Galveston, engr. Noted Sept. 15.

Okla., Tulsa—Making surveys 1,200 ft. steel viaduct, 60 ft. roadway, on 4th St., $500,000. C. Schultz, City Hall, engr.

Calif., Santa Rosa—Made plans 4 new rein.-con. bridges over Santa Rosa and Matanzas Creeks. To exceed $25,000. E. A. Peugh, Courthouse, engr.

Bids Desired

Maine—Sept. 26, by State Hy. Comn., Augusta, Burnell Bridge, 95 cu.yd. concrete, also Warren Bridge, 127 cu.yd. concrete, both Baldwin Co.; Toll Bridge, steel superstructure, 416,000 lb. steel, Bethel Co.; Depot Bridge, 1,557 cu.yd. concrete, Corinth Co.; Wadsworth Bridge, steel superstructure, incl. 25,000 lb. machinery, Thomaston Co.; and International Bridge over St. Croix River, 367 cu.yd. concrete. P. D. Sargent, highway comr.

Alabama—See "Streets and Roads."

Ohio—Oct. 9, by G. F. Schlesinger, dir. Hys. and Pub. Wks., 234 ft. steel span bridge over Duck Creek on Sect. "D," Ohio River Rd., Washington Co. $57,665; 24 ft. concrete slab bridge on Sect. "Bluffton North" Lima-Sandusky Rd. Allen Co. $3,256; also 103 ft. concrete arch bridge on Sect. "I" Bono-Port Clinton Rd., Ottawa Co. $13,774.

O. Dayton—Oct. 13, by Comrs. Montgomery Co., Court House, 250 ft. span steel through truss highway bridge with rein.-con. abutments, etc., over Stillwater River at Siebenthaler Ave. near here. $75,000. W. O. Pease, Court House, co. surv.

Indiana—Sept. 29, J. D. Williams, dir. State Hy. Comn., Indianapolis, two 100 ft. and one 198 ft. span bridge on Road 67-D, Greene Co.; two 65 ft. span bridge on Rd. 67-A, and 60 ft. span on Rd. 56-N, Jefferson Co.; 50 ft. bridge on U. S. Rd. 31-S, Miami Co.; three 72 ft. and two 24 ft. span bridge on Rd. 37-H, also 50 ft. span bridge on Rd. 46-F, Monroe Co.; two 84 ft. bridges on Rd. 34-E, and four 72 ft. span bridge on Rd. 43-J, Montgomery Co.; three bridges on U. S. Rd. 41-S, Newton Co.; 100 ft. bridge on Rd. 43-K, Tippecanoe Co.; and two 150 ft. span bridge on Rd. 66-B, Warrick Co. W. J. Titus, ch. engr.

Kan., Pratt—See "Streets and Roads."

Neb., Hershey—Oct. 10, by T. Lowe, clk., Lincoln Co. (North Platte), nine 75 ft. pony truss or fourteen 50 ft. transverse joist girder span bridge, incl. approach fills, willow mattress and incidental work over Platte River, near here. R. L. Cochran, Lincoln, state engr.

Wyoming—See "Streets and Roads."

Ark., Dardanelle—Sept. 29, by State Hy. Comn., Little Rock, steel and rein.-con. bridge over Arkansas River, on Federal Aid Project 244-A, here, Pope and Yell Counties. Noted Sept. 15.

Washington—Oct. 4, by State Hy. Comn., Olympia, one 180 ft. span bridge with three 30 ft. rein.-con. approach spans, 20 ft. roadway, etc., over Teanaway River between Cle Elum and Virdens, Kittitas Co. S. J. Humes, state highway engr.

Wash., Seattle—Oct. 11, by State Hy. Comn., Olympia, 48 ft. concrete bridge over Dwamish River, on State Rd. 1, near here, King Co. S. J. Humes, highway engr. Noted Nov. 25.

Bids Received

New York—A. W. Brandt, comr. Highways, Albany, Sept. 9 **(e.e. means eng. est.)**, reconstructing bridges on Repair Contr. 1650, Highway 811, Georgetown-Otselic Rd., and 1326, DeRuyter Village, Madison Co., from J. J. Lyon, 310 Elm St., Fayetteville, $31,790 e.e. $42,419 on Repair Contr. 1654, Highway 8231, Palenville-Catskill Rd., Greene Co., from I. V. A. Huio, White Plains, $35,028 e.e. $40,342 on Highway 5348, Canisteo Jasper Rd., and on Highway 5349, Painted Post-Addison Rd., Part 3, Steuben Co., from A. L. Blades, 134 Main St., Horaell, $90,865 e.e. $125,086, on Repair Contr. 1651, Highway 5121, North Norwich-Sherburne Rd., Chenango Co., from F. Lewis & Sons, South Main St., Afton, $89,877 e.e. $114,824, on Repair Contr. 1649, Highway 335, Victor-Mendon Rd., Ontario Co., from J. Petrossi & Co., 6 State St., Rochester, $29,182 e.e. $39,071, and on Repair Contr. 1656, Highway 1180, St. Lawrence Co., Line-St. Regis Falls Rd., Franklin Co., from Wilbur-Barton Constr. Co., Mechanicsville, $16,923 e.e. $20,809 also painting, etc. 11 bridges on Repair Contr. 1655, Albany, Saratoga, Schenectady and Washington Counties, from N. A. Vassilaros, Inc., 15 Park Row, New York City, $35,100 e.e. $58,700. Noted Aug. 25.

N. J., New Providence—Bd. Freeholders Union Co. (Elizabeth) and Morris Co. (Norristown), Sept. 13, rein.-con. bridge, here, from H. R. Terrell, 842 Wood Ave., Linden, $27,775. Noted July 21.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, Sept. 9, 115 ft. steel bridge, on Sect. "E" West Union-Hillsboro Rd., Adams Co., from L. H. Nixon, Columbus, $23,913; two 24 ft. span concrete bridge, on Sect. "E" Dayton-Lakeview Rd., Champaign Co., from L. G. Garrison, Clayton, Mich., $5,032; and 4 bridges on Sect. "Rogers East" Lisbon-East Palestine Rd., Columbiana Co., from Allison-Harris Co., East Liverpool, $38,083; widening 2 bridges on Sect. "F" Urbana-Marysville Rd., Champaign Co., from T. Crew & Smith, London, $5,694; 0.62 mi. concrete arch bridge, on Sect. "S" Cleveland-East Liverpool Rd., Columbiana Co., from H. C. Armstrong, Lisbon, $33,671; 0.020 mi. concrete beam bridge, on Sect. "Salineville" Wellsville-Salineville Rd., Columbiana Co., from R. Moore, Ostrander, $18,800; widening steel beam bridge, on Sect. "A" Carthage-Hamilton Rd., Hamilton Co., from R. R. Hughs, Hamilton, $2,833; and 92.5 ft. concrete girder bridge, on Sect. "M-2" Zanesville-Caldwell Rd., Muskingum Co., from Adams Bros., Zanesville, $9,819; also new concrete abutments for old steel girder bridge on Sect. "C" Hayesville-Nashville Rd., Ashland Co., from Tinsley & Moore, Ashland, $8,083. Noted Sept. 1.

O., Cincinnati—C. O. Sherrill, city mgr., City Hall, two 75 ft. span concrete and steel bridge over West Fork Creek, from Gradison Constr. Co., 701 1st Natl. Bank, for City, $29,020. Engrs. est. $35,000. Noted Aug. 25.

Calif., Los Angeles—Bridge over Los Angeles River at Sepulceda Blvd., from Lynch-Cannon Eng. Co., Chapman Bldg., $27,215.

Calif., Visalia—Tulare Co., Bridge 80, rein.-con over St. John River, from L. C. Clark, Visalia, $29,885.

Contracts Awarded

Maine—State Hy. Comn., Augusta, constructing Oxford Tool Bridge, in Bethel, to Kennebec Constr. Corp., Gardner, $24,336; Sunday River Bridge, Bethel, to U. Mececier, Rumford, $26,241; Gully Bridge, Orland, to M. J. Rogers, Bangor, $16,865; Lower River Bridge, Phillips, to J. H. Kerr, Rumford, $32,474; and Cain Bridge, Clinton, to Fidelity Constr. Corp., South Portland, $10,104. Grand total $110,020. Noted July 28.

Rhode Island—Bd. Pub Rds., Providence, railroad bridges in Summit, Contr. 38-B, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $20,251; bridge in Hopkinton, Contr. 229, to O. Waterman, Providence, $4,176; also bridges in Hopkinton, Contrs. 230 and 231, to Cencarelli & Co., Westerly, $4,886. Grand total $29,313.

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Bridges (Continued)

New York—T. F. Farrell, comr. Canals & Waterways, State Pub. Wks. Bldg., Albany, removing existing bridges and constructing new highway crossings on Erie Canal, Madison and Oneida Counties, Erie Canal Contr. M-33, to H. J. Lyon, Fayetteville, $31,387. Noted Sept. 8.

New York—A. W. Brandt, comr. Highways **(e.e. means engineers estimate)**, reconstructing bridges on Repair Contr. 1650, Highway 811, Georgetown-Otselic Rd. and 1326, DeRuyer Village Rd., Madison Co., to H. J. Lyon, 310 Elm St., Fayetteville, $31,790 e.e. $42,419; on Repair Contr. 1654, Highway 8231, Palenville-Catskill Rd., Greene Co., to I. V. A. Huio, White Plains, $35,028 e.e. $40,342; on Repair Contr. 1653, Highway 5253, Jasper-Addison Rd., and Repair Contr. 1652, Canisteo-Jasper Rd., and Highway 5349, Painted Post-Addison Rd., Part 3, Steuben Co., to A. L. Blades, 134 Main St., Hornell, $90,865 e.e. $125,086; on Repair Contr. 1651, Highway 5121, North Norwich-Sherburne Rd., Chenango Co., to F. Lewis & Sons, Afton, $89,877 e.e. $114,824; on Repair Contr 1649, Highway 335, Victor-Mendon Rd., Ontario Co., to J. Petrossi & Co., 6 State St., Rochester, $29,182 e.e. $39,071; and on Repair Contr. 1656, Highway 1180, St. Lawrence Co. Line-St. Regis Falls Rd., Franklin Co., to Wilbur-Barton Co., Mechanicsville, $16,923 e.e. $20,809; also painting 11 steel bridges in Albany, Saratoga, Schenectady and Washington Counties, to N. A. Vassilaros, Inc., 15 Park Row, New York City, $35,100 e.e. $58,700. Grand total $328,865. Noted Aug. 25 under "Streets and Roads."

Maryland—State Roads Comn., Baltimore, to Luten Bridge Co., H. S. Ebert Bldg., York, rein.-con. arch bridge over Morgan Run, Contr. CI-71, Carroll Co., $23,960; rein.-con. arch bridge over Little Antietam Creek, Contr. W-50, Washington Co., $14,048; to S. T. Brotemarkle, Cumberland, rein.-con. bridges over Georges Creek, Contr. A-50 $16,914, Contr. A-49 $15,886, and Contr. A-51 $16,710, all foregoing in Allegany Co. Grand total $87,518. Noted Sept. 1.

Ga., McRae—Telfair Co., constructing 21 bridges to Coffee Constr Co., Eastman, $64,730. Engrs. est. $70,000.

Ky., Paducah—Paducah-Ohio Bridge Co., R. Rudy, pres., 230 Bway., substructure for 1,520 ft. cantilever bridge, 20 ft. roadway, over Ohio River, to Union Bridge & Constr. Co., 903 Sharp Bldg., Kansas City, Mo., $436,000; superstructure, to Wisconsin Bridge Co., North Milwaukee, Wis., $800,000, and approaches, to Rouse Constr. Co., Cape Girardeau, Mo., $49,000. Grand total $1,285,000. Noted Sept. 8.

Wis., Milwaukee—Constructing East Locust Street Bridge, concrete abutments, to Parkinson Constr. Co., 322-27th St., $9,176; and structural steel, to Lakeside Bridge & Steel Co., North Milwaukee, $17,749.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., constructing Indiana limestone substructure for 250 ft. steel bascule span bridge, 60 ft. with 12 ft. sidewalks, etc. on Cedar St., to E. E. Gillen, 288 East Water St. $507,538; also furnishing and delivering all structural steel, machinery, castings, forgings, etc. for superstructure for above, to Milwaukee Bridge Co., 1400-34th St. $148,795. This corrects report in Sept. 8 issue.

Iowa — State Hy. Comn., Ames, **(F.A.P. means Federal Aid Project, B.P. Bridge Project, and P.R. Primary Road)**, to Jenson Constr. Co., Kimbalton, one 40 x 20 ft. skew I beam, one 50 x 20 ft., pony truss and one 130 x 20 ft. high truss with two 32 ft. I-beam approach span bridges, on U. S. Highway 65, F.A.P. 300, Decatur Co. $39,365, to Federal Bridge Co., 1002 B. T. Bldg., Des Moines, one 36 x 24 ft. I-beam bridge in Toledo, B.P. 25, Tama Co., $4,500, to Iowa Bridge Co., 1901 Easton Blvd., Des Moines, one 70 x 20 ft. pony truss bridge at Ainsworth, B.P. 86, Washington Co., $10,950, and 1 culvert at Altoona, F.A.P. 206, Polk Co., $1,567; to C. A. Holvik, Mason City, three 32 x 24 ft. deck girder span bridge on Clear Lake Rd., B.P. 275, Cerro Gordo Co., $10,887; to Humphrey & Son, 3 span 32 x 20 ft. I-beam bridge near Turin, B.P. 38, Monona Co., $7,290; to F. O. Akin, Corning, one 32 x 24 ft. I-beam bridge and 28 culverts on B.P. 502, Adams Co. $22,000, and 5 culverts on Lennox Rd., P.B.P. 362, Taylor Co., $1,677; to Stillman & Stoops, Ames, three 40 x 24 I-beam bridges near Hampton on P. B. 538, Franklin Co., $13,989; to Snyder & Johnson, Humboldt, bridges and culverts on items 1 to 6 (inclusive) F.A.P. 26, Woodbury Co., $1,225, and items 5, 12, 60 and 62, $56,752, also 6 culverts near Centerville, B.P. 535, Appanoose Co. $3,142; to B. Cole, Ames, bridges and culverts on Item 6. F.A.P. 2, Woodbury Co. $51,200, to Lynch & Co., Castena, Items 20 to 65 except 60 and 62 on same road $24,700, and to McCallan & Dorn, South Sioux City, Neb., Items 4 to 19 except 5 and 12, $7,000; to E. N. Jordon, Centerville, 39 culverts on Centerville Rd., B.P. 479, Appanoose Co. $33,296; to Wilson Constr. Co., Red Oak, 59 culverts on F.A.P. 300, Decatur Co. $46,150; to Chariton Constr. Co., Chariton, 3 culverts in Chariton, B.P. 405, Lucas Co. $1,773; to H. E. Whitlatch, 31 culverts near Oskaloosa, B.P. 511, Mahaska Co. $23,060; to G. J. Chadek, Iowa City, 9 culverts on B.P. 86, Washington Co., $3,144; to H. E. Rhodes, Guthrie Center, 32 culverts on Greenfield Rd., P.B.P. 72, Adair Co., $17,549, to E. A. Kramme, Des Moines, 10 culverts on Murray Rd., B.P. 506, Clarke Co., $4,544; to W. E. Shoppe, Jefferson, 5 culverts on Missouri Valley Rd., F.A.P. 14, Harrison Co., $2,675; to Klauer Mfg. Co., Dubuque, 336 ft. 15 and 24 in. corrugated culvert pipe on P.R. 3, P. 475, Appanoose Co., $426; to Iowa Pure Iron Co., East 8th and Elm Sts. Des Moines, 1,000 ft. 15 and 18 in. corrugated culvert pipe on P.R.P. 3, F.A.P. 300, Decatur Co., $1,160, and 300 ft. 15 and 18 in. on U. S. Highway 34, P. 529, Lucas Co., $634; to Northfield Iron Co., Northfield, Minn., corrugated culvert pipe at New Sharon, P. 511, Mahaska Co. $1,408, and 240 ft. 15- to 24-in. on F.A.P. 167, Washington Co. $304; to Conner & Lee, Hampton, 224 anchors and 61,810 ft. guard rail on Postville-Lansing-Waukon Rd., P. 29, Allamakee Co., $25,123; to G. Cronkhite, Perry, 40 anchors, 3,150 ft. guard rail, etc. on Lime Springs Rd., F.A.P. 190, Howard Co., $1,219, 42 anchors, 4,670 ft. guard rail on U. S. Highway 218, P. 158-D, Mitchell Co. $1,568, also 104 anchors and 22,640 ft. guard rail on Graettinger Rd., P. 461, Palo Alto Co. $33,712; to P. Berg, Reinbeck, and Bryant Paving Co., Waterloo, 2,250 ft. 8 and 10 in. sewer pipe, 5 intakes, etc. on U. S. Highway 218, F.A.P. 283, Bremer Co., $1,533. Grand total $427,611. Noted Aug. 11 and 25.

Minn., Morton—State Hy. Comn., St. Paul, Bridge 4666, 3 span 290 ft. long, concrete, on State Project 14-24, Sect. 4, to Minneapolis Bridge Co., 924 Metropolitan Life Bldg., Minneapolis $45,500; and Overhead Structure 4668, 680 cu.yd. concrete, on same road, from Morris Constr. Co., Morris, $14,748. Noted Aug. 25.

Kan., Eldorado—See "Streets and Roads."

Neb., Duncan—C. H. Hoge, clk., Platte Co. (Columbus), Polk Co. (Osceola), and State Hy. Comn., at Columbus, fills, mattress, etc. for Duncan State Aid Bridge over Platte River, near here, to T. Gass, Kearney, $7,638; and eighteen 50 ft. transverse joist girder spans, etc. for above, to Allied Contractors, Inc., Nebraska Natl. Bank Bldg., Omaha, $60,000. Noted Aug. 25.

Neb., Ewing—E. F. Porter, clk. Holt Co., Court House, O'Neill, 100 ft. pony truss span and two 50 ft. pony truss approach span bridge 20 ft. roadway, etc. over Elkhorn River, near here, to Western Bridge & Constr. Co., 748 Peters Trust Bldg., Omaha, for Holt Co. and State Dept. Pub. Wks., Lincoln. Approximately $22,500. Noted Aug. 25.

North Dakota—See "Streets and Roads."

Wyoming—State Hy. Comn., Cheyenne, bridge over Laramie River, State Project 641, Albany Co., to N. A. Swensen, Laramie, $32,756.

Texas—State Hy. Dept., Austin, rein.-con. and steel bridges on Highway 81, Federal Aid Project 440, E. Unit 2, De Witt Co., to Walsh, Burney & Moore, 928 North Flores St., San Antonio, $77,235. Engrs. est. $85,000.

Tex., Houston—City, c/o O. F. Holcombe, mayor, 3 span 400 ft. concrete and steel bridge across Houston Ship Channel, on Adams St., to Standard Constr. Co., Esperson Bldg., $285,800. Engrs. est. $200,000. Noted Aug. 18.

Okla., McAlester—F. Fraser, engr. Pittsburg Co., steel trusses for bridge over Coal Creek, to Illinois Bridge Co., Jacksonville, Ill., $26,450. Engrs. est. $30,000.

Idaho — State Hy. Comn., Boise, constructing Emmett Bridge, three 120 ft. steel spans, etc., over Payette River, to Portland Bridge Co., Yeon Bldg., Portland, Ore., $41,886. Engrs. est. $40,976.

Calif., Galivan (mail El Toro)—State Hy. Comn., Sacramento, one 30 ft., two 40 ft. and two 50 ft. span rein.-con. bridge over Atchison, Topeka & Santa Fe Ry. tracks, Orange Co., near here, to Hewitt-Mille-Shirley, Inc., Los Angeles, $28,977. Engrs. est. $29,995. Noted July 28.

Dams

Bids Desired

Manitoba—Oct. 4, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., control dam and dyke in connection with auxiliary channel for Roseau River, Provencher Co., here. $50,000.

Contracts Awarded

Wash., Seattle—Bd. Pub. Wks., County—City Bldg., constructing Diablo Dam, concrete arch type, on Skagit River, Whatcom Co., to Winston Bros., 801 Ry. Exch. Bldg., Minneapolis, Minn., $2,546,388. Noted Sept. 15.

Railways

Proposed Work

Texas—Houston & Port Arthur Ry., W. H. Doherty, pres., 308 Keystone Bldg., Houston, made plans and takes bids about Jan. 1, 85 mi. railroad from Houston to Port Arthur, incl., 8 bridges, and approximately 10 stations. $4,000,000. W. O. Worth, Keystone Bldg., Houston, engr.

Bids Desired

California—Sept. 28, by Bd. Pub. Wks., San Francisco, special work for Judah St. line of municipal railway system, in San Francisco, for City and San Francisco Co. $275,000. M. M. O'Shaughnessy, city engr.

Ontario—See "Contracts Awarded."

Contracts Awarded

Ontario—Toronto Transportation Comn., Yonge and Front Sts., Toronto, D. W. Harvey, engr., will change gauge approximately 35 mi. single track radial line between Toronto and Sutton, by day labor. $150,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Mass., Boston—New York, New Haven & Hartford R. R., E. Gagel, ch. engr., New Haven, Conn., plans crib wall and solid fill Neponset River, near Granite Ave., here. $25,000.

Ia., Council Bluffs—Making preliminary plans rein.-con. channel 16 ft. wide and 10 ft. deep, for Indian Creek between Oak and Frank Sts., approximately 2,325 cu.yd. concrete, etc. $78,575. B. Walker, City Hall, engr.

Tex., San Benito—Voted $150,000 bonds, draining Lake Agua Negra. Address Mayor.

Calif., Grass Valley—Nevada Irrigation Dist., making plans main canal from Scotts Flat to Wolf Creek, Nevada Co., and main canal and laterals in Placer Co. $2,200,000. F. H. Tibbetts, Alaska Cimmercial Bldg., San Francisco, engr.

Calif., Newport Beach — Plans 750 ft. breakwater at shore end of West Jetty, 100 ft. from beach, etc., P. Kressley, 732 H. W. Hellman Bldg., Los Angeles, engr.

Bids Desired

Ark., Dardenelle — See "Contracts Awarded."

Que., Chicoutimi—Sept. 28, by Harbor Comrs., A. Vian, secy., constructing and filling new wharf wall and piers over Saguenay River. $545,000. A. D. Suan, 1188 Philips Pl., Montreal, engr.

Bids Received

N. Y., Howard Beach (br. Jamaica)—M. Cosgrove, comr. Docks, Pier "A", Battery Pl., North River, New York City, Sept. 15, dredging channel at Howard Beach, Jamaica Bay, here, Contr. 1899, from W. H. Gahagan Realty Corp., Beach 2nd St., Brooklyn, $11,400. Noted Sept. 8.

Tex., Port Arthur—For 14,000 yds. oyster shell for revetment work, from L. A. Lindstrom, Port Arthur, at $2.12 per yd. and $0.87 placing.

Wash., Port Orchard—Kitsap Co., Sept. 4, dredging 72,000 cu.yd. in Port Orchard Bay, from Puget Sound Bridge & Dredging Co., Central Bldg., Seattle at $0.44 per cu. yd.

Contracts Awarded

La., Covington—St. Tammany D. D. 2, G. Steele, pres., drainage canals, levees and

Excavation, Drainage, Irrigation, Levees, River and Harbor (Continued)

central pumping station, etc., to McWilliams Co., Contractors Exch. Bldg., Memphis, Tenn., approximately $340,000.

La., New Orleans—Orleans Levee Bd., New Court House, filling 230,000 cu.yd. Caernarvon Levee, to Orleans Dredging Co., Maison Blanche Bldg., $90,781.

La., New Orleans—Dock Bd., 500 Camp St. two 500 ft. additions to flat deck wharf, here to Hampton Reynolds, Maison Blanche Bldg., $164,013.

O., Cleveland—Cleveland Union Terminal Co., Ulmer Bldg., 600 ft. retaining wall, 30 ft. high, 2½ ft. wide, on Canal Rd., to Hunkin-Conkey Constr. Co., Hunkin-Conkey Bldg.

Ia., Storm Lake—W. T. Kaufman, aud. Buena Vista Co., drainage work in Dist. 152, 15,392 ft. 10- to 34-in. pipe, 7 intakes, etc., to D. Christensen, Rockwell, $5,368; and tile, to Lake View Concrete Tile Co., Lake View, $12,748.

Ark., Dardenelle—Carden Bottoms Levee Dist., c/o D. C. Love, pres., will rebuild Carden Bottom Levee, by day labor. $60,000. E. Hale, Nat'l Bank Bldg., Pine Bluff, engr. Noted Sept. 15.

Ont., Wiarton—Bruce Co. excavating approximately 15,000 cu.yd. rock north of here. to R. C. Huffman Constr. Co., 311 Bay St., Toronto. Engrs. est. $30,000.

Streets and Roads

Proposed Work

Mass., Boston—Dept. Pub. Wks., plans constructing Glendale St. and Wilber Rd. as highway in Dorchester, $25,000; laying out and constructing Parkville Rd. and Auburn St. as highway in West Roxbury, $25,000; also reconstructing Adam St. as highway in Brighton, to exceed $25,000. J. H. Sullivan, comr.

New York—A. W. Brandt, comr, Highways, Albany, rejected bids Sept. 9, constructing 6.29 mi. Highway 1760, Hopewell Junction-Millbrook Rd., Part 3, Dutchess Co. Noted Aug. 25.

N. J., Bradley Beach—Plans asphalt paving 1.5 mi. Ocean Park, LaReine and Brinley Aves. $132,000. F. C. Borden, mayor.

W. Va., New Martinsville—Clay Dist. voted $80,000 bonds, Magnolia Dist. voted $150,000 bonds, and Proctor Dist. voted $144,000 bonds, paving roads in Wetzel Co. W. H. Ramp, New Martinsville, co. engr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 12 mi. Jackson-Chester Co. Line Rd., Madison Co., and 12 mi. Louden-Sweetwater Rd., Louden Co. C. N. Bass, highway comr.

Tennessee — Dept. Highways & Pub. Wks., Nashville, made surveys improving 12 mi. Waverly-Tennessee River Rd., State Rd. 1, Humphreys Co. C. N. Bass, Nashville, comr.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, received no bids Sept. 9, grading and paving, etc., 0.472 mi. Sect. "Warwas" Mt. Vernon-Coshocton Rd., 1.456 mi. Sect. "A-1" Coshocton Rd., both in Coshocton Co., 0.416 mi. Sect. "Mingo Junction North" Ohio River Rd., and 0.813 mi. Sect. "Q" Ohio River Rd.; also retaining wall in Sect. "Q" Ohio River Rd., all foregoing in Jefferson Co.; also cancelled bids to have been opened Sept. 9 grading and paving 0.43 mi. Sect. "Warsaw" Mt. Vernon-Coshocton Rd., Coshocton. Noted Sept. 1.

Mich., Dearborn—Ford Motor Co. making plans one course 7 in. concrete paving approximately 11,500 sq. yd. industrial drives around shops and hangars, Ford Airport. $25,000. Work will probably be done by force account. Private plans.

Mich., Detroit—Making estimates concrete or stone curbing, 3½ in. sheet asphalt on 8 in. concrete and one course 8 in. concrete paving Marlborough Ave. and seven streets. $142,250. P. A. Fellows, city engr.

Mich., Grosse Pointe Park (mail Grosse Pointe)—Made plans concrete curbing, and 3½ in. sheet asphalt on concrete paving 5,600 sq.yd. Balfour Rd. and Jefferson Ave. $25,000. C. H. Marden, 502 Garrick Theatre Bldg., Detroit, engr.

Mich., Mt. Clemens—Macomb Co. made plans one course concrete paving 6 mi. Wolf Rd., 20 ft. $325,000. W. Lehner, Ulrich Bank Bldg., engr.

Ill., Chicago—Cook Co. Hy. Dept., 139 North Clark St., soon takes bids improving 24.7 mi. Irving Park Blvd., Dempster and Oakton Sts., Western, Grand, Lawrence, Belmont, Archer and Harlem Aves. G. A. Quinlan, 139 North Clark St., co. engr.

Kan., Dodge City—Ford Co. plans concrete surfacing, etc. 1.011 mi. Project 64-B, 18 ft. J. W. Thornburgh, Dodge City, engr.

Kan., Lakin—Kearney Co. making plans grading, etc. 6.071 mi. Federal Aid Project 338-A, 28 ft. R. F. Darnell, Lakin, engr.

Mo., Joplin—Soon takes bids squeegee on concrete paving 3 blocks 5th St. and 1 block Murphy Ave.; also asphaltic concrete paving 11 blocks Connor Ave. and 3 blocks Jackson Ave. S. P. Ashcraft, Jr., City Hall, engr.

Mo., Neosho—Soon takes bids concrete paving, etc. 13,050 sq.yd. High, Coler and Wood Sts.; also curbing, guttering, etc. 1,450 ft. Washington St. Black & Veatch, Mutual Life Bldg., Kansas City, engrs.

Mo., St. Joseph—Making preliminary plans wire-cut brick repaving Messanie St. between 16th and 22nd Sts. $16,500, Messanie St. between 22nd and 26th Sts. $14,000; concrete paving, etc., alley between Lafayette and Seneca Sts., Noyes Bldv. to 32nd St., $2,300; also 6 in. concrete paving, etc., Yale St. between Lookout and 1st Sts. $3,700, and Franklyn Alley west of Prospect St. to Prospect St. $740. W. M. Spann, City Hall, engr.

Texas—State Hy. Dept., Austin, rejected bids, bituminous surfacing approximately 383,500 sq.yd. Highway 1, Jeff Davis and Reeves Counties. Will probably readvertise soon for same. R. A. Thompson, Austin, state highway engr.

Tex., Carizzo Springs—Dimmit Co. making plans grading and bridging 9.549 mi. State Aid Project 718-B, on Highway 55, 26 ft. $50,360. J. G. Lott, Carizzo Springs, engr.

Tex., Cold Spring—San Jacinto Co. making plans grading and bridging 7.598 mi. Highway 35, Federal Aid Project 426-C, Unit 1. $45,000. Address W. McMurray, Cold Springs, co. judge.

Tex., Edna—Jackson Co. voted $175,000 bonds, hard paving approximately 11 mi. Highway 12. Address J. T. Vance, Edna, co. judge. Noted April 5.

Tex., Falls City—Voted $40,000 bonds paving approximately 22 blocks various streets. Address Mayor.

Tex., Hearne—Voted $80,000 bonds, paving various streets. H. E. Elrod, 209 Mercantile Bank Bldg., Dallas, consult. engr.

Tex., Huntsville — Walker Co. making plans grading and bridging 12½ mi. Highway 19 from Huntsville north to Riverside. $90,000. D. K. Caldwell, Huntsville, co. engr.

Tex., Laredo—Voted $165,000 bonds, paving various streets. Address Mayor. Noted Aug. 18.

Tex., Ranger—Soon takes bids paving 45 blocks various streets. F. J. Von Zuben, 611 Dan Waggoner Bldg., Ft. Worth, engr.

Tex., Panhandle—Carson Co. making plans grading and bridging, 10.057 mi. State Highway 75 from Gray Co. line to Federal Aid Project 517-B, 26 ft. $27,800. L. O. Cox, Panhandle, engr.

Tex., Panhandle — Carson Co. making plans grading and bridging 8.85 mi. Federal Ai Project 517-B, Unit 1, $27,745. L. O. Cox, Panhandle, engr.

Oklahoma—State Hy. Dept., Oklahoma City, making surveys grading, etc., 9 mi. Dustin-Wetumka Rd., 30 ft. Hughes Co. $30,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Oklahoma—State Hy. Comn., Oklahoma City, made plans grading, 7 in. concrete paving, etc. 10,560 sq. yd. Highway 27, Okmulgee Co. $27,500. C. R. Mandigo, Oklahoma City, engr.

Okla., Carnegie — Making preliminary plans grading and paving 15 blocks streets in residential district, 30 ft. $69,000. Engineer not selected.

Okla., Chickasha—Making plans grading, curbing and sheet asphalt paving 7,450 sq.yd. 6th St. $33,407. R. O. Bradley, Chickasha, engr.

Okla., Duncan—Plans grading, curbing and 6 in. concrete paving 26,670 sq.yd. various streets. $82,100. H. J. Wilkins, Duncan, engr.

Okla., Enid—Plans grading and 7 in. concrete paving 9,400 sq.yd. streets in residential district, $28,000; and 6 in. rein.-con. paving, etc., 9,850 sq.yd. South Market St., $33,000. F. C. Magruder, Enid, engr. Noted Sept. 1.

Okla., Garber—Making preliminary plans paving 10 blocks various streets. $40,000. R. Ayers, mayor. Engineer not selected.

Okla., Okemah — Making preliminary plans grading and 6 in. concrete paving 8,400 sq.yd. West Bway. $25,000. A. C. McCord, Okemah, engr.

Okla Oklahoma City—Plans sheet asphalt paving, etc. 9,060 sq.yd. Walker St. and Avenue F, $36,215; also sheet asphalt paving 1,800 sq.yd. and 7 in. concrete paving, etc. 7,100 sq.yd. Park Pl., 41st, 30th and 39th Sts., $46,747. B. M. Hart, City Hall, engr.

Okla., Oklahoma City — Making plans grading, curbing, and sheet asphaltg paving 5,200 sq.yd. Laird Ave. $25,000. B. M. Hart, City Hall, engr.

Okla., Prague—Voted $25,000 bonds, grading, concrete paving, etc. 8,700 sq.yd. 11th St. and Bway. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Tulsa—Plans grading, curbing and sheet asphalt paving 7,235 sq.yd. Virgin and Independence Sts., $28,000; 6,330 sq.yd. Waco Ave., $27,000; and 7,400 sq.yd. 14th St., $28,000. C. Schultz, City Hall, engr.

Okla., Wakita—Making plans grading, curbing and 6 in. concrete paving, etc. 9,875 sq.yd. Main St. $31,420. E. A. Jones, Enid, engr.

Okla., Waynoka—Making plans grading, paving, etc., 20 blocks streets in business section, 30 to 66 ft. $75,000. E. A. Jones, Enid, engr.

Calif., Los Angeles—E. C. Upp, city clk., plans widening and paving Santa Barbara Ave. between Alameda St. and 3rd Ave., $3,145,000, city appropriated $625,000 towards cost and balance to be paid by property owners; also grading, curbing, guttering and Durite on asphaltic concrete paving, etc. Boulder Pl. and Hillcrest Ave., etc., to exceed $25,000.

Calif., San Diego—Plans grading, curbing, walks and 8 in. concrete paving, etc. 438,717 sq. ft. 51st St., El Cajon and Winona Aves.; grading, curbing, walks and 6 in. asphaltic concrete paving, etc., 355,413 sq. ft. Chatsworth Blvd., Tennyson St., et al, and 113,025 sq.ft. Howard Ave., etc. F. M. Lockwood, city engr.

Ont., Kitchener—Plans concrete curbing, guttering and asphalt on concrete paving, etc., 5,000 sq. yd. various streets, $28,000. S. Shupe, City Hall, engr.

Ont., Toronto—East York Twp. soon takes bids concrete curbing, guttering and bituminous concrete or asphalt on 8 in. concrete paving 5,100 ft. Pope Ave. $100,000. G. R. Jack, 443 Sammon Ave., engr.

Bids Desired

Maine—Sept. 26, by State Hy. Comn., Augusta (**F.A.P. means Federal Aid Project and S.P. means State Project**), grading, and gravel surfacing, etc., 2.48 mi. F.A.P. 92-C, Connor Co., 4.61 mi. F.A.P. 105-B, in Embdon-Solon, 1.67 mi. F.A.P. 107-A, Island Falls, 1 mi. F.A.P. 108-A, Madawaska and 3 mi. S.P. A-R-7, East Millinocket. P. D. Sargent, Augusta, State Hy. Engr.

New Hampshire—Sept. 23, by State Hy. Dept., Concord, 6 in. rein.-con. on 8 in. gravel surfacing, 13,291 sq.yd. Daniel Webster Highway in Hillsboro Co., 18 ft. $60,000. W. N. Prescott, Concord, engr.

New York—Oct. 7, by A. W. Brandt, comr. Highways, Albany, grading, bridging, paving, etc. roads in Albany, Dutchess, Suffolk, Westchester, and Wyoming Counties; also reconstructing highways in Allegany, Broome, Cattaraugus, Franklin, Fulton, Hamilton, Oneida, Orleans, St. Lawrence, and Westchester Counties., adv. E.N.-R. Sept. 22.

New York—Oct. 5, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading and paving 2.5 mi. Hutchinson River Parkway in White Plains and Harrison. J. Downer, Bronxville, ch. engr. adv. E. N.-R., Sept. 22.

N. Y., Brooklyn — Sept. 28, by J. J. Byrne, pres. Brooklyn Boro, grading, curbing, etc. Avenue N, Pennsylvania Ave., East 29th and 50th Sts.; grading and sheet asphalt on existing paving Gerritsen Ave., and bituminous macadam paving Gerritsen Ave.

N. Y., Greece—Sept. 23, at office W. C. Deming, town clk., Memorial Hall, Ridge Rd., sidewalks on Stonewood Ave. and Conrad Dr., in Stonewood-Conrad Sidewalk Dist., and Dewey Ave., Florence, Eglantine, Bartholf, Oakwood Rds. in Oakwood Sidewalk Dist.; also paving Holley and Porter Ave., Castleton and Cleverdale Rds. H. A. Herrick, engr.

N. Y., Irondequoit (mail Rochester)—Sept. 26, by Town Bd., Ridge and Culver Rds., grading, sidewalks and bituminous penetration paving Seymour Rd. Hevenor & Weller, Inc., 5 St. Paul St., Rochester, engrs.

N. Y., New York—Sept. 27, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing, and granite block on concrete paving Broadway Terrace and Fairview Ave.

N. Y., New York—Sept. 28, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading, etc. West 232nd and East 237th Sts., Fish, Colden

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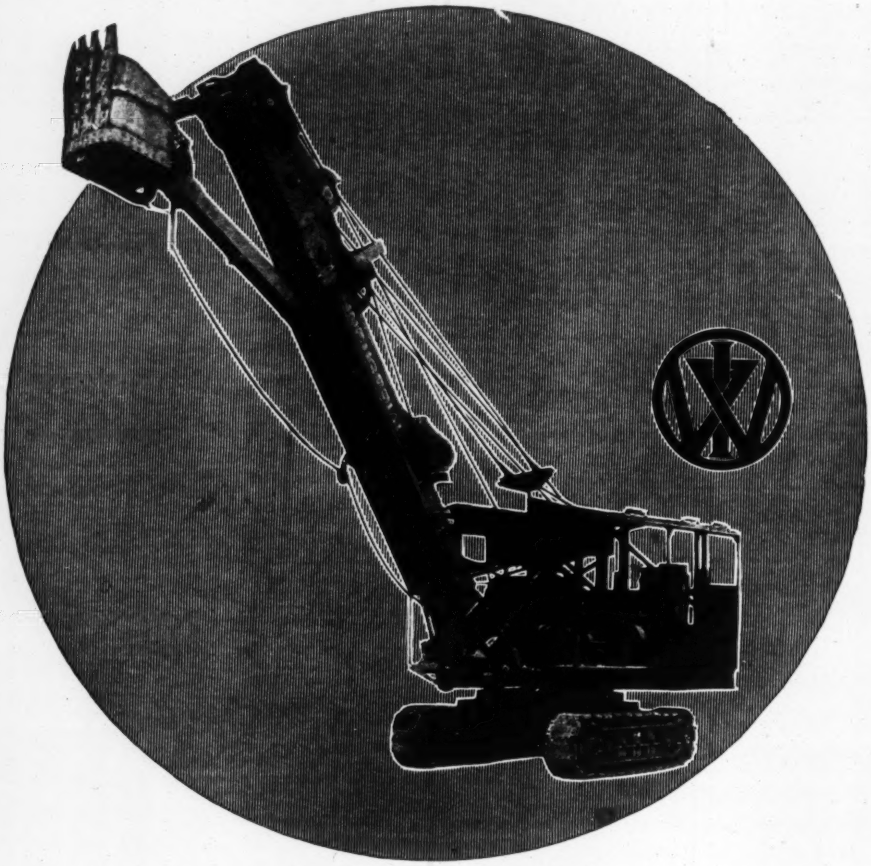

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Packard Building

Pittsburgh, Pennsylvania
Federal Reserve Building

San Francisco, Calif.
Monadnock Building

St. Louis, Mo.
Railway Exchange Bldg.

Streets and Roads (Continued)

and Mayflower Aves.; grading and sheet asphalt on concrete paving Morrison, Ward, Tryon, Popham and Manor Aves.; also grading, curbing, guttering, sidewalks and bituminous concrete on concrete paving, Strong, Folin, 182nd, and East 233rd Sts.

N. Y., New York—Sept. 30, by A. Goldman, comr. Dept Plant & Structures, Municipal Bldg., reconstructing curbing and footwalk on westerly side Riverside Dr. viaduct, Manhattan Boro.

N. Y., Syracuse—Sept. 26, by Bd. Contr. & Supply, asphaltic concrete on 8 in. concrete widening 3,500 sq.yd. Butternut, Tracy and Franklin Sts.; grading, curbing and sheet asphalt on 7 in. concrete paving 6,690 sq.yd.Blossom Rd. East Ave. and Hickory St.; also sheet asphalt on 7 in. concrete paving, etc., 6,520 sq.yd. Lafayette Ave. N. F. Pitts, Jr., City Hall, engr.

New Jersey—Oct. 3, by State Hy. Comn., Trenton, grading and rein.-con. paving 3,722 sq.yd. Route 17-North, Sect. 4, in Hohokus, Bergen Co. A. L. Grover, ch. clk., adv. E. N.-R. Sept. 3.

N. J., Bradley Beach—Sept. 27, by Boro Comrs., grading, curbing, guttering sewers and concrete paving 2,370 sq.yd. Ocean Park Ave.

N. J., Newton—Sept. 29, by Town Com., grading, curbing, guttering, sidewalks and concrete paving 13,318 sq.yd. Union Pl., Linwood Annex, Liberty, Church, Main, Halsted, Madison, Washington, Jefferson, Adams, Hamilton, Moran Sts., W. J. Hardin, town engr., adv. E.N.-R. Sept. 22.

N. J., Woodbury—Sept. 27, by Bd. Freeholders, Gloucester Co., grading and rein.-con. paving 18,684 sq.yd. Hessian Ave. W. C. Chattell, co. engr., adv. E.N.-R. Sept. 22.

Pa., Phila.—Sept. 29, by Dept. Pub. Wks., Bureau Highways, asphalt repaving; redressed granite block repaving; portland cement concrete repaving; paving and repaving certain alleys. G. H. Biles, dir.

Maryland — Sept. 27, by State Roads Comn., Baltimore, concrete paving 1 mi. Contr. F-85, Frederick Co., $27,000; 1 mi. Contr. M-93, Montgomery Co., and 1 mi. Contr. C-59, Cecil Co., J. N. Mackall, chn.

Md., Baltimore—Sept. 28, by Bd. Awards, concrete paving 18,130 sq.yd. streets listed Contr. 437; grading 27,000 cu.yd. Contr. 436. N. L. Smith, City Hall, acting highway engr.

W. Va., Clarksburg—Sept. 30 by Harrison Co. Court stone base or concrete surfacing 1 mi. road in Clark Dist., and 1.5 mi. road in Clay Dist.; grading and concrete or bituminous macadam surfacing 1 mi. road in Coal Dist.; grading, etc. 10.5 mi. road in Sardis Dist., and 1 mi. road in Simpson Dist.; grading and cindering 0.5 mi. road in Eagle Dist.; stone base surfacing 2 mi. road in Grant Dist., 1.5 mi. road in Sardis Dist., and 1 mi. in Simpson Dist.; rock asphalt or mixed macadam surfacing 1 mi. road in Ten Mile Dist.; grading and stone base surfacing 0.5 mi. road in Union Dist.; also building concrete bridge abutments over Little Tenmile Creek, Sardis Dist. M. L. Loudon, co. clk.

W. Va., Harrisville—Oct. 4, by Ritchie Co. Court, improving 2.16 mi. Pennsboro-Pullman-White Oak Rd., clearing 11,450 lin.ft. right-of-way, 21,926 cu.yd. excav., 1,300 lb. reinforcing, 1,110 ft. 15- to 36-in. rein.-con. pipe, etc. D. W. Shock, co. road engr.

Ga., Fitzgerald—Oct. 6, by J. H. Mayes, mayor, and Council, curbing, guttering and paving approximately 21,000 sq.yd. various streets. H. S. Jaudon Eng. Co., Elberton and Fitzgerald, engrs.

Alabama—Oct. 12, by State Hy. Dept., Montgomery, sand clay paving 3.24 mi. roadway between bridge (now under construction) over Chattahoochee River to Federal Aid Project 170-A, Houston Co.; also bridge and approaches over Hatchet Creek, on road between Goodwater and Sylacauga, Coosa Co. W. Finnell, highway dir.

Alabama—Oct. 12, by State Hy. Comn., Montgomery **(S. means State, and F.A.P. Federal Aid Project)**, clearing and grubbing, etc., 2.63 mi. roadway between Wilton and Bibb Co. line, S-44C, Shelby Co., and 17.367 mi. roadway from Florence to Tennessee State line, F.A.P. 195, Lauderdale Co.; grading, etc. 14.95 mi. roadway between Tuscaloosa and Hale Co. lines, F.A.P. 190, Tuscaloosa Co.; concrete paving portion 1st Ave. between 30th and 25th Sts., F.A.P. 164A, Jefferson Co.; sand rock asphalt, limerock asphalt, hot mix, bituminous concrete and sheet asphalt paving 0.907 mi. roadway from Tuskeegee eastward, S-67D, Macon Co.; sand clay paving, etc. 18.448 mi. roadway between Andalusia and Escambia Co. line S-192, Covington Co., and 12.88 mi. roadway between Clio and Brundige S-135, Pike and Barbour Counties; graveling 10.676 mi. roadway between Orrville and west end F.A.P. 169 A, F.A.P. 169 B, Dallas Co.; surfacing roadway from Montgomery to Lowndes Co. line towards Selma, F.A.P. 155, Montgomery Co.; bituminous macadam penetration surfacing 196,000 sq.ft. highway between Jefferson Co. line and Jasper, F.A.P. 116 and 24, Walker Co., and 174,000 sq.yd. highway between Livingston and Mississippi State line by way of York and Cuba, S-27, Sumter Co.; chert surfacing 28,000 cu.yd. roadway from F.A.P. 120 by way of Woodstock to Tuscaloosa Co. line F.A.P. 180A, Bibb Co.; drainage structures on roadway between Tuscumbia and Margerum, F.A.P. 196, Colbert Co.; south approach to bridge over Tennessee River at Decatur, S-190, Morgan Co.; also bridge and approaches over Town Creek on roadway between Tuscumbia and Town Creek, S-101-B, Colbert and Lawrence Counties; and bridge over Sepulga River, on highway between McKenzie and Evergreen, S-222, Conecuh Co. W. Finnell, highway dir.

Ala., Birmingham—Oct. 10, by Bd. Revenue Jefferson Co., asphalt paving 10 mi. extension Mt. Pinson Highway to Mt. Pinson, $90,000; and 6½ mi. Bessemer-Hueytown Highway, $60,000, both 18 ft. wide.

Louisiana—Sept. 29, by State Hy. Comn., Baton Rouge, constructing 26 mi. Sulphur-Cameron Highway, Federal Aid Project 188-A, Unit 1, Cameron Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Ohio—Oct. 9, by G. F. Schlesinger, dir. Hys. and Pub. Wks., grading and paving with **(a)** brick incl. brick **(b)** 2½ in. brick except brick **(c)** 3 in. brick **(d)** concrete **(e)** sheet asphalt **(f)** bituminous macadam **(g)** 2½ in. brick incl. brick, 0.25 mi. Sect. "A-1" Sidney-Urbana Rd., Shelby Co. **(a)** $12,445 **(d)** $8,388, 1.456 mi. Sect. "A-I" Coshocton-Millersburg Rd., Coshocton Co. **(b)** $52,154 **(c)** $53,008, **(d)** $53,275, 0.902 mi. Sect. "Warsaw" Mt. Vernon-Coshocton Rd., Coshocton Co. **(b)** $23,790 **(c)** $24,074 **(d)** $24,018, 2.909 mi. Sect. "D" Bucyrus-Tiffin Rd., Crawford Co. **(d)** $85,062 **(e)** $112,705 and **(f)** $80,547; 1.229 mi. Sect. "Mingo Junction South" Ohio River Rd., Jefferson Co. **(g)** $92,444 **(b)** $95,852 **(d)** $71,793; 2.803 mi. Sect. "B-I" Cleveland-Canton Rd., Cuyahoga Co. **(e)** $154,855 **(c)** $139,322 **(d)** $124,286; 2.489 mi. Sect. "B-2" Cleveland-Canton Rd., Cuyahoga Co., **(e)** $169,813; **(c)** $155,741; **(d)** $137,868; 2.910 mi. Sect "C" Cleveland-Canton Rd., Cuyahoga Co. **(e)** $156,681 **(c)** $137,560 **(d)** $127,443; 4.451 mi. Sect. "I" Bono-Fort Clinton Rd., Ottwa Co. **(d)** $152,069 **(f)** $153,744; also 6.781 mi. Sect. "A," I. C. H. 99, Belmont Co. **(d)** $288,973 **(f)** $296,804; also grading 2.591 mi. Sects. "K," "I," and "M," Pomery-Jackson Rd., Meigs Co. $109,529.

O., Cleveland—Sept. 24, Bd. Comrs., Cuyahoga Co., resurfacing, etc. S.O.M. Center 2: $118,012. Court House, engr.

O., Cleveland—Sept. 28, by City, paving, etc. Euclid Ave. from East 69th to East 79th Sts., and Orange Ave. from East 9th to East 15th Sts. To exceed $50,000. R. Hoffman, City Hall, engr.

O., Cleveland—Sept. 28, by Bd. Comrs. Cuyahoga Co., resurfacing North Woodland Rds. 4 and 6. To exceed $100,000. F. Lander, Court House, engr.

O., Hinckley (br. Medina)—Oct. 15, by Cleveland Metropolitan Park Bd., W. A. Stinchcomb, dir. West 3rd St. and Frankfort Ave., grading Park Dr., here, $60,000. A. W. Zesiger, West 3rd St. and Franklin Ave., Cleveland, engr. Noted Aug. 11.

O., Maple Heights (br. Cleveland)—Sept. 27, by Village, grading and water-bound or bituminous macadam surfacing, etc. 11,350 sq.yd. Bryden Rd., 12,200 sq.yd. Latchwood Rd., 6,670 sq.yd. Hurlingham Rd., and 5,560 sq.yd. Hendown Rd. To exceed $25,000. C. W. Courtney, 1770 East 11th St., Cleveland, engr.

Indiana—Sept. 28, by J. D. Williams, dir. State Hy. Comm., Indianapolis, brick, bituminous concrete or concrete paving F. A. 31 A6, State Rd. 20, Porter Co., F. A. 48 Sect. C-1, State Rd. 29 Laporte Co., and State Rd. 10, Marshall Co.; grading F. A. 92 Sects. B, C, and D, State Rd. 37, Lawrence and Monroe Counties, F. A. 85, Sect. A-1, State Rd. 31, Miami Co., and S-510, State Rd. 57, Greene Co.

Ind., Angola—Oct. 3, by Comrs. Steuben Co., gravel paving William Rummel et al. Rd., Fremont Twp., $7,822; and Chas. Edward Myers et al. Rd., $18,411. F. O. Watkins, aud.

Ind., Brazil—Oct. 4, by Comrs. Clay Co., crushed limestone and gravel paving Henry J. Tiefel, et al. Rd. $57,955. R. E. Barnhart, aud.

Ind., Indianapolis—Sept. 23, by Bd. Pub. Wks., cement paving McCarty St. and Gladstone, Shannon, Graceland Aves; wooden block, brick, asphalt concrete or asphaltic concrete on 6 in. concrete paving Wendell Ave., Correy, Richland, North and Pratt Sts.

Ind., Indianapolis—Sept. 26, by Bd. Pub. Wks., Berea sandstone stratified limestone, granite or concrete curbing, and wood block, brick, asphalt or asphaltic concrete on 6 in. concrete paving Bancroft, New Jersey, Jackson, Laurel and Court Sts., Beechwood, Tacoma, Mills, and Gent Aves.

Ind., Lawrenceburg—Oct 3, by Comrs. Dearborn Co., macadam paving Chris Ennis Rd. $61,455, and George R. Henderson Rd. $13,110. B. McLeaster, aud.

Ind., Lebanon—Oct. 4, by Bd. Comrs. Boone Co., graveling road in Marion Twp. $7,210; concrete paving road, Center Twp. $8,600; graveling road in Center, Perry and Harrison Twps. $12,690, and road in Jackson Twp. $13,400. M. Harvey, Lebanon, aud.

Michigan—Sept. 27 (extended date), at office Houghton Co. Rd. Comn., Hancock bituminous macadam surfacing 9.694 mi. State Trunk Line Rd. M031-19, Contr. 1; and 2.523 mi. M031-18, Contr. 1, both 18 ft., for State Hy. Dept., Lansing. G. D. Tramp, Crystal Falls, resident engr. Noted Sept. 15.

Michigan—Sept. 29, by C. H. Brown, resident engr., 14380 Wyoming Ave., Detroit, concrete paving 4.743 mi. State Assessment Dist. Rd. 294, Oakland and Washtenaw Counties, 20 ft., for State Hy. Dept., Lansing.

Michigan—Oct. 6, by G. D. Tramp, resident engr., Crystal Falls, concrete paving 5.027 mi. Federal Aid Road FO36-13, Contr. 1, 20 ft., Iron Co, for State Hy. Dept., Lansing.

Ill., Chicago — Sept. 22, by Bd. Local Impvts., Room 207, City Hall, 6 to 14 ft. sidewalks on 54 streets and avenues. M. J. Faherty, pres.

Ill., Westmont—Sept. 26, by City, 7 in. rein.-con. paving 61,000 sq.yd. Adams and other streets. $252,000. Kelker, De Lew & Co., 111 West Washington St., Chicago, engrs., adv. E. N.-R. Sept. 22.

Kan., Pratt—Sept. 29, by Pratt Co., grading and bridging 8.938 mi. US 54, Project 91-B. R. S. Kirk, Court House, engr. Noted Sept. 8.

Kan., Wellington—Oct. 13, by Clerk Sumner Co. grading and sand clay surfacing 13.930 mi. Project 66-A, 28 ft. J. W. Mavity, Wellington, engr.

Neb., Hastings—Sept. 26, by City, alternate types paving 2,696 sq.yd. streets in Dist. 140; and 4,100 sq.yd. in Dist. 141. P. T. Naylor, City Hall, engr.

Wyoming—Sept. 30, by State Hy. Comn., Cheyenne, grading, bridging, etc. 87,200 cu. yd. F.A.P. 138-C, Laramie Co., selected material surfacing 11.398 mi. F.A.P. 168-B, Natrona Co.; grading and 3 timber bridges on 11.372 mi. F.A.P. 193-B, Lincoln Co.; and 21 x 98 ft. truck shed, on F.A.P. 682, in Sheridan, also 32 x 60 ft. shed on F.A.P. 678, in Gillette, Campbell Co. Z. E. Sevisin, highway engr.

Tex., San Antonio—See "Contracts Awarded."

Okla., Shawnee—Sept. 20, by J. C. Coleman, city clk., grading, curbing and sheet asphalt paving 5,475 sq.yd. Dist. 56, $31,120. E. T. Archer & Co., 612 New England Bldg., Kansas City Mo., engrs.

Okla., Wewkoa—Oct. 4, by D. R. Fraser, city clk., grading and concrete paving 11,900 sq.yd. streets in Bluff View Addition. $43,386. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Washington—Oct. 4, by State Hy. Comn., Olympia, grading, etc. 282,500 cu.yd. State Road 2, Kittitas Co. S. J. Humes, state highway engr.

Washington—Oct. 11, by State Hy. Comn., Olympia. clearing, grading, etc., approximately 3.6 mi. State Rd. 5, Yakima Co.; and approximately 3 mi. State Rd. 5, Pierce Co. S. J. Humes, highway engr.

Calif., Beverly Hills—Sept. 27, by B. J. Firminger, city clk., curbing, guttering and Topeka paving, etc. Benedict Canyon Dr. J. C. Alberts, city engr.

Calif., Los Angeles—Oct. 3, by Supervs. Los Angeles Co., grading and concrete paving 2.66 mi. Olive St., and 2.81 mi. portion Pomona Blvd. G. W. Jones, Hall of Records, engr.

Calif., San Diego—Oct. 3, by Common Council, grading, curbing and 6 in. concrete paving 198,288 sq.ft. Norragansett Ave. H. W. Jorgensen, city engr. Noted Aug. 25.

Ontario—Sept. 26, by R. M. Smith, engr., Parliament Bldgs., Toronto, traffic bound (tar) macadam paving 4 mi. Meadford Westerly, Contr. 27-99; painting steelwork on Sixteen Mile Creek Bridge, Contr 27-96, and Tansey Creek Bridge, Contr. 27-97, both Dundas Rd., also Dotys Creek Bridge and Thamesford Bridge, Contr. 27-98, for Dept. Pub. Highways, Toronto, $75,000.

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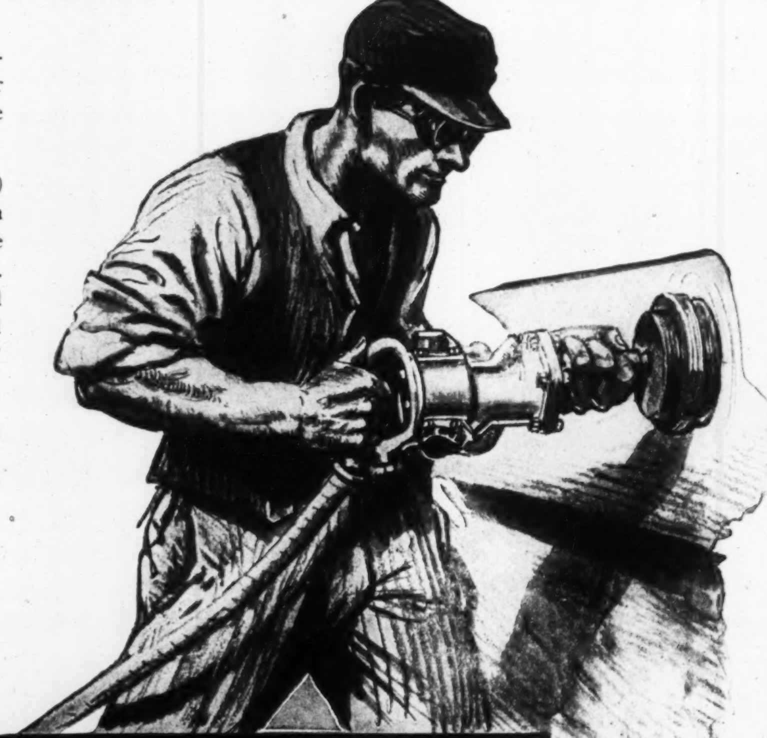
For surfacing concrete — quicker, better, and at less cost



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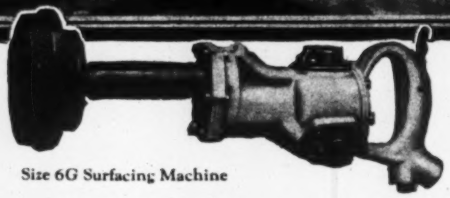

Size 6G Surfacing Machine

117-PC

Ingersoll-Rand

Streets and Roads (Continued)

Contracts Awarded

New Hampshire—State Hy. Dept., Concord, grading and one course rein.-con. on old surface treated gravel surfacing 18,566 sq.yd. East Side Rd., Carroll Co., to D. D. Snyder, Inc., Gardner, Mass., $50,735. Engrs. est. $55,000. Noted Sept. 1.

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 9,500 ft., highway in East Longmeadow, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $55,881; and 11,900 ft. in Sutton and Oxford, to Catanese Constr. Co., Fitchburg, $62,148, both 18 ft. wide.

Massachusetts—Dept. Pub. Wks., Boston, to New Haven Constr. Co., New Haven, Conn., graveling 2,200 ft. highway in Holden, $10,140, to W. H. Hinman, Medway, 8,200 ft. in Bellingham, $18,026, both 18 ft., to W. A. Jones, Barnstable, bituminous concrete paving 3,213 ft. in Barnstable $24,544, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., 23,810 ft. in Harwich, $100,377, rein.-con. paving 12,407 ft. in Lenox and Pittsfield, $144,258, and bituminous macadam paving 17,378 ft. in Russell $163,953 respectively. Grand total $461,298. Noted Sept. 1.

New York—A. W. Brandt, comr. Highways, Albany **(e.e. means engineers estimate)** concrete paving 6.83 mi. Highway 8287, Port Jervis-Wurtsboro Rd., Part 2, Sullivan Co., to Stento & Sarafini, Binghamton, $331,483 e.e. $454,624; 0.17 mi. Highway 1771, Nelliston Village-River St., Montgomery Co., and 3.15 mi. Highway 453, Poughkeepsie-Hyde Park Rd., Highway 9004, Vanderbilt, Dutchess Co., to Westchester Constr. Co., Fort Plain, $8,759 and $212,404 respectively e.e. $9,410 and $295,439 respectively; 5.56 mi. Repair Contr. 3187, Highway 6135, Hyde Park-Staatsburg Rd., Highway 432, Rhinebeck-Hyde Park Rd., Dutchess Co., to Fitzgerald Bros. Constr. Co., Inc., Proctor Bldg., Troy, $402,827 e.e. $535.096; 4.49 mi. Highway 1761, Bangall-Pine Plains Rd., Dutchess Co., to Lane Constr. Co., 37 Colony St., Meriden, Conn., $251,652 e.e. $363,137; 5.38 mi. Repair Contr. 3188 Highway 552, Rhinebeck-Elizaville Rd., Dutchess Co., and 1.73 mi. Repair Contr. 3185, Highway 5092, Red Hook-Rhinebeck Rd., 432 Rhinebeck-Hyde Park Rd., Dutchess Co., to Connell & Laub, Canastota, $369,298 and $102,597 respectively e.e. $528,437 and $151,393 respectively; 5.65 mi. Repair Contr. 3189, Highways 230 and 306, Kingston-Ellenville Rd., Parts 1 and 2, Ulster Co., to Dale Eng. Co., 404 Court St., Utica, $241,488 e.e. 334,743. Grand total $1,920,508. Noted Aug. 25.

N. Y., New York—B. M. Patten, comr. Pub. Markets, Municipal Bldg., grading, paving, etc. Bronx Terminal Market at Exterior and 151st Sts., Bronx Boro, to Del Balso & Sprague, 819 Edgewater Rd., $358,657. Noted Sept. 1.

N. Y., New York—J. Miller, pres. Manhattan Boro, Boro Hall, grading and granite block repaving West End Ave. and Henshaw St., to Asphalt Constr. Co., 2197 Madison Ave., $119,556 and $12,457 respectively. Noted Aug. 25.

N. Y., White Plains—F. L. Merritt, clk. Bd. Supervs., Westchester Co., Court House, rein.-con. and bitulithic paving 2.94 mi. Pelham Rd., Echo Ave. and Main St., to A. E. Ottaviano, Inc., Brook St., Croton-on-Hudson, $563,269. Noted Sept. 8.

Pennsylvania—State Hy. Comn., Harrisburg (**R. means Route and A. Application**), grading, etc. 10,452 ft. A.3760, Monroe Co., to Mapleton Limestone Co., Huntingdon, $16,652; brick on concrete paving 1,901 ft. R.221, Cambria Co., to Duquesne Eng. & Constr. Co., 441 Wabash Bldg., Pittsburgh, $39,524 and 7,066 ft. R.331-289, Lycoming Co., to Busch & Stewart, Inc., 120 South 4th St. Williamsport, $125,195; concrete paving, etc. 45,500 sq.yd. R.55, Sect. 4, Blair Co., to C. Winters Constr. Co., 212 North Main St., Butler $190,200, 8,266 sq.yd. A. 4807, Northampton Co., to R. D. Richardson Constr. Co., 828 Connell Bldg., Scranton $46,882, 51,580 sq.yd. R.200, Crawford Co., to Colonial Constr. Co., 901 Arrott Bldg., Pittsburgh $265,419, 10,600 sq.yd. R.18, Northumberland Co., to Sunbury Cement Products Co., P. O. Box 12, Sunbury $48,186, 40,225 sq.yd. As.216,217 and 4846, Beaver Co., Kemona Lumber Co., Ambridge $190,054; rein-con. paving 7,990 sq.yd. R.509, Dauphin Co., to W. T. Staats Co., 50 West Philadelphia St., York $36,258, 20,235 sq.yd. R.444, A.4806, Lawrence Co., to Wood & Golder, 212 Mechanics St., New Castle $84,076, 20,576 sq.yd. R.140 Lebanon Co., to Pottsville Constr. Co., Mortimer Bldg., Pottsville $97,040, and 6,276 sq.yd. R.214, Butler Co., to W. H. Nicely & Co., Ligonier $30,908. Grand total $1,170,394. Noted Aug. 18.

N. C., Greenville—Sheet asphalt paving, 22,000 sq. yd., various streets, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $50,000.

Ala., Alabama City—Curbing, guttering, walks, etc. on 12 blocks Sansom Ave., to Nixon & Phillips, Lincoln Life Bldg., Birmingham, $25,638. Engrs. est. $26,200.

Ala., Birmingham—City Comm., **(e.e. means engrs. est.)** concrete and brick sewers in 8 blocks in Ave. E., Ensley, to Morgan-Hill Paving Co., Woodward Bldg., $31,320 e.e. $33,200; 7 blocks Pinehurst Sect. (new suburb), to J. J. Goddard, 436 Powell Ave., $11,606 e.e. $12,100; also 5 blocks South Highlands, East Lake, to J. A. Taylor, 1600-10th Ave. S., $8,854 e.e. $13,250. Grand total $51,780.

Miss., Laurel—Asphalt paving one street, and brick on concrete paving 20 streets, to E. A. Finch Co., Citizens Bank Bldg., Hattiesburg, $224,525. Noted May 19.

Miss., Sardis—Panola Co., improving 10.5 mi. main highway from Sardis to Pleasant Grove, 40,000 cu.yd. excav., 6,771 cu.yd. borrow, 7,100 cu.yd. gravel 1 mi. haul, and 6,800 units ½ mi. overhaul, to Novaculite Constr. Co., Marion, $20,836 (150 days).

Louisiana—State Hy. Comn., Baton Rouge, graveling 11.723 mi. Project 167A, Allen Co., to Wimberly & Barbour, Church Point, $58,251. Noted June 9.

La., Natchitoches—Grading and rein.-con. paving, 30,000 yd., Cypress Ave., Jefferson, St. Dennis, New 2nd Sts., etc. to Flenniken Constr. Co., Shreveport, $85,752. Noted Aug. 4.

La., West Monroe—To Gulf Coast Constr. Co., Opelousas, grading and rock asphalt paving Pine St. $38,541, and Clayton St. $16,008; to J. J. Hamiter, Monroe, Auston Ave. $16,170, Stella St. $17,180, North 7th St. $3,551, and Natchitoches St. $23,687. Grand total $115,137. Noted Sept. 1.

Tenn., Cleveland—Grading, curbing and 7 in. concrete paving 4,900 sq.yd. 36th St. 36 ft., to Brown & Pennell, Chattanooga, $23,758. Engrs. est. $35,000. Noted Sept. 1.

O., Cincinnati—C. O. Sherrill, city mgr., curbing, grading, walks and 16,500 sq.yd. asphalt and 33,500 sq.yd. concrete repaving, etc. Erie Ave., to Hannon-Hughes Constr. Co., 911 Atlas Bank, $192,677. Engrs. est. $220,805. Noted Apr. 14.

O, Cleveland — Cuyahoga Co., grading, curbing, guttering and concrete paving, etc. 24,200 sq.yd. Sprague Rd. 4, to N. Siegal, 1668 Eddington Rd., $143,341. Noted Aug. 25.

O., Cleveland—Cuyahoga Co., paving, etc. Columbia Rd., to J. C. Fischer, 16024 Lorain Rd., $172,795.

O., East Liverpool—Improving Orchard Grove Ave., to G. B. Patterson, Wellsville, $25,017. Engrs. est. $25,000.

O., Lakewood (br. Cleveland)—To Enterprise Paving & Constr. Co., 8444 Bway., Cleveland, brick paving Ferndale Ave. $11,654, Northland Ave. $10,035, Williamson Ave. $5,353, and Wilbert Rd. $15,015; also to Cleveland Trinidad Paving Co., Western Reserve Blvd., Cleveland, asphalt paving, etc. Halstead Ave. $33,728. Grand total $75,785.

Indiana — White Co. (Monticello) and Benton Co. (Fowler) constructing Watson Corner Line Rd., to F. Teach, Morocco, $10,688; and Lehe Rd., to J. F. Fenwick, Rensselaer, $24,690.

Ind., Bloomfield—Auditor Greene Co. constructing Roth Rd., to Sherrell-Blackwell Constr., Bedford, $28,002. Noted July 28.

Ind., Crown Point—Lake Co., rein.-con. paving 14,931 ft. Walter G. Wolft St., to J. Sunderman, Gary, $99,250.

Ind., Decatur—Adams Co., to Macklin-Zehr, Decatur, brick and concrete paving Paul Schulte Rd. $28,112, and Jas. Hurst Rd. $28,428; also concrete paving Geo. Weinhoff Rd., $35,330. Grand total $91,870.

Ind., Goshen—Elkhart Co., constructing Highway 5, and Twp. Rd. S-4, to Bontrager Constr. Co., Elkhart, $63,630 and $18,007 respectively; also Road E-3, to D. H. Fisher New Paris, $13,470. Grand total $95,107.

Ind., Indianapolis—Bd. Pub. Wks., concrete paving Lee St., to A. W. Bowen, 2242 Bway., $10,517; asphalt paving Shannon Ave., to Mead Constr. Co., 906 Lemcke Bldg. $18,159, and Birch Ave., to Marion County Constr. Co., 1600 Southwest St. $14,738. Noted July 28. Grand total $43,414.

Michigan—R. W. Roberts, resident engr., Saginaw, concrete paving 2.025 mi. Federal Aid Road. F029-7, Contr. 1, 20 ft. Gratiot Co., to A. Green, South Haven, for State Hy. Dept., Lansing. $59,756.

Michigan—A. R. Schaefer, resident engr., Newberry, grading 5.090 mi. Federal Aid Road F048-4, Contr. 1, 18 ft. Luce Co., to S. J. Groves & Sons Co., 306 Globe Bldg., Minneapolis, Minn., for State Hy. Dept., Lansing. $55,310. Noted Aug. 4.

Mich., Detroit—Berea curbing and 3½ in. sheet asphalt on 8 in. concrete paving Alger and Waverly Aves., to Cleveland Trinidad Paving Co., 402 Hammond Bldg., $29,205; Monte Vista St. and 4 avenues, to Detroit Asphalt Paving Co., 909 Transportation Bldg., $71,339; Dresden Ave., to Cooke Asphalt Paving Co., 1216 Penobscot Bldg., $19,825; and Maiden and Riopelle Aves., to M. R. Hanna Co., Ryan Rd. and Nevada Ave., $59,973. Grand total $180,342.

Mich., Detroit—Stone curbing and 3½ in. sheet asphalt on 8 in. concrete paving 5 avenues, to Detroit Asphalt Paving Co., 909 Transportation Bldg., $114,912; Buena Vista Ave., to Cleveland Trinidad Paving Co., 402 Hammond Bldg., $2,871; and Edmore Dr., to Cooke Asphalt Paving Co., Penobscot Bldg., $30,411. Grand total $148,194.

Ill., Bensenville—Grading, curbing, guttering and paving 91,000 sq. yd. various streets, to Powers-Thompson Co., Joliet, $319,645. Noted Aug. 25.

Ill., Evanston—City and Cook Co., 8 in. rein.-con. paving 28,000 sq.yd. Dempster St., to Arcole Constr. Co., Evanston, $118,828. Noted Apr. 14.

Ill., Geneseo—Paving 3 streets, to H. A. Reschke Constr. Co., Geneseo, $36,947. Noted June 30.

Ill., Maywood—Curbing, guttering and rein.-con. paving 11,700 sq.yd. 19th Ave., to S. Jaicks, 77 West Washington St., Chicago, $51,371. Noted Sept. 1.

Ill., Winchester—Grading, curbing, and 7 in. rein.-con. paving 17,037 sq.yd. Main St. and around court house, to McElwee & Rogy, Peoria, $41,652. Engrs. est. $47,500. Noted June 30.

Wisconsin—State Hy. Comn., Div. Office 4, Wisconsin Rapids, concrete paving, etc. 40,700 sq.yd. Kilbourn-Mauston Rd., Federal Aid Project 445, and grading, graveling, etc. 2.865 mi. West County Line-Union Center Rd., Federal Aid Project 448-A, both Juneau Co., to Kramp Constr. Co., Berlin, $99,042 and $45,577 respectively.

Wisconsin—State Hy. Comn., Div. Office 2, Stephensen Bldg., Milwaukee, concrete paving, etc. 72,883 sq. yd. Blue Mound Rd., Federal Aid Project 268-A, Milwaukee Co., to Kroening Constr. Co., 5th St. and Windlake Ave., Milwaukee, $202,336. Noted Aug. 25.

Wis., Whitefish Bay—Dept. Pub. Wks., to McGucken & Vander Heyden Co., 314 Ave., Milwaukee, concrete paving Birch Ave. $3,861, Morris Blvd. $5,797, and Hampton Rd. $29,250; to Kroening Constr. Co., 5th St. and Windlake Ave., Milwaukee, Richards St. $30,236; and to Lex Constr. Co., 446-68th Ave., West Allis, 1 alley $661. Grand total $69,805.

Ia., Corning—Grading, curbing and vibrolithic concrete paving 16,000 sq.yd. various streets and concrete paving 4,000 sq.yd. various alleys, to F. C. Akin, Corning. Engrs. est. $115,000. Noted Aug. 18.

Ia., Dysart—Paving 5,500 sq.yd. various streets, to Larson Constr. Co., Albert Lea, $9,636; and 32,091 ft. curbing and guttering, to Hahn Constr. Co., 1105 12th Ave. W., Cedar Rapids, $31,208. Noted May 5.

Ia., Ft. Dodge—Grading, curbing and vibrolithic concrete paving 9.080 sq.yd. and gravel surfacing 245 sq.yd. 8th St., 6th, 7th, and Highland Park Aves., North 9th and 8th Sts., to M. L. Flinn Paving Co., 218 Grain Exch. Bldg., Sioux City. Engrs. est. $30,000. Noted Aug. 25.

Ia., Ida Grove—Ida Co., to G. W. Condon Co., 415 Farnum St., Omaha, Neb., improving county road system, 102,527 cu.yd. excav. at $0.205 per cu.yd., 90,340 sta.yd. overhaul $0.02, and 760 ft. culvert labor $0.20.

Ia., Sac City—Sac Co., to Nelson & Sauer, Lake View, improving Primary Project 157, 34,700 cu.yd. excav. at $0.295 per cu.yd., 190 ft. 12- to 24-in. culvert labor at $0.20 to $0.40 per ft., etc.

Ia., Spencer—Clay Co., to A. B. Teepell, Lake View, county road maintenance work, 13,300 cu.yd. gravel 1 mi. haul at $0.32 to $0.43 per cu.yd., and 92,950 units ½ mi. haul $0.075 and $0.085.

Minnesota—State Hy. Comn., St. Paul, grading, etc., approximately 73,000 cu. yd. State Project 1-26, between Steele Center and Ellendale, to Klemmer Constr. Co., Owatonna, $29,016.

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Streets and Roads (Continued)

Minn., Robbinsdale—C. F. Wislon, village mgr., grading, etc., 90,000 cu.yd. streets in McNair Manor, to M. Wunderlich, 1221 Blair St., St. Paul, $66,987. Noted Sept. 1.

Kan., Atchison—Clerk Atchison Co., grading and culverts on 6.817 mi. Federal Aid Project 274-D, 30 ft., to Zeigler Bros., Junction City, Kan., $36,828. Noted Aug. 25.

Kan., Eldorado—Butler Co., to M. R. Ammerman, Wichita, grading 7.991 mi. Project 67-F $57,526, to Stimson Constr. Co., N. E. Bldg., Topeka, 4.557 mi. Project 69-A $19,532, and 3.788 mi. Project 68-B $12,520, also 3 bridges on latter project $9,995. Grand total $89,573. Noted Sept. 1.

Kan., Holton—Jackson Co., sand or gravel surfacing 9.558 mi. Project 112 B, C and E, to D. A. Koehler, Sterling, Neb., $21,717. Noted Aug. 25.

Kan., McPherson—Grading, curbing and concrete paving 16,699 sq.yd. various streets, to J. H. Shears & Sons, P. O. Box 296, Hutchinson.

Kan., Ottawa—Franklin Co., grading and concrete paving 4.794 mi. Federal Aid Project 280-A and C, 18 ft., to Cook & Stucker, Ottawa, $107,676. Noted Aug. 26.

Kan., Seneca—Nemaha Co., grading and culverts on 9.135 mi. Project 310-C, to D. Scherrer, Kansas City, $46,924; 60 ft. steel truss and two 30 ft. I-beam span bridge to Loomis Constr. Co., St. Joseph, Mo., $11,069. Noted Aug. 11.

Neb., Grand Island—Asphaltic concrete paving 7,472 sq.yd. streets in Dist. 71, and sheet asphalt paving 4,679 sq.yd. streets in Dist. 72, to Diamond Eng. Co., Grand Island at $2.18 and $2.36 per sq.yd. respectively.

Neb., Plattsmouth—M. Klinger, city clk., rein.-con. paving, etc. 20 blocks various streets, to John Kerns Constr. Co., 1809 Dodge St., Omaha. Engrs. est. approximately $40,000. Noted May 19.

North Dakota—State Hy. Comn., Bismarck (**F.A.P. means Federal Aid Project**), to W. W. Noel & Co., Jamestown, graveling 5.03 mi. F.A.P. 15, Sargent Co. $16,384, 7.96 mi. F.A.P. 158 $20,706, and 5.049 mi. F.A.P. 233-A $10,786, both Steele Co.; to J. A. Jardine Bridge Co., Fargo, 0.189 mi. F.A.P. 17, Griggs Co., $11,601; to Miller & Wieuger, Fort Pierre, 9,749 mi. F.A.P. 260-G, Stark Co., $30,094; to Shelp & Malloy, Lemon, S. D., 9.933 mi. F.A.P. 284 $34,835, and 0.939 mi. F.A.P. 301-C $7,400, both Mountrail Co.; to Win Connau, Goodrich, 15.059 mi. F.A.P. 288-A, Bottineau Co. $14,949, and 6.012 mi. F.A.P. 288-B, Renville Co. $5,572; to M. E. Thompson, Minot, 7.188 mi. F.A.P. 389, Bottineau Co. $19,353; to F. O. Smith & Co., Steele, 5.12 mi. F.A.P. 314-A, Oliver Co. $22,831; to W. Collins, Lakota, 11,982 mi. F.A.P. 319-A, Towner Co. $36,680, and 6.258 mi. F.A.P. 352-A, Wells Co. $15,719; to Hettinger Bridge Co., Hettinger, constructing bridge on F.A.P. 284 $12,412, and F.A.P. 301-C $7,481, both Mountrail Co., to C. O. Burnstad, Burnstad, F.A.P. 305-D, Morton Co. $28,800, to J. Simons, Mandau, F.A.P. 305-D $2,535, to C. V. Anderson, Baldwin, F.A.P. 314-A, Oliver Co. $2,416, and to Dakota Concrete Co., Minot, F.A.P. 319-A, Towner Co. $4,758. Grand total $305,312.

Montana—State Hy. Comm., Helena (**F.A.P. means Federal Aid Project**), grading, etc. 122,667 cu.yd. F.A.P. 244-A, Madison Co., to Hartwig & Sullivan, Dillon $82,531, 79,882 cu.yd. F.A.P. 77-D, Jefferson and Broadwater Counties, to J. N. Brown & Son, Bozeman $43,604 and 88,839 cu.yd F.A.P. 157-A, Custer and Rosebud Counties, to Prahl & Sawtelle, Miles City $35,981; grading, crushed graveling, etc. 4,904 cu.yd. F.A.P. 187-C, Yellowstone Co., to F. E. Collison, Billings $40,589, 6,460 cu.yd. F.A.P. 193-A, Roosevelt Co., to Stevens Bros., 612 Endicott Bldg., St. Paul, Minn. $63,288; scoria surfacing, etc. 13,813 cu.yd. F.A.P. 86-C, Unit 1, Fallon Co., to J. M. Carter, Billings $57,556; constructing two 38 ft. timber and two 57 ft. trestle bridges, on F.A.P. 157-A, Unit 2, Custer and Rosebud Counties, to L. V. Lockwood, Glasgow $6,451, also 57 ft. timber pile bridge, on F.A.P. 187-C, Unit 2, Yellowstone Co., and 25 ft. timber pile bridge, on F.A.P. 86-C, Unit 2, Fallon Co., to A. E. Lyle & Co., Billings $2,410 and $4,350 respectively. Grand total $336,760.

Mo., St. Joseph—Park Comrs., 2 in. asphalt on 6 in. concrete paving, 32,354 sq.yd. Northeastern and Northwestern extensions Parkway Blvd., to Metropolitan Paving Co., Donnell Court, $85,612. Noted Aug. 11.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, 80,000 cu.yd. earth embankment for approaches to Delmar Blvd. Viaduct over Wabash R.R. tracks between Hamilton and Rosedale Aves., to Nolan & Kraus Constr. Co., 4525 Chouteau Ave. $51,360. Engrs. est. $80,000. Noted Aug. 4.

Mo., Springfield—See "Sewers."

Texas—State Hy. Dept., Austin, grading and concrete paving 6.4 mi. Highway 6, Galveston and Harris Counties, to Muller & Roberts, Hitchcock, $248,711.

Texas—R. A. Thompson, state highway engr., Austin, asphalt paving 386,781 sq.yd. highway from Carrizo Springs to Dilley, Dimmit and Frio Counties, to Lone Star Constr. Co., c/o Alamo Bank Bldg., San Antonio, for State Hy. Dept., Austin. Approximately $70,000.

Tex., Amarillo—Potter Co., brick paving 5 blocks Van Buren St. from 6th to 10th Sts., to L .H. Howard, Amarillo, $24,807. Engrs. est. $30,000. Noted July 14.

Tex., Conroe—Montgomery Co., grading and drainage structures on 6 mi. Highway 19 to Sullivan & Davis, Granger, $23,913.

Tex., Edinburg—State Hy. Dept., Austin, bituminous surfacing 151,178 sq.yd. highway from Edinburg north to Brooks Co. line, Hidalgo Co., to Uvalde Co., c/o City Natl. Bank Bldg., San Antonio, $30,235.

Tex., Hamilton—Rolled rock asphalt on 8 in. sledge stone paving various streets, to Brown & Root, 1904 Post-Dispatch Bldg., $80,000.

Tex., Houston—Constructing Henderson St. from Washington to West Capitol Sts., to Smith Bros., 2402 West Dallas St., $20,878, engrs. est. $25,000; also 2 in. asphalt on 6 in. concrete paving Travis St. from Polk Ave. to a point 120 ft. south of Dennis St., to A. M. Arnold & Co., Summer and Elder Sts., $69,142, engrs. est. $75,000. Noted Sept. 15.

Tex., Laredo—State Hy. Dept., Austin, grading, etc., 12.4 mi. Highway 12-A, Webb Co., to H. B. Zachary, Laredo, $34,815.

Tex., Palestine—Anderson Co., rein.-con. paving 10⅜ mi. Federal Aid Project 453 C, Highway 43, to S. W. Gaylord, Oklaunion, $263,587. Noted Aug. 18.

Tex., Panhandle—Carson Co., grading, etc. 14 mi. Highway 33, 18 ft., to C. H. McLellan, Wichita Falls, $37,440.

Tex., San Antonio—Grading, raising, filling, asphalt topping 8 blocks West Evergreen, Agarita and Euclid Sts., to Uvalde Rock Asphalt Co., Frost Natl. Bank Bldg., approximately $25,000.

Tex., San Antonio—City will widen and pave 2 blocks Buena Vista St. from Santa Rosa Ave. to San Saba St., by day labor. $75,000. I. Ewig, city engr.

Tex., Sweetwater—Nolan Co., 8 in. concrete paving 15.3 mi. Highway 18 ft. from Sweetwater to Taylor Co. line, to J. C. Fields, Denison, $376,186, engrs. est. $450,000. Noted Sept. 1.

Oklahoma—State Hy. Dept., Oklahoma City (**F.A.P. means Federal Aid Project and e.e. means engrs. est.**), concrete slab surfacing 45,417 sq.yd. Mulhall-Guthrie Rd., F.A.P. 139-A and 40,129 sq.yd. same road, Sect. B, both Logan Co., to Green-Boots Co., 519 West Main St., Oklahoma City, $100,595 and $94,898 respectively, e.e. $110,000 and $100,000 respectively; 67,584 sq.yd. Orlando-Mulhall Rd., F.A.P. 139-D, Logan Co., to H. L. Cannady & Co., 1122 South Lewis St., Tulsa, $154,478, e.e. $165,000. Grand total $349,971.

Okla., Billings—Grading and concrete paving 9,100 sq.yd. Central St., to Green-Boots Co., 519 West Main St., Oklahoma City, $24,449. Engrs. est. $27,000. Noted Apr. 14.

Okla., Cordell—Washita Co., grading and graveling 46,000 sq.yd. Roads 2, 5 and 6, to J. W. Mann, Cotton Exch. Bldg., Oklahoma City, $184,210. Engrs. est. $200,000.

Okla., Elk City—Grading, curbing and 6 in. concrete paving, etc. 8,710 sq.yd. North 9th St., to Standard Paving Co., 1742 East 6th St., Tulsa, $26,318. Engrs. est. $30,000.

Okla., Muskogee—Grading and 6 in. concrete paving 16,630 sq.yd. Dist. 54, to Gravelle-Hamblin Co., Manhattan Bldg., Muskogee, $50,687. Engrs. est. $55,000.

Okla., Oklahoma City—Sheet asphalt paving 5,600 sq.yd. 14th St. and Euclid Ave., to Western Paving Co., Tradesmens Bldg., $30,591. Engrs. est. $31,000.

Okla., Oklahoma City—Grading and sheet asphalt paving 9,150 sq.yd. 15th St., to Western Paving Co., Tradesmens Bldg., $46,499. Engrs. est. $46,915.

Okla., Seminole—Grading, curbing 7 in. concrete paving, etc. 6,700 sq.yd. streets in Dist. 11, to Ward, Beekman & Brooks, 1801 East 9th St., Oklahoma City, $28,006. Engrs. est. $28,016. Noted July 7.

Okla., Wewoka—D. R. Fraser, city clk., grading, curbing and 6 in. concrete paving 45,300 sq.yd. streets in Dist 10, to Hansen & Pearce, Perrine Bldg., Oklahoma City, $176,075. Engrs. est. $177,268. Noted Aug. 18.

Idaho—State Hy. Comn., Boise, crushed rock surfacing, etc., 36,390 cu.yd. Federal Aid Project 51-A, North and South Highway between Tammack and Round Valley, Washington Co., to March Constr. Co., Spokane, Wash., 1½ in. base $79,280 or 3 in. base $83,979.

Washington—State Hy. Comn., Olympia, crushed rock surfacing, etc. 15,000 cu.yd. State Rd. 5, Kittitas and Yakima Counties, to A. L. Smith, Hardman, Ore., $42,583; crushed graveling 12,000 cu.yd. State Rd. 3, Jefferson and Clallam Counties, to R. A. Sloane, New Richmond Hotel, Seattle, $16,775; and concrete paving approximately 300 ft. Pacific Highway, Brier Crest Fill, King Co., to C. L. Creelman, 1079 25th Ave. N., Seattle, $3,643. Grand total $63,001. Noted Aug. 25.

Washington—State Hy. Comn. (**S.R. means State Road**), grading, etc. 20,000 cu.yd. Inland Empire Highway Eastern Route, Whitman Co., to J. E. Edwards, 1423 South Adams St., Spokane $7,503, and 195,000 cu.yd. S.R. 9, Federal Aid Project 113, Jefferson Co., to Strong & MacDonald, Inc., 1214 Puget Sound Bank Bldg., Tacoma $295,872; crushed rock surfacing, etc. 14,000 cu.yd. S.R. 11, Spokane Co., to A. Milne, 1853 East Bway., Portland, Ore. $34,900, 25,000 cu.yd. S.R. 3, Ferry Co., to Triangle Constr. Co., 1220 Ide Ave., Spokane $44,962, and 4,000 cu.yd. S.R. 3, Spokane Co., to F. R. Hewett, 2415 Manito Blvd., Spokane $7,000; concrete paving, etc. 33,000 sq.yd. S.R. 1, Snohmoish Co., and 84,500 sq.yd. S.R. 2, King Co., to J. L. Smith Constr. Co., 304 West 36th St., Seattle $90,608 and $210,356 respectively; also constructing box culverts on S.R. 2, King Co., to S. K. Sorenson, Mukeltio, $12,690. Grand total $703,891. Noted Aug. 18.

Washington—State Hy. Comn., Olympia, graveling, etc. 3.82 mi. Federal Aid Project 142-D, King Co., to A. Besoloff, 1715-12th St., Seattle, $135,880.

Wash., CleElum — Concrete paving 4 blocks 1st St. and Pennsylvania Ave., 72 ft., to McHugh & Coluccio, 517 3rd Ave. N., Seattle, $26,049.

Wash., Vancouver—Comrs. Clarke Co., grading, graveling, etc. 2.5 mi. County Permanent Highway 12, to O. D. Wolfe, Washougal, $28,037.

Oregon—State Hy. Comn., Salem, broken stone surfacing, etc. 10,290 cu.yd. Condon Market Rd., Gilliam Co., to A. Milne, Portland $28,708; and Crater Lake Highway, Jackson Co., to C. L. Camp, Gold Hill, $38,387.

Ore., Portland—Grading, crushed rock surfacing and graveling, etc. 1,660 cu.yd. Welland St., to Lindstrom & Feigenrsen, Worcester Bldg., $50,767. Engrs. est. $48,310.

Calif., Alhambra—To Hall Johnson Co., 905 Westminster, improving Main St., 2,260 lin.ft. curbing at $0.54 per lin.ft. 8,715 lin.ft. guttering $0.22, 3,535 lin.ft. walks $0.16, and 136,938 sq.ft. 2½ in. asphaltic concrete paving $0.182 per sq.ft., etc., total $35,954.

Calif., La Mesa—Bd. Supervs., grading, curbing, walks and 6 in. concrete paving 86,207 sq.ft. Lemon and Dale Sts., to D. H. Ryan, Spreckels Bldg., $33,946.

Calif., Los Angeles—To G. R. Curtis, 2440 East St., grading, curbing, guttering and asphaltic concrete paving, etc. 12th St. betwe n Queen Anne Pl. and Rimpau Blvd., $26,208; to Gibbons & Reed, 221 East San Fernando Blvd., Burbank, grading, curbing, guttering and 8 in. concrete paving, etc. 4th and Rita Sts. $206,475, grading, and concrete paving, etc. Burbank Blvd. between Lankershim and Van Nuys Blvds. $141,240, and Nordhoff Ave. between Lindley and Tampa Aves. $44,595; to G. H. Oswald, 366 East 58th St., York Blvd. between Glassell Ave. and Aguillar Way, $370,847; and to M. McGuire, 4166½ South Figueroa St., Whitley Ave. between Grave and Franklin Aves., $137,555. Grand total $926,920.

Calif., Sacramento—Sacramento Co., to A. Teichert & Sons, 1846 37th St., 3 in. Willite paving 1 mi. Lower Sacramento Rd. at $0.187 per sq.ft.; to E. F. Hilliard, 1355 43rd St., 9 x 6 x 9 in. concrete paving 1½ mi. River Rd., 16 ft., and ¼ mi. roadway east of Birden, 20 ft., $0.23, etc.; also portion Sacramento River Highway $39,040. Noted Sept. 1.

Calif., San Diego—Curbing, walks and 2 in. Warrenite on 4 in. asphaltic concrete paving 313,568 sq.ft. Upas and Myrtle Sts., to G. R. Daley, 4430 Boundary St., $82,076.

Ont., Hamilton—Will pave with asphalt Chestnut, Beechwood, Francis, Gage, Pearl

Streets and Roads (Continued)

and Manchester Sts., by day labor, under supervision W. L. McFaul, city engr. $80,000.

Ont., Smith Falls—Concrete curbing, guttering and asphalt on concrete paving 5,000 sq.yd. various streets, to Standard Paving Co., Ltd., Central Chambers, Ottawa. Engrs. est. $25,000.

Ont., Windsor—Asphalt and concrete paving various streets, to Cadwell Sand & Gravel Co., 228 Sandwich St. W., $59,584; to Premier Constr. Co., 924 Windsor Ave., $51,320; and to S. P. West, Sandwich, $48,303. Grand total $159,207.

Buildings—Commercial

Proposed Work

Mass., Boston—OFFICE—Macmillan Co., F. J. Flag, 30 Huntington Ave., plans 3 or 4 story and basement, 40-42 Fairfield Ave., here. $150,000. Engineer and architect not selected.

Mass., Boston—STORES—J. W. French, 73 Tremont St., having plans prepared by L. G. Brackett, 88 Tremont St., seventeen 1 story and basement, irregular shaped, brick and stone, plain foundation, Olive Pl., Washington and Waltham Sts. $150,000.

Mass., Cambridge (br. Boston)—MERCANTILE—H. H. Gulesian, 85 Commonwealth Ave., Newton, having preliminary plans by Funk & Wilcox, 26 Pemberton Sq., Boston, 3 story and basement, 125 x 180 ft. rein.-con. and brick, plain foundation, Brookline, Tudor and Emily Sts., here. $150,000.

Mass., Newburyport — MASONIC TEMPLE—Masonic Temple Assn., G. E. Stickney, Bd. Trustees, plans raising $150,000 funds, masonic temple, Green St. Engineer and architect not selected.

Mass., Plymouth—TEMPLE—Plymouth Lodge A. F. & A. M., 3 story and basement, brick, plain foundation, Court St., to G. Howard & Sons, Olympia Bldg., Brockton. Archts. est. $150,000 or more.

Mass., Wellesley (br. Boston)—STORE OFFICE and SHOP—Owner, c/o C. H. Waterman, Pemberton Bldg., Boston, having preliminary sketches made by F. A. Norcross, 46 Cornhill, Boston, 2 story and basement, irregular shaped, brick and stone, plain foundation, Grove and Washington Sts., Wellesley Sq., here. $300,000.

Mass., Worcester — APARTMENT—H. Coonan, 31 Maplewood Rd., had plans prepared by E. T. Chapin, 304 Main St., 3 story, brick and steel, Pleasant St. $150,000. Noted June 2.

Conn., Bristol — CLUB—Bristol Boys Club, Old Town Hall, Main St., plans raising $150,000 funds, new club, Laurel St. Engineer and architect not selected.

Conn., Hartford — PROFESSIONAL — Equitable Real Estate Co., 750 Main St., plans professional building Asylum St. To exceed $150,000. Engineer and architect not selected.

N. J., Atlantic City — APARTMENT — Owner c/o A. F. Amodio, archt., 45 Branford Pl., Newark, having plans prepared 7 story and basement, brick and steel, plain foundation, here. $500,000.

N. J., Belleville (br. Newark)—APARTMENT—Owner, c/o N. Harris, archt., 20 Branford Pl., Newark, having plans prepared 5 story and basement, 50 x 125 ft., brick and steel, plain foundation, 169-71 Washington St. $150,000.

N. J., Bloomfield—APARTMENT—J. Olmen, 46 Maolis Ave., having plans prepared by S. Singer & A. G. Branch, 60 Park Pl., Newark, 6 story and basement, brick and steel, plain foundation, here. $250,000. Noted June 16.

N. J., Bloomfield—APARTMENT—Owner, c/o R. Kruger, archt., 60 Branford Pl., Newark, having sketches made 5 story and basement, brick and steel, plain foundation, here. $150,000.

N. J., Jersey City—CLUB—Polish American Democratic Club, 22 Liberty Ave., having revised plans prepared by P. Simeone & Co., Inc., 100 Sip Ave., 3 story and basement, 75 x 100 ft., brick and steel, plain foundation, Liberty Ave. $150,000. Noted Apr. 14.

N. J., Jersey City—GARAGE—H. Byrne, 392 Mercer St., having plans prepared by A. Davis, 140 Montgomery St., 1 and 2 story, 200 x 300 ft., brick and steel, plain foundation, Mill Rd. from Mercer to Wayne Sts. $150,000.

N. J., Montclair—APARTMENT—R. H. Sellers, 17 Grove St., having new plans prepared by N. Harris, 20 Branford Pl., Newark, 5 story and basement, brick and steel, plain foundation, 77 Grove St., here. $325,000. Noted June 9.

N. J., Ridgewood—APARTMENT—G. A. Orth, 60 Goodwin Ave., having sketches made by H. Paddon, 1350 Bway, New York City, 3 story and basement, brick and steel, plain foundation, Liberty St. $150,000.

N. J., Ridgewood—THEATRE, STORE and OFFICE—North Oak Impvt. Co., c/o P. Vivarttas, archt., 110-48th St., Union City, soon takes bids 3 story and basement, brick and steel, plain foundation, Oak St. and Franklin Ave. $500,000. Noted Sept. 8.

Pa., Phila.—APARTMENT—M. A. Bernhardt, archt., 127 South 18th St., preparing plans 10 story and basement, 80 x 90 ft., rein.-con., brick and steel, plain foundation, 39th and Sansom Sts., for S. Levick, Bankers Trust Bldg. $3,000,000.

Pa., Phila.—GARAGE—J. E. Fieldstein, archt., Otis Bldg., soon takes bids 1 story, 104 x 215 ft., 115 x 204 ft., rein.-con., brick and steel, plain foundation, Rochelle and Wissahickon Sts. Owners name withheld.

Pa., Phila.—THEATRE—Hodgens & Hill archts., 130 South 15th St., soon takes bids 1 story and basement, 108 x 224 ft., rein.-con., brick and steel, plain foundation, 8th and South Sts., for Rexy Theatre Co., c/o architects. Former bids rejected. Noted Aug. 25.

Pa., Pittsburgh—FIRE and POLICE STATION—Dept. Pub. Safety having plans prepared by R. Neff, city archt., and soon takes bids, 3 story and basement, brick and steel, Broad St. $350,000.

Pa., Pittsburgh—OFFICE and WAREHOUSE—Iron City Electric Co., 436-8 7th Ave., having plans prepared by Hunting, Davis & Dunnells, Century Bldg., and soon takes bids 7 story and basement, 50 x 117 ft., rein.-con., brick and steel, 7th Ave. $300,000.

N. C., Charlotte — APARTMENT—Charlotte Apartment House Corp. plans 8 or 10 story and basement apartment. $1,000,000. Engineer and architect not announced.

O., Cleveland—APARTMENT—H. Hradilek, Park Bldg., had plans prepared 3 story and basement, brick, steel and concrete, Edgewater Dr. $300,000. Private plans.

O., Cleveland—APARTMENT—J. Mulholland and associates, 702 Leader Bldg., having preliminary plans prepared 5 story and basement, 52 x 130 ft., brick and steel, Edgewater Dr. and West 117th St. $150,000. Engineer and architect's name withheld.

O., Cleveland—COMMERCIAL and THEATRE—Edgewater Realty Co., c/o Goodman-Shapiro Co., 636 Engineers' Bldg., having plans prepared by A. F. Janowitz, 811 Prospect Ave., 2 story and basement, brick, steel and concrete, Ridge and Pearl Rds. $250,000.

O., Cleveland—HOTEL—Cleveland Hotel Co. having plans prepared by Graham, Anderson, Probst & White, 80 East Jackson Blvd., Chicago, Ill., brick, steel and concrete addition, Public Sq. $1,500,000.

O., Newark—THEATRE—Midland Theaters Corp., Marietta, plans new theatre, here. $175,000.

O., Youngstown—MERCANTILE—Community Stores Corp. plans 2 story and basement, 100 x 150 ft., Indianola and Market Sts. $150,000.

Ill., Chicago — APARTMENT HOTEL and CLUB—Bryn Mawr Beach Hotel Co., B. Marshall, archt. and vice pres., 612 Sheridan Rd., Wilmette, plans 17 story, 250 x 300 ft., Sheridan Rd. between Catalpa and Bryn Mawr Aves. $5,000,000. Bryn Mawr Beach Building Corp. will construct the building. Steel contract for same awarded to Amer. Bridge Co., 108 South La. Salle St. Archts. est. $5,000,000.

Ill., Chicago — APARTMENT—Kenmore Avenue Building Corp., c/o R. F. France & Co., archts., 155 North Clark St., having plans prepared 13 story and basement, 60 x 135 ft., rein.-con., brick and stone, 5820 Kenmore Ave. $600,000.

Ill., Chicago—APARTMENT—P. F. Reynolds, 8 South Dearborn St., having plans prepared by McNally & Quinn, 8 South La Salle St., 12 story and basement, 86 x 153 ft., rein.-con., brick and stone, 1500 Lake Shore Dr. $2,000,000. Noted Apr. 14.

Ill., Chicago—OFFICE and STORE—E. M. Willoughby, 77 West Washington St., having sketches made by S. N. Crowen & Co., 22 West Monroe St., 36 story and basement, 80 x 109 ft., Madison St. and South Michigan Ave.

Minn., Kensington—MONUMENT—Kensington Runestone Foundation of Minnesota, had sketches made by Jenson & Foss, 511 Essex Bldg., Minneapolis, monument with square stone shaft 200 ft. high on circular foundation 46 ft. diam. $300,000.

Kan., Rosedale—WARD and NURSES' HOME—State Bd. Administration State House, Topeka, soon takes bids 5 story and basement, 42 x 94 ft., and 29 x 84 ft. ward building, $200,000, also 5 story and basement, 47 x 87 ft. nurses' home, $100,000, rein.-con., brick, stone and steel, here, for University of Kansas School of Medicine. C. D. Cuthbert, State House, Topeka, archt. Noted Aug. 25.

Neb., Wilber—COURT HOUSE—Saline Co., J. M. Korbel, clk., takes bids about Dec. 1, 3 story and basement, 70 x 100 ft. rein.-con. and stone court house, jail and sheriff's residence. $250,000. M. L. Evans, Brandeis Bldg., Hastings, archt. Noted Sept. 1.

Mo., St. Louis—APARTMENT—Owner, c/o C. E. Etz, archt., 110 North 7th St., having preliminary plans prepared 3 story and basement, 180 x 187 x 260 ft., rein.-con., brick and terra cotta, South Kingshighway, $500,000.

Tex., Bryan—HOTEL—R. W. Howell soon lets contract 7 story and basement, 51 x 100, rein.-con., brick and steel, Main and 27th Sts. $250,000. G. L. Walling, 806 Scarsborough Bldg., Austin, archt. Noted Apr. 7.

Tex., Fort Worth — APARTMENT HOTEL—G. T. Vickers, 913 1st Natl. Bank Bldg., Ft. Worth, and J. H. Jones, Goggan Bldg., Houston, having plans prepared by Wyatt C. Hendricks, Inc., 1005 1st Natl. Bank Bldg., 10 story and basement, rein.-con., brick, stone and steel, Rio Grande and Summit Sts. $1,000,000.

Tex., Marshall—HOSPITAL—R. P. DeWitt, archt., 1229 Kirby Bldg., Dallas, soon takes bids 2 story and basement, 40 x 186 ft., rein.-con., brick and steel, here, for Texas & Pacific R.R. Co., E. F. Mitchell, ch. engr., $200,000. Noted Aug. 25.

Tex., San Angelo — OFFICE — Western Reserve Life Insurance Co., c/o J. M. Shannon, having preliminary plans prepared 10 story and basement, brick, plain foundation, $350,000.

Tex., San Antonio—BANK and OFFICE—Central Co., c/o F. Groos, et al c/o Groos Natl. Bank, having preliminary plans prepared by H. T. Phelps, Hick Bldg., rein.-con., brick and stone, plain foundation, Commerce and Navarro Sts. $400,000.

Tex., San Antonio — HOME—Salvation Army takes bids after Oct. 1, 7 story, rein.-con., brick and hollow tile, plain foundation, Presa and College Sts., $150,000. A. B. and R. M. Ayres, 626 Bedell Bldg., engrs. Noted July 28.

Tex., San Antonio — HOTEL, CLUB, GYMNASIUM and GARAGE—San Antonio Turn Verein (Athletic Club), c/o A. Von Jess, Houston and Nacogdoches, Sts., had plans prepared by L. Harrington & Co., archts. and engrs., c/o Builders Exch. Bldg., and takes bids about Nov. 1, 26 story and basement, rein.-con. and brick, plain foundation, Travis, Houston and Nacogdoches Sts. $1,500,000.

Okla., Oklahoma City—HOTEL—Syndicate, headed by C. Moreau, 1st Natl. Bank Bldg., having preliminary plans prepared 24 story and basement, 100 x 140 ft., Grand St. $2,000,000. Engineer and architect not selected.

Okla., Oklahoma City—HOTEL—L. W. Wentz, Ponca City, having preliminary plans prepared 10 story and basement, 125 x 140 ft., rein.-con. and brick, plain foundation, 4th St., here. $1,000,000. Engineer and architect not selected.

Okla., Oklahoma City—MARKET—J. J. Harder, Inc., Tradesmens Bldg., having preliminary plans prepared 2 story, rein.-con. and brick, plain foundation, Reno St. and Western Ave. $250,000. Private plans.

Okla., Shawnee — BANK — State Natl. Bank having preliminary plans prepared by J. T. Davis, Shawnee, 6 story and basement 50 x 140 ft., rein.-con. and brick, plain foundation, Main St. $200,000.

Okla., Shawnee—HOTEL—H. D. Phillips having plans prepared by A. C. Davis, Shawnee, 6 story and basement, 100 x 140 ft., rein.-con. and brick, plain foundation, Bway. $300,000.

Okla., Tulsa—OFFICE—C. C. Cole, Cole Bldg., having preliminary plans prepared 20 story and basement, 75 x 140 ft., steel, plain foundation, 5th St. $1,500,000. Engineer and architect not selected.

Okla., Tulsa—OFFICE—R. T. Daniels, Daniels Bldg., having preliminary plans prepared 27 story and basement, steel, plain foundation, Cincinnati St. $1,500,000. Engineer and architect not selected.

Okla., Waurika—COURT HOUSE—Jefferson Co., having preliminary plans prepared 3 story and basement, rein.-con. and brick, plain foundation, Main St. $200,000. Engineer and architect not selected.

Buildings—Commercial (Continued)

Okla., Wewoka — HOTEL — J. Absher having preliminary plans prepared by J. Davis, Snawnee, 4 story and basement, 50 x 150 ft., rein.-con. and brick, plain foundation, Wewoka St. $150,000.

Okla., Wewoka — THEATRE — Wewoka Theatre Co. had plans prepared by J. J. Davis, Shawnee, 2 story, 75 x 140 ft., rein.-con. and brick, Main St. $150,000.

Wash Seattle—HOTEL—H. A. Vance, c/o V. W. Voorhees, archt., Lloyd Bldg., had plans prepared 18 story and two basements, 600 room, brick and terra cotta, 3rd and Union Sts. $1,500,000.

Ore., Baker—HOTEL—S. R. Booth of Pomeroy Bridge Co., Ry. Exch. Bldg., and T. W. Baker of Baker Constr. Co., 333 Oak St., both Portland, having plans prepared by L. L. Dougan, Kreamer Bldg., Portland, 100 room hotel, Grand Ave., here. $400,000.

Calif., Colusa—HOTEL—Local Businessmen forming organization to finance construction fireproof hotel. $150,000. W. H. Weeks, 369 Pine St., San Francisco, archt.

Calif., Daly City (Ind. br. San Francisco) — THEATRE — Jefferson Theatre having plans prepared by C. H. Jensen, 605 Market St., San Francisco, 1 story, steel and concrete theatre. $150,000.

Calif., Del Rio (mail Sacramento)—HOTEL—T. Scobel Co., 336 Kearney St., San Francisco, plans 2 story, frame and stucco hotel, here. $175,000. Engineer and architect not selected.

Calif., Glendale—HOTEL—H. S. McCormick and associates, 110 West Wilson St., had preliminary plans prepared by A. B. Rosenthal, 6001 Santa Monica Blvd., Los Angeles, 5 story, 60 x 100 ft., Harvard and Orange Sts. $200,000.

Calif., Hollywood—STUDIO—L. West, 5501 Carlton Way., Los Angeles, having preliminary plans prepared by E. H. Lambert, 4073 Beverly Blvd., motion picture studio, here. $1,400,000.

Calif., Los Angeles—APARTMENT—F. Webster, archt., Guaranty Bldg., Hollywood, preparing plans 4 story, 90 x 160 ft., brick, Franklin Ave. $200,000. Owner's name withheld.

Calif., Los Angeles—OFFICE—Los Angeles Realty Bd., 621 South Flower St., plans purchasing site and constructing office building. $300,000. Engineer and architect not selected.

Calif., Los Angeles—THEATRE—Vega Corp., 5625 Whittier Blvd., having plans prepared by W. E. Chadwick, Union League Bldg., 1 story and balcony, 80 x 150 ft., rein.-con., incl. auditorium 1,500 seating capacity, Atlantic Ave. and Whittier Blvd. $150,000.

Calif., Oakland — TEMPLE — Oakland Labor Temple Assn. plans fireproof labor temple. $325,000. Engineer and architect not selected.

Calif., Oxnard—THEATRE and LODGE—Odd Fellows Lodge of Oxnard, plans fireproof, 4th and B Sts. To exceed $150,000.

Calif., Pasadena—APARTMENT—S. W. Bradley, having preliminary plans prepared by W. E. Chadwick, 417 Union League Bldg., Los Angeles, 4 story, 110 x 160 ft., brick apartment, $175,000.

Calif., Redwood City — STORE — Hare, Brewer & Clark, Inc., 130 University Ave., Palo Alto, having plans prepared by Reid Bros., 105 Montgomery St., San Francisco, 1 and 2 story, concrete, Bway. $150,000.

Calif., San Francisco — CLUB — Decimo Club, T. M. Cole, chmn., 358 Flood Bldg., having plans prepared by W. F. Gunnison, Shreve Bldg., 14 story and basement, probably rein.-con. and steel, Eddy and Larkin Sts. $2,000,000.

Calif., San Francisco—TEMPLE—Islam Temple of Mystic Shrine, Shrine Temple, plans 24 story and basement, Masonic temple and office building, in downtown section. $5,000,000. Engineer and architect selected soon.

Calif., San Pedro—OFFICE—W. F. Durr, archt., 128½ West 6th St., preparing preliminary plans approximately 7 story and basement office, in vicinity 5th St. To exceed $250,000. Owner's name withheld.

Calif., San Rafael — HOTEL — Paloma Inn., 603 Lincoln Ave., having plans prepared by C. H. Jensen, 605 Market St., San Francisco, fireproof addition. $150,000.

Calif., San Rafael — THEATRE — J. Albert, 4th and B Sts., having plans prepared by Reid Bros., 105 Montgomery St., San Francisco, 1 story, 4th St. $150,000.

Calif., Santa Cruz — COURTHOUSE — Santa Cruz Co. plans (1st unit) fireproof courthouse. To exceed $175,000. Engineer and architect not selected.

Calif., Santa Maria — HOTEL — J. E. France, c/o L. N. Crawford, archt., Jones Bldg., having preliminary plans prepared 2 story hotel, North Bway. $150,000.

Calif., Santa Monica—MAUSOLEUM—Woodlawn Cemetery takes bids about Sept. 24, 1 story, rein.-con. with 380 crypts, at Woodlawn Cemetery. $180,000. W. H. Hubbard, 110 Sutter St., San Francisco, archt.

Ont., Hamilton—MARKET—City having plans prepared by McPhie & Kelly, Sun Life Bldg., 1 or 2 story and basement, 27 x 300 ft., concrete, brick and steel, McNab St. $150,000.

Ont., Toronto—APARTMENT—Superior Realty Co., Ltd., c/o Kaplan & Sprachman, archts., 305 Dundas St. W., soon lets contract 4 story and basement, 42 x 112 ft., concrete, brick and steel, Lawrence Ave. and Yonge St. $500,000. Excavation contract for above to Shenton & Cronin, 391 Keele St.

Ont., Toronto—GARAGE and SHOWROOM—A. D. Gorrie & Co., 354 Victoria St., plans 2 story and basement, 50 x 100 ft., concrete, brick and steel, Gerrard St. E. $150,000. Engineer and architect not selected.

Ont., Toronto—OFFICE—Canadian Bank of Commerce, King and Jordan Sts., having plans prepared by Darling & Pearson, 2 Leader Lane, 10-12 story and basement, concrete, brick, steel and stone office building. $2,500,000.

B. C., Vancouver—CITY HALL—Plans election in January, $1,000,000 bonds, new fireproof city hall, Central School Grounds. Engineer and architect not selected. Noted July 14.

Bids Desired

Mass., Attleboro—HOME, CLUBHOUSE and STORE—B.P.O.E., 1014, c/o O'Malley & Fitzsimmons, archts., Fanning Block, Pawtucket, R. I., taking bids 2 story and basement, brick and stone, plain foundation, Winter St. $150,000 to $175,000. Noted Sept. 1.

Mass., Boston — QUARTERS—Sept. 28, by City, Hospital Dept., 7 story and basement, brick and limestone, plain foundation, officers and internes quarters, Harrison Ave. $150,000. J. H. Ritchie & Assocs., 250 Stuart St., archts. This corrects report in Sept. 15 issue.

Mass., Brookline (br. Boston)—APARTMENTS—See "Contracts Awarded."

R. I., Providence—APARTMENT—See "Contracts Awarded."

Conn., Danbury — HOME — Sept. 24, B.P.O.E., F. J. Kernick, 2 story, 68 x 134 ft., rein.-con., brick and steel, Main St. $150,000. Sunderland & Watson, 248 Main St., archts. Noted

N. Y., New York—APARTMENT—Bela Bldg. Corp., 1588 Washington Ave., taking bids 6 story, brick, Decatur Ave. $200,000. Glick & Dumas, 375 East Fordham Rd., archts.

N. Y., New York—OUT-PATIENT DEPARTMENT and DORMITORY—Oct. 17, by Bd. Trustees Bellevue & Allied Hospitals, C. A. Perilli, acting pres., 415 East 26th St., general contract out-patient department and female dormitory, at New Bellevue Hospital, 26th St. and 1st Ave.

N. Y., Riverhead—COURTHOUSE—Sept. 26, by Bd. Supervs. Suffolk Co., 3 story and basement, 115 x 117 ft., stone, here. $500,000. M. V. Liddle, Mattituck, archt.

N. J., Bloomfield — APARTMENT — See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awerded."

N. J., North Caldwell (mail Caldwell)—CELL HOUSE and PENITENTIARY—Oct. 5, by Bd. Freeholders Essex Co., Court House, Newark, altering 60 x 250 ft., brick and steel, plain foundation, here. $500,000. Former bids rejected. C. W. Wands, 309 Bloomfield Ave., Caldwell, archt. Noted Aug. 25.

N. J., Orange—APARTMENT—See "Contracts Awarded."

N. J., Plainfield—MASONIC CLUB—F. B. and A. Ware, archts., 1170 Bway., New York City, taking bids 5 story and basement, 118 x 125 ft., brick and steel, plain foundation, 621 Park Ave., here, for Masonic Realty Assn., 127 Watchung Ave. $200,000.

N. J., South Orange—APARTMENT—See "Contracts Awarded."

N. J., Trenton—TEMPLE—O. Schmidt, archt., 201-02 Union Natl. Bank Bldg., Atlantic City, taking bids 3 story and basement, 50 x 110 ft., brick and steel, plain foundation, Elizabeth St. and Pennington Ave., here, for Most Worshipful United Grand Lodge. $150,000. Noted May 17.

N. J., Westfield — APARTMENT — See "Contracts Awarded."

N. J., Westfield—Sept. 26, by J. F. Jackson, archt., 137 East 45th St., New York City, general contract 3 story and basement, brick and steel, plain foundation, Ferris Pl. and Clark St., here, for Y.M.C.A., 116 Elm St. $300,000. Noted Aug. 25.

Ky., Louisville—GARAGE and STORE—See "Contracts Awarded."

O., Cleveland—OPERATING STATION and GARAGE—Sept. 28, by Cleveland Ry. Co., J. D. Alexander, pres., Hanna Bldg., 3 story, 125 x 125 ft, brick, steel and concrete, East 9th St. $175,000. W. Watson and associates, 4614 Prospect Ave., engr. and archt.

O., East Cleveland (br. Cleveland)—COMMERCIAL and APARTMENT—B. D. Roseman, pres., Midland Mortgage Co., Society for Savings Bldg., Cleveland, taking bids 3 story and basement, 60 x 140 ft., brick, Superior and Taylor Rds. $150,000. M. Weiss, Union Bldg., Cleveland, archt.

Ind., Gary—COURT HOUSE—Oct. 4, by Comrs. Lake Co., G. M. Foland, aud., Crown Point, 3 story and basement, rein.-con., brick and stone court house, here. $500,000. J. T. Hutton, Hammond Bldg., Hammond, archt.

Ind., Hammond—APARTMENT — Davis Apartment Co. taking bids 3 story and basement, brick, steel and stone, Davis St. in Robertsdale, here. $150,000. A. C. Berry, Ruff Bldg., archt.

Ind., Jeffersonville — THEATER — H. Switow, 651 West 4th St., Louisville, Ky., taking bids Le Rose Theater, 3 story and basement, 50 x 145 ft., brick, steel and stone, Spring St., here, $150,000. C. J. Epping, 625-3rd St., Louisville, Ky., archt.

Ill., Chicago — APARTMENT HOTEL and CLUB—See "Contracts Awarded."

Ill., Chicago — AQUARIUM — Graham, Anderson, Probst & White, archts., 80 East Jackson Blvd., taking bids aquarium octagonal structure, 100 ft. high, 300 ft. diam., incl. 132 exhibition tanks, two reservoirs with 2 m.g. capacity, stone, on circular tract of land in Grant Park, for John G. Shedd Aquarium Society, c/o M. A. Traylor, 38 South Dearborn St. $3,000,000. Noted June 30.

Wis., Milwaukee—APARTMENT—Sept. 24, by C. Keller & Sons, archts., 522 Van Buren St., 6 story and basement, 55 x 101 ft., rein.-con. and brick, plain foundation, Jackson St., for Eastern Realty Co., Milwaukee. $250,000. Noted Sept. 8.

Minn., Stillwater—PRISON—Sept. 29, by Comrs. Administration & Finance, State Capitol, St. Paul, 3 story and basement, rein.-con. and stone addition to prison, incl. steel cells, here. $250,000. C. H. Johnston, 360 Roberts St., St. Paul, archt. Noted June 2.

Neb., Kimball—COURT HOUSE—Sept. 28, by D. T. Heynen, clk. Kimball Co., 3 story, rein.-con., brick and stone court house. $175,000. E. L. Goldsmith & Co., Scottsbluff, archt. Noted June 2.

S. D., Watertown—COURT HOUSE—Oct. 4, by R. H. Stein, aud. Codington Co., 2 and 3 story and basement, rein-con., brick and stone court house. $350,000. U. L. Freed, Watertown, archt. Perkins & McWayne, Paulton Blk., Sioux Falls, associated archts. Noted May 6.

Mo., Kansas City—HOTEL—See "Contracts Awarded."

Tex., McAllen—HOTEL and STORE—See "Contracts Awarded."

Tex., Marshall—HOSPITAL—Sept. 30, by R. P. DeWitt, archt., 1220 Birby Bldg., Dallas, 2 story and basement, 40 x 186 ft., rein.-con., brick and steel, hospital for Texas & Pacific R. R. Hospital Assn., $200,000.

Tex., Port Arthur—MASONIC TEMPLE—Oct. 15 (extended date), by Masonic Temple Assn., Port Arthur, 4 story and basement, 95 x 100 ft., rein.-con., brick and steel building, here. Archts. est. $150,000. W. B. Ittner, Inc., 911 Locust St., St. Louis, Mo., archt. Noted Aug. 25.

Tex., San Angelo—COURTHOUSE—Oct. 3, by Tom Green, Co., c/o J. T. Mathison, judge, 2 story and basement, 64 x 175 ft., brick, stone and steel, rein.-con. $270,000. A. F. Korn, 816 Thomas Bldg., Dallas, archt. Noted Aug. 18.

Calif., Decoto—DORMITORY—Sept. 26, by Mooser & Bolles, archts., Nevada Bank Bldg., San Francisco, two 4 story, brick, terra cotta and rein.-con., for Bd. Trustees

Buildings—Commercial (Continued)

of Masonic Homes, c/o architects. $150,000 or more.

Calif., El Centro — THEATRE and STORE—J. P. Perrine, archt., Lincoln Bldg., Los Angeles, taking bids here, 60 x 140 ft., and 120 x 140 ft., rein.-con. and stucco, 7th and State Sts., for West Coast Theatres, Inc., c/o architect. $150,000. Noted Apr. 7.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles—STUDIO, etc.—Mack Sennett Co., Hollywood, taking bids (selected list of contractors), 2 story, 100 x 125 ft., rein.-con. administration building, near Ventura Blvd. and Laurel Canyon Rd. $350,000. H. Cross, 555 Metropolitan Theatre Bldg., archt. Noted July 14.

Calif., Oakland—CLUB—Miller & Warnecke, archts., 1404 Franklin St., taking bids 7 story and basement, brick and steel, incl. auditorium, gymnasium, library, swimming pool, etc., Alice St., for Womens City Club, c/o architects. $300,000.

Calif., Ventura—THEATRE and OFFICE—L. A. Smith, archt., Film Exch. Bldg., Los Angeles, taking bids 3 story and basement, rein.-con., 1,500 seating capacity, Main St., for Amer. Amusement Co., c/o architect. $250,000.

B. C., Tranquille—HOSPITAL—Sept. 30, by P. Philip, engr., Dept. Pub. Wks., Victoria, 3 story, 100 bed, 35 x 250 ft., rein.-con., Sanatorium Grounds, here, for Provincial Govt., Victoria, $200,000. H. Whittaker, Dept. Pub. Wks., Victoria, archt.

B. C., Victoria—HOSPITAL—Sept. 29, by C. E. Watkins, archt., Broad St., 4 and 5 story, 40 x 280 ft., rein.-con., Hospital Grounds, for St. Josephs Catholic Hospital, $300,000. Noted Oct. 14, 1926.

Bids Received

Calif., San Francisco — THEATRE—H. A. Minton, associated archt., Bank of Italy Bldg., theatre, 5,200 seating capacity, on block bounded by Hayes, Market and Polk Sts., from MacDonald & Kahn, Financial Center Bldg., approximately $1,600,000. Noted Aug. 4.

Contracts Awarded

N. H., Nashua—THEATRE—Harrisy & Barry, c/o J. A. Tuck, archt., Park Sq. Bldg., Boston, 1 story and basement, 70 x 150 ft., brick and steel, plain foundation, to C. I. Smith, 30 Winsor Ave., New Haven, Conn. Architect's est. $150,000. Noted Aug. 4.

Mass., Boston — HOSPITAL—Massachusetts General Hospital, Fruit St., remodeling 4 story and basement, brick out patient building, plain foundation, Fruit St., to A. C. Lootz, c/o owner. Archts. est. to exceed $150,000.

Mass., Boston — SALES and SERVICE GARAGE — Studebaker Sales Co., 109 Brookline Ave., 2 story and basement, 105 x 245 ft., rein.-con.and steel, plain foundation, Jersey and Boylston Sts., to F. V. Van Etten Co., 100 Boylston St. Archts. est. $150,000 or more.

Mass., Brookline (br. Boston)—APARTMENT—L. H. Levenson, 43 Wyoming St., Roxbury, will build 3 story, 60 x 200 ft., brick and steel, St. Paul St. and Longwood Ave., by day labor. $150,000. M. E. Levy, 7 Water St., Boston, archt. Noted Apr. 14.

Mass., Brookline (br. Boston)—APARTMENTS—Silberstein & Willis, 161 Devonshire St., Boston, will build 3 story and basement, brick and stone, plain foundation, St. Paul St. and Longwood Ave., here. $150,000. Work wil be done by separate contracts. S. E. Moffie, 51 Cornhill, Boston, archt.

Mass., Brookline (br. Boston)—TEMPLE Congregation Obebie Shalon, 11 Union Park St., Boston, superstructure 1 story, basement and tower, irregular shaped, brick and limestone, Beacon St., to Center Constr. Co., 6 Beacon St., Boston. Archts. est $350,000. Noted June 30.

Mass., New Bedford—TERMINAL—E. T. Fisher & Co., Union and Water Sts., 2 story, 70 x 100 ft., rein.-con., brick and steel, Union St., to J. W. Bishop Co., 555 Pleasant St. Archts. est. $150,000. Noted Sept. 8.

R. I., Providence — APARTMENT — Stephens Realty Corp., Potters Ave., will build 4 story and basement, 110 x 120 ft., brick and stone, plain foundation, Elmwood Ave., Daboll and Mauney Sts. $300,000. Work will be done by separate contracts. Private plans.

Conn., Stamford—APARTMENT—Owner, c/o W. Schimitz, archt., 174 Greenwich Ave., Greenwich, 3 story, 80 x 108 ft., brick and steel, Glenbrook Rd., to Wood Co., Main St. Archts. est. $150,000. Noted Aug. 4.

N. Y., New York—BARRACKS—B. S. Coler, comr. Pub. Welfare, Municipal Bldg., general contract altering and constructing additions to male barracks, City Home Dist., Welfare Island, to Kaufman & Snyder, 165 West 46th St., $89,250. Noted Sept. 1.

N. J Bloomfield—APARTMENT—Pennington Realty Co., 72 Pennington Ave., Passaic, will build 5 story and basement, 105 x 120 ft., brick and steel, plain foundation, 55 Monroe Pl. $175,000. Work will be done by separate contracts. A. Ginsburg, 390 Franklin Ave., Nutley, archt. Noted Sept. 8.

N. J., Newark—APARTMENT—Sanford Heights Development Co., 830 Sanford Ave., will build 3 story and basement, brick and steel, plain foundation, 779-781 Sanford Ave. $150,000. Work will be done by separate contracts. V. H. Strombach, 1243 Springfield Ave., Irvington, archt.

N. J., Orange—APARTMENT—Chanset Realty Co., 786 South 13th St., Newark, will build 5 story and basement, 48 x 115 ft., brick and steel, plain foundation, Central Ave. and Centre St. $175,000. Work will be done by separate contracts. S. Cohen, 134 Branford Pl., Newark, archt. Noted Sept. 15.

N. J., South Orange—APARTMENT—C. Mairarty Constr. Co., Westward Pl., will build 4 story and basement, 125 x 175 ft., brick and steel, plain foundation, South Orange Ave. $400 000. Work will be done by separate contracts. D. H. Trevor, 45 Branford Pl., Newark, archt. Noted Sept. 15.

N. J., Westfield—APARTMENT—Crystal Holding Corp., 47 Elm St., Elizabeth, will build 4 story and basement, 90 x 125 ft., brick and steel, plain foundation, Prospect and Cowperthwaite Sts., here. $175,000. Work will be done by separate contracts. Kasoff & Flatt, 164 Market St., Newark, archts.

Pa., Oil City—THEATRE— G. J. and J. D. Veach, and M. Marks, Oil City, general contract 3 story and basement, 180 x 240 ft., brick and hollow tile, Seneca St., to Day & Zimmerman, Inc., 16th and Walnut Sts., Phila. and C. W. and G. L. Rapp, 190 North State St., Chicago, Ill. Archts. est. $800,000. Noted June 23.

Pa., Pittsburgh—BANK and OFFICE—Amer. Bank & Trust Co., 6th Ave. and Grant St., general contract 6 and 8 story and basement, 60 x 90 ft., brick and steel, 6th Ave. and Grant St., to Rust Eng. Co., 311 Ross St. Archts. est. $500,000. Noted June 9.

Pa., Pittsburgh—HOTEL—A. W. Mellon and J. E. Weston, Rusken Apartments, general contract 22 story and basement, approximately 60 x 120 ft., hotel, Diamond St. and Cherry Way, to H. L. Stevens & Co., 522 5th Ave., New York City, excavation to R. M. Netherlands Co., Maloney Bldg. Archts. total est. $2,000,000.

Pa., Pittsburgh — WAREHOUSE—May Drug Co., May Bldg., and Hunting, Davis & Dunnells, archts., Century Bldg., general contract 5 story and basement, 72 x 132 ft., rein.-con. and brick, Penn Ave., to H. Miller & Sons Co., 2565 5th Ave. Archts. est. $500,000. Noted Aug. 18.

Md., Baltimore—OFFICE—C. N. and N. Friz, archts., Lexington Bldg., 2½ story, 71 x 111 ft., brick, steel and stone, Fayette and Holliday Sts., to H. A. Knott & Co., 2107 North Charles St., for Central Fire Insurance Co., Baltimore and Holliday Sts. $250,000. Noted Aug. 5.

Ga., Atlanta — CLUBHOUSE—Burge & Stevens, archts., 101 Marietta St., 2 story, 48 x 205 ft. club house, and 1 story 56 x 60 ft. bath house, rein.-con., stucco and stone, to Griffin Constr. Co., 308 Spring St., for Capitol City Club, E. Rivers, pres., Palmer Bldg. $200,000.

Ky., Louisville—GARAGE and STORE—J. G. Brown, W. G. Apartments, will build 2 story, 100 x 300 ft. garage, and 1 story, 70 x 285 ft. store, rein.-con. and brick, by day labor. Archts. est. $300,000.

Ky., Louisville—MEMORIAL HOME—E. T. Hutchings, archt., South 5th St., general contract 3 story and basement, 145 x 155 ft., rein.-con. and brick, plain foundation, Cherokee Rd., to Otis & Bruce, Starks Bldg., for Moorman Memorial Home, Cherokee Rd., to exceed $200,000. Noted Feb. 24.

Ky., Louisville—THEATRE and STORE—L. Schuster, 2160 Baringer Ave., 1 story and balcony, 66 x 133 ft., rein.-con. and brick, plain foundation, Eastern Parkway and Bardstown Rd., to Webb-Clark Co., 4th and Liberty Sts., $150,000.

O., Cleveland—STORE—A. Carlin, Euclid Hotel, 3 story and basement, 34 x 126 ft., brick, steel and concrete, Euclid Ave., to Crowell & Little Constr. Co., Hanna Bldg. Archts. est. $150,000. Noted Aug. 4.

Ind., Gary—CITY HALL— G. W. Maher, archt., 157 East Erie St., Chicago, Ill., general contract 2 story and dome, 788,200 ft., concrete and stone city hall, to General Constr. Co., Gary. Noted June 23.

Ind., Goshen — TEMPLE — Masonic Temple general contract brick and steel, Jefferson and 5th Sts., to Sollitt & Sons, South Bend, $150.000.

Ind., Indianapolis — STORE — Ma-Co Realty Co., 846 Illinois Bldg., general contract 2 story and basement, 105 x 220 ft., rein.-con., brick and steel, Maple Rd. and College St., to E. C. Strathmann, 712 Meyer Kiser. Archts. est. $200,000.

Ind., Lafayette — HOSPITAL — Home Hospital, general contract rein.-con., brick and steel hospital, to A. E. Kemmer, Lafayette, $225,000. Noted May 26.

Mich., Fordson — APARTMENT — J. Schaefer, 4 story and basement, irregular shaped, 3 units, 130 x 160 ft., rein.-con., brick and steel, plain foundation, Michigan Ave., to Blair Constr. Co., 3212 Book Tower Bldg., Detroit. Archts. est. $1,000,000.

Mich., Jackson—ELKS TEMPLE—Jackson Lodge B.P.O.E., 4 story and basement, rein.-con. and brick, plain foundation, to North-Moeller Co., South Jackson St. Archts. est. $330,000. Noted Sept. 8.

Ill., Chicago—APARTMENT and STORE—E. Levy, 5017 North Ridgeway Ave., masonry contract 3 story, 130 x 149 ft., brick, 5500-10 Emerald Ave., to P. J. Cullinane, 6641 University Ave. Archts. est. $240,000.

Ill., Chicago—APARTMENT and STORE—Rissman & Hirschfield, archts., 228 North La Salle St., masonry contract 3 story, 96 apartment, brick, 2769-89 Milwaukee Ave., to Douglas Constr. Co., 134 North La Salle St., for Milwaukee & Diversey Building Corp., c/o architects. Archts. est. $350,000.

Ill., Chicago—APARTMENT—Washington Pine Building Corp., c/o Leischenko & Esser, archts., 1st Natl. Bank Bldg., masony and carpentry contract 7 story, 72 x 137 ft., brick, 52-64 Pine Ave. N., to Lind Constr. Co., East 92nd St. and Commercial Ave.; terra cotta contract, to Advance Terra Cotta Co., 203 South Dearborn St. Archts. est. $500,000.

Ill., Chicago — OFFICE and STORE—Madison-Clark Building Corp., c/o D. H. Burnham & Co., Inc., archts., 160 North La Salle St., general contract 23 story, attic and basements, 114,128 sq.ft. rental area, granite, steel, brick and terra cotta, on 50 x 128 ft. site, South Clark and West Madison Sts., to FitzGerald Constr. Co., 105 West Monroe St. Noted Dec. 30.

S. D., Aberdeen—HOTEL—A. L. Ward, 1216 North Main St., general contract rebuilding 6 story and basement, 70 x 140 ft., rein.-con., brick, and stone, recently destroyed by fire, to S. W. Jonason & Co, Aberdeen Archts. total est. approximately $300,000. Noted Aug. 11.

Mo., Columbia—HOTEL and THEATRE—Tiger, Inc., W. E. Smith, Columbia, 9 story and basement, 82 x 142 ft., rein.-con., brick and terra cotta, South 8th St., to Simon Constr. Co., Columbia. Archts. est. $500,000. Noted July 28.

Mo., Kansas City — HOTEL — Fisher Building Co., Commerce Bldg., will build 10 story and basement, 80 x 115 ft., rein.-con. and brick, Gillham Rd. and Harrison St., by day labor. $350,000. U. E. Peters, Orear-Leslie Bldg., archt.

Tex., Amarillo — HOSPITAL — St. Anthony's Hospital, general contract 5 story and part basement, 100 x 150 ft., rein.-con., brick and stone, plain foundation, to Christy-Dolph Constr. Co., Rule Bldg., $213,954. Noted Aug. 25.

Tex., Fort Worth—CLUB—Elks Lodge 124, general contract 5 story and basement, 75 x 80 ft., rein.-con., brick and stone, 4th and Burnett Sts., $200,000; and plumbing, to Beach Plumbing & Heating Co., 300 South Main St., $31,500. Noted Aug. 25.

Tex., Houston—BANK—R. S. Sterling, Post-Dispatch Bldg., 5 story, 105 x 115 ft., rein.-con., brick, steel, stone and marble columns, Main and Franklin Sts., to D. Hall, Cotton Exch. Bldg., $700,000. Noted Aug. 4.

Tex., McAllen—HOTEL and STORE—M. R. Nelson will build 11 story, 100 x 150 ft. rein.-con., brick, by day labor. $350,000.

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Buildings—Commercial (Continued)

H. P. Smith, Natl. Bank of Commerce Bldg., San Antonio, archt. Noted June 30.

Tex., San Antonio — GARAGE and SALES—Goad Motor Co., Lexington Ave., 2 story, 165 x 167 ft., rein.-con. and brick, plain foundation, 60,000 sq.ft., floor space, Dallas St. and Lexington Ave., to Heath-Kinsey Const. Co., c/o Builders Exch. Bldg., $104,925. Noted July 28.

Okla., Oklahoma City—OFFICE—Builders Exch. Co., c/o J. B. Landers, Chamber of Commerce Bldg., 10 story and basement, 75 x 140 ft., rein.-con., plain foundation, Grand and Robinson Sts., to Reinhart & Donovan, Tradesmens Bldg., $775,000. Noted June 30.

Okla., Ponca City—STORE and OFFICE—E. W. Marland, 2 story and basement, 150 x 225 ft., rein.-con., brick and stucco, plain foundation, Grand St., to O. D. Black, Ponca City, $225,000. Noted Nov. 11.

Ariz., Phoenix—HOTEL—San Carols Hotel Co., 7 story and basement, 100 x 138 ft., rein.-con., stucco and cast stone, North Central Ave. and West Monroe St., to Kinne & Weserhouse, 220 Black Bldg., Los Angeles, Calif., $300,000. C. Harris, 5th and Olive Sts., Los Angeles, Calif., lessee.

Calif., Culver City—STAGE—Cecil De Mille Studios, 142 x 314 ft. concrete and steel motion picture stage, 67 ft. high, to Union Iron Wks., 5125 Santa Fe Ave. Noted Aug. 25.

Calif., Los Angeles—APARTMENT—C. P. Hubert (owner and engr.), 1210 West 68th St., will build 4 story and basement, 50 x 150 ft., rein.-con., Lake St., by day labor. $150,000.

Calif., Los Angeles—HOTEL—M. G. Kipling, Kipling Hotel, 6 story and basement, 100 x 100 ft., brick and terra cotta addition, 4067 West 3rd St., to Macdonald & Driver, Bd. Trade Bldg., $225,000.

Calif., San Diego—STAGE DEPOT and HOTEL—Pickwick Stage Corp., 102 West Bway., rein.-con. addition, to Edwards, Wildey & Dixon, Edwards-Wildey Bldg., Los Angeles, approximately $250,000. Noted Aug. 11.

Ont., Toronto—APARTMENT—See "Proposed Work."

Ont., Toronto — HOSPITAL — Toronto East General Hospital, A. O. Darling, secy., 2780 Danforth Ave., general contract 3 and 4 story and basement, fireproof, Coxwell Ave., to E. Teagle & Son, 310 Davenport Rd.; carpentry, to A. Clark & Son, 224 August Ave.; structural steel, to Reid & Brown, 73 Esplanade E.; and cut stone, to G. Oakley & Son, 278 Booth Ave. Archts. total est. $250,000. Noted July 28.

Ont., Toronto—HOSPITAL—Hospital for Incurables, Dunn Ave., general contract 4 story and basement, 40 x 50 ft., rein.-con., brick and steel addition, plain foundation, Dunn Ave., to Page & Co., 353 Weston Rd. Archts. est. $150,000.

Buildings—Industrial

Proposed Work

Mass., Boston—BAKERY, GARAGE and REPAIR SHOP—Dorchester Baking Co., c/o M. E. Levy, archt., 7 Water St., having plans prepared 1 story, 65 x 135 ft. brick, plain foundation, Dyer Ave. $40,000.

Mass., Framingham — PLANT — Natl. Radiator Co., C. A. Robertson, mgr., 96 Arlington St., plans brick addition. $40,000. Engineer and architect not selected.

Mass., Everett (br. Boston)—REPAIR SERVICE GARAGE and SHOWROOM—See "Contracts Awarded."

Mass., Fall River—MANUFACTURING—See "Contracts Awarded."

Mass., West Springfield (br. Springfield)—POWER UNIT—Boston & Albany R.R., G. A. Kirley, ch. engr., South Sta., Boston, having plans prepared by Robbins, LeClear & Densmore, 31 St. James Ave., Boston, 1 story, 50 x 115 ft., rein.-con., brick and steel power unit, here. $450,000.

N. Y., Rochester—FACTORY—Owner c/o C. F. Strutz, archt., Cutler Bldg., having sketches made 1 story and basement, brick and steel, plain foundation. $175,000.

N. Y., Rochester — MACHINE SHOP, STORE and WAREHOUSE—L. McCord, archt., Tyler Bldg., soon takes bids 1 story and basement, tile, Culver Rd. and Atlantic Ave., for Rochester Auto Parts, Inc., Culver Rd. $250,000.

Pa., Pittsburgh — PAINT FACTORY—Standard Plate Glass Co., 1st Natl. Bank Bldg., and Hunting, Davis & Dunnells, archts., Century Bldg., taking bids and open same about Sept. 22, 4 story and basement, 32 x 150 ft., rein.-con. and brick, Galveston Ave. $150,000. Noted Aug. 25.

Md., Baltimore — DRY CLEANING PLANT—Fish Dry Cleaning Co., M. Fish, prop., Pennsylvania Ave., having plans prepared by B. Frank, 527 North Charles St., 1 story, irregular shaped, brick and steel, plain foundation, 25th St. and Cecil Ave.

Miss., Kosciusko—MILK CONDENSERY PLANT—Pet Milk Co., Arcade Bldg., St. Louis, Mo., having preliminary plans prepared plant, here. Private plans. $500,000.

Tenn., Kingsport—MACHINE SHOP and FOUNDRY—Kingsport Fdry. & Mfg. Co., W. E. Ring, vice pres. and gen. mgr., plans shop and foundry for manufacturing sugar refinery equipment and blast furnace castings, etc.

Tenn., Oneida—FACTORY—J. H. Wescott Mfg. Co. plans rebuilding spoke and golf stick factory, recently destroyed by fire. $100,000.

O. Mt. Gilead — REPAIR GARAGE—Stauffer Motor Sales Co. having plans prepared by T. W. Newman, 60 North Harrison St., Columbus, 2 story and basement, 47 x 138 ft., brick and concrete, repair garage. $50,000.

Ind Anderson—FACTORY—Ward Stilson Co. having plans prepared by E. F. Miller, Anderson, rebuilding 3 story, 38,000 sq.ft. floor space, fireproof garment factory, recently destroyed by fire. $40,000.

Ind., Bluffton—FACTORY—Grimes Co. having plans prepared brick and steel brass foundry and pattern shop. $43,000. Private plans.

Ind., Hammond—MACHINE SHOP and GARAGE—J. Emmerling having plans prepared by M. Turner, 633 Hohman St., 1 story, 63 x 150 ft. brick and steel, Douglass St. $41,000.

Mich., Detroit — BRASS FACTORY—Higgins Brass Mfg. Co., 12435 Dequindre St., had plans prepared by G. V. Pottle, 1801 David Whitney Bldg., 1 story, 80 x 200 ft., rein.-con., brick and steel, plain foundation, Dequindre St.

Mich., Port Huron — STEEL SHOP—Yaeger Bridge & Culvert Wks., 1801 Kearney St., having plans prepared 2 story, 114 x 202 ft., rein.-con., brick and steel, plain foundation, Kearney St. $75,000. Private plans.

Minn., Minneapolis — BAKERY — Zinsmaster Baking Co., Sherburne St. and Park Ave., St. Paul, having plans prepared by C. W. DeJarnett, 530 43rd St., Des Moines, Ia., 2 and 4 story and basement, rein.-con. and brick, East 29th St. between Park and Oakland Aves. $175,000.

Tex., Corpus Christi—FACTORY—Alamo Iron Wks., 130 Santa Clara St., San Antonio, plans 2 story, 127 x 300 ft., concrete factory. $100,000.

Okla., Bartlesville—ACID PLANT—Natl. Zinc Co., soon takes bids fireproof acid plant. $600,000. Private plans.

Okla., Sand Springs—FACTORY—Southwest Box Co. having preliminary plans prepared new factory. $100,000. C. Tingley, Sand Springs, engr.

Okla., Weleetka — POWER PLANT—Oklahoma Power Co., Okmulgee, had preliminary plans prepared 20,000 kw. steam turbine unit addition. $200,000. Byllesby Eng. Co., 231 South LaSalle St., Chicago, Ill., engrs.

Wash., Port Townsend—PAPER MILL—Zellerbach Paper Corp., 1254 1st St., Seattle, plans paper mill, 150 ton initial capacity, here. $4,000,000.

Calif., Oakland—CREAMERY—East Bay Creamery Co., 896-22nd St., had plans prepared by H. White, Syndicate Bldg., 1 story, concrete, 22nd and Market Sts., $40,000.

Calif., San Francisco — FACTORY—M. W. Fischer, c/o W. Lowe, archt., 354 Hobart St., Oakland, plans 3 story and basement, rein.-con., 10th and Howards Sts., here. $175,000, with equipment $275,000. G. Haas & Son, Phelan Bldg., lessee.

Ont., Almonte—DAIRY—Producers Dairy Ltd., 275 Kent St., Ottawa, having plans prepared by S. Comber, 10 Cathcart St., Montreal, Que., 1 or 2 story and basement, 55 x 85 ft., rein.-con. and brick dairy, here. $50,000.

Ont., Tecumseh — ROUNDHOUSE MACHINE SHOP, etc.—Canadian Natl. Ry., New Union Sta., Toronto, T. T. Irving, ch. engr. (Central Region) having plans prepared brick and steel 30 stall roundhouse, machine shop and yards, incl. switches, grading and ballasting, here. $1,000,000.

Ont., Toronto — FACTORY — Willys-Overland Ltd., Weston Rd., having plans prepared 1 and 2 story and basement, brick and steel addition, concrete foundation. $300,000.

Ont., Toronto—PAPERBOARD MILL—Dominion Boxboards, Ltd., 130 Duchess St., having plans prepared 1 story, concrete, brick and steel, machine room 55 x 400 ft., beater and finish room 100 x 600 ft., concrete foundation, $1,000,000. J. L. Carey, 208 North Laramie Ave., Chicago, Ill., engr.

Bids Desired

Mass., Needham (Ind br. Boston)—REPAIR and SERVICE GARAGE—Owner c/o J. H. Rogers, archt., 10 State St., Boston, taking bids 1 story rein.-con. brick and steel, plain foundation, here. $40,000.

R. I., Pawtucket—MILL—Superior Cabinet Works, Inc., R. L. Norstern, 93 Newell St. taking bids 1 story, 170 x 250 ft., brick, plain foundation, Newell St. To exceed $40,000. E. G. Pullard & Son, 908 Purchase St., New Bedford, archts. Noted March 31.

Md., Baltimore—DAIRY—Sept. 26, by McCormick & Co., archts., 121 South Negley Ave., Pittsburgh, Pa., 3 story, 79 x 185 ft., rein.-con., brick and steel addition, Exeter and Colvin Sts., here, for Fairfield Farm Dairy, Inc., Exeter and Colvin Sts. $150,000.

O., Elyria—FACTORY—Colson Co., c/o R. W. Dailey, engr., taking bids 3 story and basement, 100 x 192 ft., brick and steel factory. $125,000. Private plans.

Ind., Vincennes — FACTORY — W. L. Evans taking bids 2 story and basement, 85 x 140 ft., brick and steel factory. $45,000. Sutton & Routt, Vincennes, archts.

Wis., Milwaukee—MANUFACTURING—Federal Eng. Co., engrs., 440 Milwaukee St., taking bids 3 story and basement, 100 x 140 ft., rein.-con. and brick, wood pile foundation, Reed and Virginia Sts., for Eagle Knitting Co., 186 East Water St.

Iowa—GARAGES—Sept. 27, by State Hy. Comn., Ames, Three 98½ x 28 ft. garages, one at Greenfield, one at Winterset and other at Albia, also 59 x 28 ft. garage at Creston. W. O. Price, Chariton, dist. engr.

Contracts Awarded

Mass., Arlington (br. Boston)—REPAIR and SERVICE GARAGE—J. J. O'Brien, Mass. Ave., 1 story brick, steel and stone, plain foundation, Mass. Ave. to F. B. Locatelli, 46 Cornhill, Boston. Architect's est. $40,000. Noted Sept. 8.

Mass., Cambridge (br. Boston)—FACTORY—Cambridge Rubber Co., 748 Main St., 5 story, 75 x 95 ft., rein.-con. and brick addition, plain foundation, to Scully Co., 238 Main St. Engrs. est. to exceed $40,000.

Mass., Cambridge (br. Boston)—FACTORY—Tailby-Nason & Co., 368 Congress St., Boston, 3 story, brick and timber, Amherst and Carlton Sts., to H. L. Hauser Building Co., 263 Summer St., Boston. Engrs. est. $50,000. Noted July 21.

Mass., Chelsea (br. Boston)—FACTORY—Savanah Food Products Co., 129 Everett Ave., 2 story, rein.-con. brick, plain foundation, Everett Ave. to Waldman Bros., 145 Franklin Ave. Archts. est. $40,000.

Mass., Dorchester (br. Boston)—PLANT—J. Pollak Tool & Stamping Co., 81 Freeport St., 1 story, rein.-con. and brick, boiler room addition, plain foundation, to C. C. Temple Co., 99 Chauncy St., Boston.

Mass., Everett (br. Boston)—REPAIR and SERVICE GARAGE and SHOWROOM—Maltzman & Rovner, 22 Summer St., will build 1 story 85 x 140 ft., rein.-con. and brick, plain foundation, Chelsea and Clinton Sts. $40,000. Work will be done by separate contracts. Eisenberg & Feer, 46 Cornhill, Boston.

Mass., Fall River—MANUFACTURING—V. R. Destremps, 4 Borden Blk., will build 1 story and basement, 50 x 140 ft., timber, plain foundation, McGovan Ave., by day labor. L. G. Destremps, 4 Borden Blk., archt.

Mass., Monson—MILL—A. D. Ellis & Sons, 288 Main St., 3 story, 40 x 100 ft., and 1 story, 50 x 80 ft., brick, steel and timber additions, to Adams & Ruxton Co., 1387 Main St., Springfield. Archts. est $100,000. Noted Sept. 1.

Mass., New Bedford—REPAIR SHOP—Fire Dept., 2 story, brick, plain foundation, Purchase St., to Olsen & Appleby, 62nd St. Noted Aug. 4.

Mass., South Attleboro—MANUFACTURING—Raymond Cooperage Co., Smithfield Ave., Pawtucket, R. I., 1 story and basement, 40 x 125 ft., timber, concrete founda-

Buildings—Industrial (Continued)

tion, Bway. here, to J. Demarais, 115 Bellevue Ave., Pawtucket, R. I. Engrs. est. $40,000.

Conn., Bridgeport — GARAGE — F. L. Mills Co., 2316 Fairfield Ave., 1 story, 100 x 200 ft., brick, steel and timber, plain foundation, service station garage, Dewey St. to W. J. Shaughnessy, Jr., Fairfield Ave. Noted Sept. 1.

Conn., Waterbury — FACTORY—Amer. Fastener Co., 54 Maple St., 5 story, 40 x 100 ft., rein.-con. and brick, plain foundation, Maple St., to J. M. and C. J. Buckley, 128 Vernon St., Worcester, Mass. Archts. est. $75,000. Noted Aug. 25.

Conn., Waterbury — MATTRESS FACTORY—Waterbury Mattress Co., Benedict and West Clay Sts., 3 story, 50 x 115 ft., rein.-con. and brick addition, to L. Sciglian, 214 Oak St. Archts. est. $40,000.

Pa., Phila.—SUB-STATION—J. T. Windrim, archt., Commonwealth Trust Bldg., 2 story and basement, 60 x 80 ft., rein.-con. and brick, plain foundation, Westmoreland and Fox Sts., to Murphy Quigley Co., 1524 Sansom St., for Phila. Electric Co., 10th and Chestnut Sts. Noted Sept. 1.

Pa., Pittsburgh — LAUNDRY—P. & O. Laundry Co., Neville St., general contract 2 story and basement, 61 x 134 ft., rein.-con. and brick, Neville St., to Toupet Building Co., 3412-5th Ave. Archts. total est. $80,000.

Pa., Pittsburgh—FREIGHT STATION—Pittsburgh & West Virginia Ry. Co., Wabash Bldg., general contract altering freight station, 2nd Ave. and Ferry St., to D. T. Riffle, 1006 Forbes St. Archts. est. $40,000.

Pa., West Homestead (mail Homestead) —PLANT—Mesta Machine Co., Homestead, general contract 1 story, 80 x 400 ft., brick and steel addition, here, to Austin Co., Union Trust Bldg., Pittsburgh. Archts. est. $40,000.

O., Cleveland—FACTORY—Ohio Varnish Co., 9001 Kinsman Rd., 1 and 2 story and basement, 55 x 70 ft. brick and steel. 9001 Kinsman Rd., to J. L. Hunting Constr. Co., Guarantee Title Bldg. Archts. est. $40,000. Private plans.

O., Mt. Vernon—PATTERN SHOP—C. and G. Cooper Co., 1 story, 100 x 129 ft., brick, to H. K. Ferguson Co., Hanna Bldg., Cleveland. Archts. est. $40.000.

Ind., Indianapolis — FACTORY — J. D. Adams, 217 South Belmont St., general contract 1 story, 146 x 263 ft., brick and steel factory, to Hall Constr. Co., Bd. Trade Bldg. Archts. est. $42,000.

Mich., Flint—PLANT—Chevrolet Motor Co., 1 story, 200 x 500 ft., rein.-con., brick and steel addition, plain foundation, to H. G. Christman Co., Flint P. Smith Bldg. Archts. est. $150,000. Noted Sept. 1.

Mich., Pontiac—PAINT SHOP — Fisher Body Corp., General Motors Bldg., Detroit, 1 story, 75 x 560 ft., brick and steel, plain foundation, here, to J. A. Utley, 720 Penobscot Bldg., Detroit. Archts. est. $150,000.

Ill., Chicago—FACTORY—C. W. Lempe & Co., archts., 155 North Clark St., masonry contract 4 story, 65 x 117 ft., brick, 5547-51 Ravenswood Ave., to F. Ockerlund & Co., 4909 Lincoln Ave. for Halsey Bros., Co., 645 St. Clair St. Archts. est. $100,000. Noted Mar. 24.

Ia., Ames—DAIRY—State Bd. Educ., c/o W. H. Gemmill, secy., Des Moines, general contract 3 story and basement, rein.-con. and brick, here, to J. and W. A. Elliott Co., 905 Lumber Exch., Minneapolis, Minn., for Iowa State Cillege. $318,632. Noted Aug. 25.

Ia., Sioux City—SERVICE—Sioux City Gas & Electric Co., 2 story and basement, 150 x 220 ft., rein.-con. and brick, to W. A. Klinger, Inc., 508 Warnock Bldg., Sioux City. Archts. est. $300,000.

Minn., Minneapolis—POWER PLANT—Minneapolis Mfg. Co., East Hennepin and 5th Aves. S. E., general contract rein.-con. and brick power plant and concrete stack, etc., 3200 East Hennepin Ave., to Arnold Constr. Co., 510 Guardian Life Bldg., St. Paul. Archts. est. $60,000. Noted Mar. 10.

Minn., Minneapolis—FACTORY—McGill Paper Products Co., 700 6th St. S., general contract 4 story and basement, 158 x 200 ft., rein.-con., brick and Bedford stone addition, 100,000 sq.ft. floor space, 7th Ave. S. and 5th St., to Stahr-Burgum Co., 401 Metropolitan Bank Bldg. Archts. total est. approximately $125,000.

Mo., St. Louis—POWER PLANT—Terminal Railroad Assn., 1800 Market St., 1 story and basement, 46 x 70 ft., rein.-con. and brick, 3251 Scott Ave., to Parker Russel Mining & Mfg. Co., 3314 Morganford Rd.

Tex., Beaumont—POWER PLANT—Gulf State Utilities Co., c/o J. G. Holtzclaw, vice pres., addition to Neches River Power Plant, near here, to Stone & Webster, 49 Federal St., Boston, Mass.; 35,000 kw. turbo generator, to Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.; and two 1,530 hp. boilers, to Babcock & Wilcox Co., 185 Liberty St., New York City. Engrs. est. $1,000,000. Noted Aug. 18.

Tex., Dallas — PLANT — Coca-Cola Bottling Co., 1 story brick addition, 1101 2nd Ave., to R. R. Stapler, Southwest Life Bldg., $50,000.

Ont., Bratford—FACTORY—Verity Plow Wks., Canal Rd., general contracts 4 story, 60 x 200 ft., concrete, brick and steel addition, to Britnell Contg. Co., Yonge and Baxter Sts., Toronto; heating, to Purdy Mansell Co. Ltd., 63 Albert St., Toronto. Archts. total est. $100,000.

Ont., Hamilton—FOUNDRY, CHEMICAL LABORATORY and MELTING—Canadian Westinghouse Co., Ltd., Sanford Ave. N., general contract 2 story and basement, 55 x 262 ft., rein.-con., brick and steel, Aberdeen Ave., to W. H. Yates Constr. Co., 17 Main St. E., and structural steel, to Hamilton Bridge Wks., foot Bay St. Archts. total est. $175,000.

Ont., Toronto—PLANT — Telfer Paper Box Co., 14 Duncan St., general contract 3 story and basement, 70 x 130 ft., rein.-con. addition, to Jackson Lewis Constr. Co., Federal Bldg. Archts. est. $160,000.

Ont., Windsor — FACTORY — United States Playing Card Co., W. W. Morley, mgr., 657 Victoria St., 1 story, 90 x 422 ft., concrete, brick and steel, Mercer St., to S. E. Dinsmore Co., Giles Blk. E. Archts. est. $210,000.

Buildings—Educational, Religious

Proposed Work

Me., Bath — SCHOOL—W. A. Furber, chn., building comr., plans 2 story and basement, brick and stone, grammar school, $150,000. Engineers and architects not selected.

Vt., St. Albans—HIGH SCHOOL—Town, R. E. Royce, chn. Building Com., plans 2 story and basement, brick and steel high school. $200,000.

Mass., Amesbury—HIGH SCHOOL—Bd. Educ. plans addition Main St. $150,000. Engineers and architects not selected.

Mass., Clinton — CHURCH — St. Marys Roman Catholic Church, A. Oszajca, pastor, plans reconstructing church recently destroyed by fire. $150,000 or more. Engineer and architect not selected.

Mass., Medford (br. Boston) — HIGH SCHOOL—City, Schoolhouse Building Com., C. H. Lowell, chn., having plans prepared by C. B. Dunham, 6 Beacon St., Boston, 3 story and basement, 65 x 115 ft., 65 x 190 ft. and 85 x 205 ft., brick, granite and limestone, addition to Senior High School, plain foundation, Forest St. $800,000. Noted Aug. 4.

Mass., Medford (br. Boston—SCHOOLS—City, A. Leary, chn. building com., plans 2 story and basement, brick addition, to Tufts and Hillside Schools. $150,000. Engineer and architect not selected.

Mass., Springfield—SCHOOL—City plans brick and steel addition, to E. Pinney, Inc., Dwight St., $166,150.

Mass., Winthrop—HALL—School Com., having sketches made by W. N. Bacon, 27 Kilby St., Boston, 2 story and basement, brick and stone, plain foundation, Herman and Winthrop Sts. $150,000. Noted Nov. 25.

Conn., Hartford — ASYLUM — Hebrew Orphan Asylum, Inc., S. Cross, 18 Asylum St., having revised plans prepared by Ebbets & Frid, 15 Lewis St., 3 story and basement, 45 x 125 ft., brick and steel, Blue Hills and Towers Aves. $150,000. Noted July 14.

Conn., Hartford—SCHOOL — Southwest School Dist. having plans prepared by Ebbets & Frid, 15 Lewis St., 2 story and basement, brick and steel addition, White St. $150,000.

Conn., Hartford—TRADE SCHOOL—Bd. Educ. having plans prepared by C. J. Maemfeldt & T. M. Prentice, 118 Asylum St., brick and steel, Washington St. $375,000. Noted June 23.

Conn., Meriden—NURSES HOME—Meriden Hospital, E. W. Pierce, chn., Building com., had plans prepared by L. Hamilton, 119 Main St., 3 story, 75 x 115 ft., brick and steel, Cook and Orange Aves. $150,000. Noted Aug. 11.

N. Y., New York—CHURCH and AUDITORIUM—St. Theresa's Roman Catholic Church, Morris Park and Pilgrim Aves., takes bids about Sept. 20, church and auditorium. DePace & Juster, 6 East 46th St., archts.

N. J., Morristown—HIGH SCHOOL—Bd. Educ., 50 Early St., having plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, 3 story and basement, brick and steel addition, plain foundation. $200,000.

Steam heating, ventilating, boilers, stone, brick, terra cotta, metal lath, flooring pipe and waterproofing.

N. J., South Plainfield—SCHOOL—Bd. Educ., Plainfield Ave., having sketches made by G. M. Ricci, 224 Smith St., Perth Amboy, 2 story and basement, brick and steel, plain foundation, Hamilton Blvd. $150,000.

Pa., Erie—HIGH SCHOOL—Bd. Educ., R. S. Scobell, secy., having plans prepared by Meyers & Johnson, Commercial Bldg., 2 story and basement, 265 x 383 ft., brick, steel and concrete, here. $1,000,000. Mayer & Valenting, Plymouth Bldg., Cleveland, O., engr.

Pa., Carlisle—GYMNASIUM—Dickenson College having plans prepared by W. W. Emmart, Union Trust Bldg., Baltimore, Md., 2 story and basement, 86 x 123 ft., and 41 x 115 ft., rein.-con., brick and steel, plain foundation, campus.

Pa., Pittsburgh—CONVENT—Link-Weber & Bowers, archts., Craig St., take bids about Sept. 22, 2 and 3 story and basement, irregular shaped, brick, steel and tile, Ross Twp., for Order St. Frances, Ross Twp. $150,000.

Pa., Pittsburgh—SCHOOL — Bd. Educ., Fulton Bldg., having plans prepared by T. Pringle, Renshaw Bldg., 2 story and basement, irregular shaped, brick and steel addition, Lincoln Ave. $150,000.

Tenn., Nashville—SCHOOLS—Bd. Educ., Hume Fogg Bldg., having plans prepared by C. K. Colley, 4th and 1st Bldg., East Nashville School, by G. D. Waller, Independent Life Bldg., Homes Avenue School, by Asmus & Clark, Nashville Trust Bldg., West Nashville School, by H. S. Hibbs, Amer. Trust Bldg., Tarbox School; and by McKissock & McKissock, Morris Memorial Bldg., Negro High School. $800,000.

O, Jackson—HIGH SCHOOL—Bd. Educ. having plans prepared by G. Scott, Norwalk, brick, concrete and stone high school. $250,000 bond election in November for same.

Ind., Indianapolis — HIGH SCHOOL—Comrs. Technical School, 1500 East Michigan St. takes bids about Sept. 30, 3 story, two wings 60 x 100 ft., rein.-con. and brick high school, $250,000. Vonnegut, Bohn & Mueller, 610 Indiana Trust Bldg., archts.

Mich., Hamtramck (br. Detroit)—COMMUNITY HOUSE—Tau Beta Society, O. Walbert, 3055 Hanley Ave., having plans prepared by Smith, Hinchman & Grylls, 800 Marquette Bldg., Detroit, 4 story and basement, rein.-con. and brick, plain foundation, Hanley Ave. $200,000. Noted Apr. 7.

Mich., Holland — SCHOOL—Bd. Educ. having plans prepared by Robinson & Campau, 715 Michigan Trust Bldg., Grand Rapids, 2 story and basement, 10 room, rein.-con., brick and steel, plain foundation, $175,000.

Ill., Chicago—SCHOOLS—Bd. Educ., 650 South Clark St., J. L. Coath, pres., having plans prepared by J. C. Christensen, 650 South Clark St., 7 new high school buildings, one at 4015 Norht Ashland Ave., one at Fullerton and Linder Aves., one at Foster Ave. and North Robey St., one at Essex Ave. and 82nd St., one at Carmen and Christiana Aves., one at Hulbut St. and Northcott Ave., and other one at Barry and Melvina Aves.; 13 elementary and high school additions, one at 6250 South Wood St., one at 4343 Wrightwood Ave., one at Douglas Blvd. and Lawndale Ave., one at 2216 Hirsch St., one at 4430 Beacon St., one at 4250 South Rockwell Ave., one at 4439 and one at 4901 both St. Lawrence Ave., one at 650 East 91st Pl., one at 13231 Burley Ave., one at 101st St. and Union Ave., one at 936 East 54th St., one at 1355 South Kedvale Ave, and other at 9210 Chappel Ave.; also 3 elementary school buildings, one at Parker and Lakewood Aves., one at Dickens and Melvina Aves., and other at Argyle St. and North Avers Ave. $20,000,000.

Minn., Minneapolis — SCHOOL — Bd. Educ., G. F. Womrath, bus. mgr., 305 City Hall, having plans prepared remodeling and constructing 2 story and basement, rein.-con. and brick addition, 36th Ave. and 51st St. $250,000. Private plans.

Bids Desired

Mass., Fall River—SCHOOL—Sept. 24, School Dept., 3 story and basement, brick and steel, Dwelly, Lewis and Slade Sts., $500,000. J. I. Higgins, 44 Borden Block, archt. Noted July 28.

Mass., Malden (br. Boston)—SCHOOL—Sept. 26, by City, F. G. Marshall, supt., School, Junior High School, 2 story and basement, 165 x 300 ft., brick and stone, plain foundation, $450,000. Desmond &

Buildings—Industrial (Continued)

Lord, 1 Beacon St., Boston, and C. F. Springall, 84 Sprague St., archts. Noted Aug. 18.

Mass., Springfield—CHURCH—Sept. 30, by Allen & Collins, archts., 75 Newbury St., Boston, 1 story and basement, brick and stone, plain foundation, Church and Tower Sts., for Trinity Grace Methodist Episcopal Church, $150,000.

N. Y., Oswego—SCHOOLS—Oct. 6, by Dept. Educ., 2 schools one on Fitzhugh Park site, and other on Kingsford Park site. M. C. Miller, McKinley Bldg., Buffalo, archt. for former, and G. L. VanAuken, 411 East Jefferson St., Syracuse, for latter schools.

N. J., Fort Lee—HIGH SCHOOL—Sept. 27, by Bd. Educ., Municipal Bldg., general contract 2 and 3 story, brick and steel, plain foundation, Lemoine Ave. $675,000. E. Sibley & L. C. Lucht, 1034 Edgewood Lane, Palisade, associated archts. Noted June 16.

N. J., Summit—HIGH SCHOOL—Sept. 26, by Bd. Educ., 272 Morris Ave., general contract 3 story and basement, brick and steel, plain foundation. $200,000. Guilbert & Bettelle, 24 Branford Pl., Newark, archts. Noted Sept. 15.

Pa., Lansdowne—HIGH SCHOOL—Sept. 27, by Bd. Educ., c/o F. S. Underhill, 112 North Broad St., Phila., Junior and Senior High School, 2 story and basement, 79 x390 ft., and 119 x 127 ft., brick and steel, Green and Highland Sts., Heacock & Hokenson, 1211 Chesttnut St., Phila., archts. Noted Sept. 15.

O., Cleveland—ACADEMY—H. A. Walsh, archt., Advance Bldg., taking bids and opens same about Oct. 1, 3 story and basement, 163 x 212 ft., brick, steel and concrete, Rocky River Rd., for St. Joseph Academy, Riverside Dr. $400,000.

Ind., Lafayette—DORMITORY—Purdue University taking bids 3 story and basement, 42 x 270 ft., rein.-con and brick, Franklin Levering Gary Memorial Hall, $200,000. W. Scholer, Painters & Decorators Bldg., archt. Noted July 14.

Ind., South Bend—CHURCH—Methodist Episcopal Church, A. Shannon, pastor, taking bids steel and stone addition, River Park. $150,000. L. H. Sturges, 527 Bd. Trade Bldg., Indianapolis, archt.

Ind., South Bend—CHURCH—Presbyterian Church, 537 Indiana Ave., Indianapolis, taking bids 2 story and basement, 83 x 110 ft., rein.-con., brick and steel, Ewing and Vermon Sts., $150,000. L. H. Sturges, 527 Bd. Trade Bldg., Indianapalis, archt. Noted July 28.

Mich., Almont—HIGH SCHOOL—Sept. 30, by C. A. Sleiman, secy. Bd. Educ., 2 story and basement, 86 x 154 ft., rein.-con., brick and steel, plain foundation. $150,000. Warren Holmes-Powers Co., Tussing Bldg., Lansing, archts.

Mo., Webster Groves—DORMITORY—Sept. 27, by H. P. Hess, archt., 101 Ambassador Bldg., St. Louis, 5 story, 34 x 162 ft. and 36 x 128 ft., rein.-con., brick and stone, Lockwood and Plymouth Aves., for Webster Groves College, Lockwood and Plymouth Aves. Approximately $350,000. Noted Sept. 8.

Tex., San Antonio—GYMNASIUM—See "Contracts Awarded."

Calif., San Francisco—SCHOOL—Sept. 28, by Bd. Pub. Wks., fireproof annex, Folsom St., for City and San Francisco Co. $155,000. J. Reid, Jr., city, archt. Noted Jan. 27.

Calif., San Francisco—SCHOOL—L. J. Devlin, archt., Pacific Bldg., taking bids 2 story and basement, rein.-con., 23rd Ave. and Geary St., for Roman Catholic Archbishop, 1100 Franklin St. $150,000. Noted July 21.

Ont., Toronto—CHURCH—J. G. Morton, archt., 61 Dixon Ave., taking bids 1 and 2 story and basement, rein.-con., brick and steel, plain foundation, Hewett and Roncesvalles Aves., for High Park Baptist Church, 16 Radford Ave. $150,000. Noted Feb. 17.

Contracts Awarded

Mass., Boston—COLLEGE—Burdett Business College, 18 Boylston St., 5 story and basement, 115 x 150 ft., brick, plain foundation, Stuart, Warrenton and Carver Sts. to Olympia Constr. Co., 333 Washington St. Noted Aug. 11.

Mass., Everett (Boston P.O.)—SCHOOL—Our Lady of Grace Parish, T. J. Walsh, pastor, 3 story and basement, 60 x 125 ft., brick, steel and limestone, plain foundation, Nichol St., to A. B. Carter & Sons, 84 Tremont St., Boston. Archts. est. $200,000.

R. I., Providence—NURSES HOME—Homeopathic Hospital Corp., D. P. Moulton, secy., 2 story and basement, brick and stone plain foundation, Chalkstone Ave., to J. W. Bishop, Co., 93 Eddy St., Archts. est. $150,000. Noted Aug. 25.

N. Y., College Point (Ind. Sta. Flushing)—SCHOOL—Bd. Educ., 500 Park Ave., New York City, general contract P.S. 29, 3rd Ave., here, to L. J. Rice, 40 Vista Pl., Port Richmond, $323,570; plumbing, to J. A. Graf, 394 Waverly Ave. Brooklyn, $21,631; and heating, to D. J. Rice, 405 Lexington Ave., New York City, $51,187. Grand total $396,388. Noted Sept. 18.

N. Y., New York—SCHOOL—Bd. Educ., 500 Park Ave., New York City, general contract P.S. 14, Eastern Blvd., and Baisley Ave., to Guidera & LaSalla, 391 East 149th St., $409,400; plumbing, to N. P. Lorenzo, 430 Pearl St., $25,154; and heating, to Heat Control Serv. Co., 759 Park Pl., $60,263. Grand total $494,817. Noted Aug. 25.

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt., buildings, 19th and Chestnut Sts., general contract 3 story and basement, 73 x 167 ft., rein.-con. and brick, plain foundation, Ogden and 12th Sts., to W. Langhorne, 10 South 18th St. $322,000; and heating, to F. Wackenhut, 2416 Frankford Ave., $30,335. Noted Sept. 1.

Ala., Birmingham—COLLEGE—Miller & Martin, archts., Title Bldg., general contract 4 story, 50 x 125 ft., brick and steel, on campus to J. F. Holley Constr. Co., 817 North 19th St., for Birmingham-Southern College. $183,742.

Miss., Jackson—CHURCH—Calvary Baptist Congregation, H. M. King, pastor, Lemon and Capitol Sts., 3 story, rein.-con., brick and steel, etc. Capitol St., to I. C. Carber, Jackson. Archts. est. $200,000.

O., St. Bernard—HIGH SCHOOL—Sisters of St. Frances, 3 story and basement, brick and rein.-con., plain foundation, Bertus St., to J. & F. Harig Co., 1240 Queen City, Cincinnati, $300,000.

Ind., Indianapolis—FIELD HOUSE—Butler College, Fairview Campus, J. W. Atherton, secy., Fletchers Trust Bldg., steel contract 208 x 340 ft., rein.-con., brick and steel field house, incl. swimming pool, locker rooms and gymnasium to Central States Bridge Co., 601 Beecher St., excavation and foundations, to Marion Co. Constr. Co., 5 West St. Archts. est. $500,000.

Ind., Knightstown—SCHOOL—Soldiers & Sailors Orphans Home, L. A. Cortner, supt., general contract 2 story and basement, rein.-con., brick and steel school to H. Vahle Constr. Co., New Palestine, archts. est. $150,000; girls dormitory, to Krebay Constr. Co., 605 City Trust Bldg., Indianapolis, $60,000.

Mich., Fordson—SCHOOL—Bd. Educ., 3 story, rein.-con., brick and steel, plain foundation, Woodworth Site, to F. R. Patterson Constr. Co., 624 McKerchey Bldg., Detroit, $351,000.

Mich., Kalamazoo—CHURCH—First Methodist Episcopal Church, general contract 2 story and basement, rein.-con. and brick, incl. Sunday school, plain foundation, Park St., to H. L. Vanderhorst, West Main St. Archts. est. $400,000. Noted Dec. 9.

Tex., Amarillo—CHURCH—Polk St. Methodist Congregation, L. N. Stuckey, pastor, 4 story, 125 x 200 ft., rein.-con., brick, stone and terra cotta, 14th and Polk Sts., to Christy-Dolph, Constr. Co., 815 Rule Bldg., $400,000.

Tex., Brownsville—COLLEGE—Bd. Educ., junior college 2 story, rein.-con. and brick, plain foundation, to Walsh & Burney, 928 North Flores St., San Antonio, $220,300. Noted Aug. 18.

Tex., San Antonio—GYMNASIUM—St. Mary's University, West Side, will build 1 and 2 story, 100 x 130 ft., concrete, hollow tile, and brick, by cost plus or day labor basis. $150,000. L. M. J. Dielmann, 306 East Commerce St., archt. Noted Feb. 24.

Okla., Claremore—ACADEMY—Bd. Affairs, Capital, Oklahoma City, 2 story, 130 x 154 ft., rein.-con. and brick, plain foundation, on campus, for Oklahoma Military Academy, here, to Acme Constr. Co., Tulsa, $124,254. Noted Sept. 8.

Calif., Los Angeles—DORMITORY and CHAPEL—J. C. Austin & F. M. Ashley, archts., Chamber of Commerce Bldg., general contract 5 story, 46 x 146 ft., rein.-con., 2115 Ocean View Ave., to Macdonald & Driver, Bd. Trade Bldg., for St. Vincents Hospital, 1151 Sunset Blvd. $140,000. Noted July 7.

Federal Government Work

Proposed Work

Ill., Great Lakes (mail Waukegon)—Electric Distributing System—Spec. 548[illegible]—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans electric distribution system, at Naval Training Station, here.

Bids Desired

Mass., Bedford—Pump—Oct. 11, by U. S. Veterans Bureau, Arlington Bldg., installing complete deep well pump and additional pumping unit at U. S. Veterans Hospital, here.

La., Monroe—Plumbing and Lighting—Sept. 20, by Treas. Dept., at office Supervising Archt., Wash., D. C., plumbing and lighting at U. S. Post Office, here.

Ky., Louisville—Dike—See "Contracts Awarded."

O., Akron—Post Office—Oct. 19, by Treas. Dept., at office Supervising Archt., Wash., D. C., constructing U. S. Post Office, here; adv. E. N.-R. Sept. 22.

Ind., New Castle—Sewer—Sept 27, by Treas. Dept., at office Supervising Archt., Wash., D. C., constructing new sewer here.

N. D. Jamestown—Post Office—Sept. 29, by Treas. Dept., at office Supervising Archt., Wash., D. C., supplemental bids for construction of post office, here.

Utah, Salt Lake City—Earthwork, etc.—Oct. 25, by Bureau Reclamation, earthwork and structures on Weber River Division, Salt Lake Basin Project, adv. E.N.-R. Sept. 22.

Ore., Nyssa—Cottages—Sept. 26, by Bureau Reclamation, 8 cottages and one frame office building at Owyhee Dam, here.

Calif., San Francisco—Wharf—Oct. 4, by Supt. Lighthouses, constructing wharf at Goat Island Lighthouse Depot, here.

T. H., Pearl Harbor—Barracks, etc.—Spec. 5407—Nov. 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., barracks, subsistence building, laundry and boiler house at Naval Operating Base, (Submarine Base), here. Noted Sept. 8.

T. H., Pearl Harbor—Generating Plant Equipment—Spec. 5481—Nov. 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., steam generating plant equipment and piping Naval Operating Base (Submarine Base), here. Noted Sept. 1.

Bids Received

Mass., Marlboro—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here, from J. Miles & Son Co., Worcester, $5,337. Noted Aug. 25.

D. C., Anacosita (mail Wash.)—Boiler House stack—Constructing Quartermaster, Sept. 14, boiler house stack and heating system, at Bolling Field, here, from B. H. B. Ennis, Jr., Harford Rd. and Gibbons Ave., Baltimore, Md., $28,551.

Ala., Montgomery—Barracks—Quartermaster General, Wash., D. C., Sept. 12 constructing air corps barracks, at Maxwell Field, here from P. O. Woodcock, Myrtle St., Jacksonville, Fla., $98,475. Noted Aug. 18.

Tenn., Memphis—Shops—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Sept. 13, shop buildings at U. S. Veterans hospital, here, from Batson-Cook Co., West Point, Ga., $51,100; refrigerating plant from York Mfg. Co., York, Pa., $7,125. Noted Aug. 18.

Tenn., Nashville—Gates—U. S. Engineer Office, Sept. 6, from Nashville Bridge Co., foot Shelby Ave., gate for Lock A in Cumberland River, $14,970, gate for Lock B $14,790, gate for Locks A and B (combined) $21,970, and for Locks B and A (combined) $13,940. Noted Aug. 4.

Minn., Fort Snelling—Fence and Gates—U. S. Veterans Bureau, Arlington Bldg., Sept. 13, fence and gates at U. S. Veterans Hospital, here, from C. W. Olsen Mfg. Co., 1300 N. E. Quincy St., Minneapolis, $7,271.

Missouri—Dikes—U. S. Engineer Office, 428 Customhouse, St. Louis, Sept. 8, 6,000 lin.ft. piling dikes or hurdles on Mississippi River, at Missouri Sister Island, here, from Woods Bros. Constr. Co., 132 South 13th St., Lincoln, Neb., $267,000. Noted Sept. 1.

Contracts Awarded

N. J., Oceanport—Hospital—Constructing Quartermaster Fort Monmouth, constructing post hospital, here, to Hughes-Foulkrod

Federal Government Work (Continued)

Co., 809 Schaff Bldg., Phila., Pa., $83,950 (180 days). Noted Sept. 18.

Ky., Louisville—Dike—U. S. Engineer Office, will build dike across Sand Island, by own forces. To exceed $100,000. H. Pockras, ch. engr. in charge. Noted Aug. 25.

California—Road—C. H. Sweester, dist. engr. Bureau Pub. Rds., 461 Market St., San Francisco, grading and crushed rock or gravel surfacing 13.23 mi. Truckee-Meyers Section Route 30, Natl. Forest Highway, Nevada and Placer Counties, to Hemstreet & Bell, Maryville, $100,550. Noted Sept. 8.

T. H., Oahuth—Hospital, etc.—W. M. Scott, construct. div., Fort Shafter, hospital additions at Schofield Barracks, here, to R. R. Ames, Honolulu, $229,000. Noted Aug. 4.

FEDERAL POWER COMMISSION

Application for License and Permits

Applications

827—California Oregon Power Co., 454 California St., San Francisco, Calif., wants license transmission line on public lands in Klamath Co., Ore.

828—California Oregon Power Co., 454 California St., San Francisco, Calif., wants license transmission line on public lands in Jackson Co., Ore.

829—F. F. Faucett, Polson, Mont., wants preliminary permit diversion dam, pipe line, power house and transmission line in Deschutes Natl. Forest, Paulina Creek, Deschutes Co., Ore.

830—Southern Sierras Power Co., Riverside, Calif., wants license transmission line partly on public land in San Bernardino and Kern Counties.

831—Superior Packing Co., 805 Arctic Bldg., Seattle, Wash., wants license constructing project within Tongass Natl. Forest, on unnamed Creek, north shore of Tenakee Inlet, Chichagof Island, Alaska.

832—Bunker Hill and Sullivan Mining & Concentration Co., Kellcg, Shoshone Co., Idaho, wants license power project in Payette Natl. Forest, on Deadwood River, in Valley Co.

833—J. R. Maurstad, Killisnoo, Alaska, wants license power project in Tongass Natl. Forest on Baranof Island, 1st Judicial Dist., Southeastern Alaska on Hidden Falls Lake.

834—B. G. Slining, Chicago, Ill., wants preliminary permit power project on Big South Fork of Cumberland River, in McCreary Co., Ky., and Scott Co., Tenn.

835—Twon Harbor Land Co., Aberdeen, Wash., wants preliminary permit power project on North River in Grays Harbor and Pacific Counties, Wash.

836—Seafoam Mines Corp., Seafoam, Idaho, wants preliminary permit power project within Challis Natl. Forest, on Float Creek, Custer Co.
Station A, here.

Unclassified

Proposed Work

Airport—Brockton, Mass—Owner c/o G. Varney, 1245 South Main St., plans airport, incl. 2 runways, hangars and electric light system on approximately 75 acres, Haywood Ave. $50,000. Haywood & Haywood, 28 Main St., engrs. Noted Aug. 25.

Beach Improvement, etc. — Dorchester (br. Boston), **Mass.**—City of Boston, Park Dept., plans improving Tenean Beach, here, $50,000; and constructing golf course probably here, $300,000.

Airport—Gardner, Mass. — Chamber of Commerce plans airport, at John Broch Farm Field. $25,000-$30,000. Engineer and architect not selected.

Arena — Lynn, Mass. — General Electric Co., 920 Western Ave., plans arena. $40,000. Private plans.

Airplane Hangar — Westfield, Mass. — Westfield Chamber of Commerce, c/o Aviation Com., plans steel airplane hangar to house 6 or 10 planes. $150,000.

Concrete Sheaths — Pittsburgh, Pa. — Dept. Pub. Wks. plans concrete sheaths and appurtenances in Aspinwall Rising Main, Canal St., Sharpsburg; and Guyasuta Run Crossing. $30,000. Bureau Engineering, City County Bldg., engrs.

Subway — Birmingham, Ala. — See "Bridges."

Traffic Signals, Lighting System, etc.—Cincinnati, O.—Rapid Transit Comrs., City Hall, plans traffic signals and lamps, incl. 41 standards, etc., $28,720, and ornamental lighting system, $76,934, both on Central Parkway. F. L. Raschig, City Hall, engr.

Ornamental Lights — St. Paul, Minn.—Making plans replacing ornamental lights in 6th St. between St. Peter St. and Bway. $28,000. J. W. Kelsey, city engr.

Street Lighting System—St. Louis, Mo.—Bd. Pub. Serv., 208 City Hall, takes bids in November, street lighting system in district bounded by Jefferson Ave. and Mississippi River between Cass Ave. and Mill Creek Valley, incl., 1,450 rein.-con., cast steel or c.i. standards, 400 with two 1,250 cp. lamps and 1,050 with one 1,500 cp. lamp, also 2,500 rein.-con. standards with 150 to 250 cp. single lamps, cable, sub-stations, etc. $1,000,000. J. Pritchard, City Hall, dir.

Natural Gas System—Texas—Prairie Gas Co., Amarillo, plans piping natural gas from Floyada to Amarillo, $200,000; also natural gas system in Floyada. $75,000. Private plans.

Oil Pipe Line—Texas—Humble Pipe Line Co., Corpus Christi, making preliminary plans approximately 450 mi. 8 in. oil pipe line from McCaney to Corpus Christi, $10,000,000. Private plans.

Swimming Pool—Houston, Tex.—City plans swimming pool in Herman Park. $75,000. S. J. and S. H. Hare, Huntzinger Bldg., Kansas City, Mo., engrs.

Pumping Plant—Plemons, Tex.—Phillips Petroleum Co., Bartlettsville, Okla., made plans pumping plant on Big Creek, a tributary of Canadian River, diverting 471 acre ft. water, in Hutchinson Co., near here. $75,000. Private plans.

Groynes — Long Beach, Calif.—Making plans restoring groynes each 300 ft. long and approximately 450 ft. apart. $95,000. A. H. Adams, 2277 Pine St., acting city engr.

Bids Desired

Cross-compound Engine, etc—Arlington (br. Boston) **Mass.**—Oct. 6, by Metropolitan Dist. Comn., 1 Ashburton Place, Boston, constructing and erecting cross-compound engine, crank and fly-wheel condensing pumping engine, 3 m.g.p.d. capacity for Arlington pumping station.

Heating Plant—North Attleboro, Mass.—Elm Amusement Co., J. Levenson, 27 School St., Boston, taking bids remodeling heating plant, etc. in Elm Theatre, North Washington St. $30,000. Funk & Wilcox, 25 Pemberton Sq., Boston, archts.

Borings—Brooklyn, N. Y.—Sept. 30, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, borings along Route 107, Livingston St., Lafayette, Marcy and Union Aves. and McCarron Park; Route 109, Smith and 9th Sts., Prospect Park, Prospect Ave., Fort Hamilton Parkway, and Gravesend Ave.; and Route 110, Fulton St., here.

Borings—New York, N. Y.—Sept. 28, by A. Goldman, comr. Plant & Structures. Municipal Bldg., land borings on site of Bronx Approach Triborough Bridge. Noted June 23 under "Bridges."

Steel Rails—Phila., Pa.—Sept. 29, by C. D. Young, genl. purch agt., for Pennsylvania R.R. Co., Broad Street Sta., 300,000 tons steel rails, Contr. 4309.

Heating, etc.—Chicago, Ill.—Sept. 29, by Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., steam heating in 3 school buildings, one at Leavitt and Lincoln Sts., one at 77th and Lincoln Sts., and other at 58th and Homan Sts.; also steam heating, ventilation, electrical work, etc. in school buildings at 81st and La Salle Sts. and at Major and Roscoe Sts. J. C. Christensen, 650 South Clark St., archt.

Aquarium—Chicago, Ill.—See "Buildings—Commercial."

Transmission Line — Texas — See "Contracts Awarded."

Truck Shed, etc.—Sheridan, Wyo.—See "Streets and Roads." under "Wyoming."

Contracts Awarded

Street Signs—Boston, Mass.—Dept. Pub. Wks., will construct 25,000 steel plate intersection street signs on wrought iron posts 8 ft. high, on various streets by day labor. $100,000. J. H. Sullivan, c/o owner, comr.

Transit Extension—Boston, Mass.—Transit Dept., 1 Beacon St., Sect. 2, Rapid Transit System Extension Dorchester, to A. G. Tomasello & Son, Inc., 250 Stuart St., $255,910 and Sect. 3 to C. & R. Constr. Co., 75 Brandeen St., Roslindale, $626,550. Noted Aug. 4.

Subway — Dorchester (br. Boston)—Transit Dept. 1 Beacon St., Boston, Sect. 4, Dorchester Rapid Transit System, to C. & R. Constr. Co., 75 Brandeen St., Roslindale, $401,565. Noted Aug. 11.

Electrical Equipment — Dorchester (br. Boston), **Mass.**—City, Transit Dept., 8 Beacon St., electrical equipment for Ashmont subway station, here, to General Electric Co., 84 State St., Boston, $74,400.

Conduits — New Britain, Conn.,—Bd. Pub. Wks., conduits in Court, South High and Main Sts. to P. Suzio & Staff, 24 Wallace St., $22,443. This corrects report published in Aug. 25 issue.

Field Gymnasium—New Haven, Conn.—Yale University Athletic Assn., stone, brick and steel field gymnasium, plain foundation, Maltby Ave., to National Constr. Co., 151 Court St.

Track Installation, etc.—New York—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, installing tracks etc. Route 8, Sect. 6-A1, 6-A2, 14th St. Eastern line, Rapid Transit R.R., Brooklyn and Queens Boros, to McElroy & Kerwin, 187 Joralemon St., Brooklyn, $139,952. Noted Sept. 1.

Townsites—Texas—Delta Cities Co., c/o W. A. Harding, pres., Raymondsville, developing 21,300 acres, incl. grading streets, irrigating, etc. for townsites of Santa Margarita, Santa Monica, Lasara Hill and Rolle, Willacy Co., to Raybourn Constr. Co., c/o owners.

Transmission Line — Texas — Central Power & Light Co., Frost Bldg., San Antonio, will build 32 mi. transmission line from Cuero to Victoria, by day labor, $70,000. Private plans.

Street Lighting System—Portland, Ore.—Ornamental lighting system on 16 blocks 4th St. between Burnside and 15th Sts., to Northwest Electric Co., Pittock Bldg., $30,952; and 4th St. between Burnside and Jefferson Sts., to Jagger & Sroufe Co., 103 Park Ave. $41,768.

Culvert—Washington—See "Streets and Roads."

Lighting System—Los Angeles, Calif.—Ornamental lighting system on Coolidge Ave., Berryman and Minerva St., etc., to A. C. Rice, 1957 Santee St., $26,240.

Grand Stand, etc.—Toronto, Ont.—Ontario Jockey Club, 6 Leader Lane, general contract concrete, brick and steel grand stand addition, rebuilding members stand, also altering stewards and jockey quarters, to A. R. Holmes, Ltd., 6 Hayden St. Archts. est. $250,000.

Fir Stave Flume, Calgary, Alta.—Canadian Pacific Ry., fir stave flume, 2,600 ft. long, 15 ft. diam. carrying capacity 1000 second ft. on creosoted pile sub-structure, manufacture and constructing superstructure, to Pacific Coast Pipe Co., Ltd., Vancouver, B. C.; 33,000 lin.ft. creosoted coast fir piling and approximately 82,000 f.b.m. cresoted timber, to Alberta Wood Preserving Co., Ltd., driving, capping, and bracing approximately 16,000 lin.ft. creosoted piling 110,000 f.b.m., to Duff, Flint & Co., Regina, Sask. Total est. $85,000.

Materials

Proposed Work

Crushed Limestone—Stillwater, Okla.—City in market 2,700 tons 2 in. crushed limestone, for Street Dept.

Bids Desired

Pipe—New York, N. Y.—Sept. 28, by P. J. Dooling, comr. Purchase, Municipal Bldg., pipe, pipe fittings, valves, etc. to Police Dept. and Dept. Plants & Structures, Water Supply, Gas & Electricity, etc.

Plates, Bars, Boiler Tubes, Pipe, etc.—Phila., Pa.—Sept. 30, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., plates, bars, shapes, Contr. 108; axles Contr. 109; sheets, Contr. 110; boiler tubes and pipe, Contr. 111.

Bids Received

Water Pipe—Houston, Tex.—City, Aug. 24, 6- to 12-in. class "B" c.i. water pipe, from U. S. Cast Iron Pipe & Fdry Co., Magnolia Bldg., Dallas, $15,864. Engrs. est. $16,000.

Contracts Awarded

Steel — Boston, Mass. — City, Transit Dept., 1 Beacon St., 400 tons structural steel, to Bethlehem Steel Co., 100 Milk St., Boston, $20,948. Noted July 21.

See proposal advertising on page 123

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Bridge—Los Angeles, Calif.

Bids were opened by Board of Public Works, Aug. 22, for constructing First Street Viaduct over Los Angeles River, concrete arch, 2062-ft. long, including approaches, 71-ft. wide with 56-ft. roadway and two 5-ft. sidewalks, from (A) North Pacific Constr. Co., Detwiler Bldg.; (B) Lynch-Cannon Engr. Co.; (C) C. U. Heuser, Glendale; (D) R. Metcalfe; (E) Thomas Kelley & Sons; (F) MacDonald & Kahn; all contractors of Los Angeles, except (C). The unit bids are as follows:

	A	B	C	D	E	F
Arch centers, complete (lump sum)	$12,000.00	$11,000.00	$12,000.00	$10,000.00	$10,150.00	$20,000.00
2,000,000 lb. reinf. steel (lump sum)	81,000.00	82,250.00	90,000.00	113,257.00	92,089.00	87,500.00
12,705 cu.yd. class "A" conc	19.60	22.60	18.00	21.30	17.00	21.00
7,710 cu.yd. class "C" concrete	19.70	16.00	16.00	20.15	21.00	21.00
3 cu.yd. class "D" concrete	19.70	16.00	30.00	15.00	12.00	17.00
3,400 lin.ft. concrete piling	6,840.00	9,100.00	9,000.00	10,000.00	9,633.00	11,000.00
Concrete piles, unit price per ft	2.50	2.50	2.50	2.50	2.50	1.90
Excavating, grading, filling (lump sum)	8,800.00	8,500.00	15,000.00	15,000.00	30,015.00	15,500.00
3,330 lin.ft. cement curb	.60	.75	.90	1.00	.70	.75
3,340 sq.ft. concrete gutter	.25	.30	.30	.35	.30	.30
18,950 sq.ft. cement sidewalk	.20	.15	.15	.25	.20	.22
Sanitary sewer and storm drains, remodeling (lump sum)	4,380.00	3,800.00	10,000.00	8,000.00	6,154.00	7,000.00
Bituminous pavement (lump sum)	27,620.00	33,000.00	45,000.00	37,000.00	56,271.00	35,000.00
Curbs sur. column and Bent No. 3 bases (lump sum)	800.00	900.00	1,000.00	150.00	1,017.00	250.00
Ornamental handrail and pylons (lump sum)	29,950.00	33,200.00	39,000.00	22,238.00	60,425.00	42,500.00
Ornamental lighting system (lump sum)	23,000.00	20,000.00	32,000.00	22,200.00	31,155.00	30,000.00
Removing existing bridge (lump sum)	6,500.00	12,000.00	23,000.00	15,000.00	10,378.00	20,000.00
Totals	$613,477.00	$630,633.00	$634,981.00	$689,099.00	$692,343.00	$705,184.00

Engineering News-Record, Issue of Sept. 22, 1927.

Sewer—New Jersey

Bids were opened by City of Newark, July 7, for constructing Section V of supplementary joint trunk sewer in Cities of Newark, East Orange and Summit, Townships of Hillside, Maplewood, Millburn and Union, Towns of Irvington and West Orange, Borough of Roselle Park, and Village of South Orange, from (A) Spiniello Constr. Co., 493 Monroe St., Orange (awarded contract); (B) Pizzimenti Bros., Ridgewood; (C) J. Miele Constr. Co., 2261 Helburn Ave., Maplewood; (D) Martin & Miller; (E) Paulsen Constr. Corp., 21 E. 40th St., New York; (F) L. R. Gilbert, 212 Union Bldg., Plainfield; (G) A. A. Johnson Corp.; (H) J. W. Heller Co., Maplewood. Reinforced concrete pipe will be used on all sizes from and including 24-in. and upwards, and vitrified pipe will be used for balance of work. The unit bids are as follows:

			A	B	C	D	E	F	G	H
1 A-1	1,800 cu.yd. class "A" rock excav. depth 0-10 ft		$3.00	$8.00	$5.00	$5.00	$7.00	$5.00	$5.00	$7.00
1 A-2	4,200 cu.yd. class "A" rock excav. depth more than 10 ft		5.00	10.00	5.50	6.00	7.50	5.50	6.80	10.00
1 B-1	1,500 cu.yd. class "B" excav. depth 0-10 ft		2.00	5.00	4.25	3.00	6.00	5.00	3.55	5.00
1 B-2	3,500 cu.yd. class "B" excav. depth more than 10 ft		2.25	5.00	5.00	3.25	6.50	6.00	4.95	8.00
1 C-1	4,100 cu.yd. class "C" quicksand depth 0-10 ft		4.00	4.00	4.50	5.00	6.00	4.50	8.65	6.00
1 C-2	9,000 cu.yd. class "C" quicksand depth more than 10 ft		4.00	5.00	5.50	6.00	6.50	5.00	11.55	7.00
1 D-1	35,000 cu.yd. class "D" earth eacav. depth 0-10 ft		1.75	1.50	2.00	1.50	4.00	1.85	2.73	3.50
1 D-2	1,900 cu.yd. class "D" earth excav. depth more than 10 ft		4.00	4.00	2.50	2.00	6.00	3.00	3.70	5.00
3	29,000 lin. ft. 6 in. undrains.		.10	.50	.20	.50	.25	.10	.58	.60
4	450 M. ft. B.M. timber, untreated		55.00	50.00	70.00	50.00	20.00	30.00	40.00	100.00
4 A	2 M.ft. B.M. timbers, creosoted		250.00	200.00	150.00	200.00	130.00	100.00	248.00	200.00
6	6,000 sq.yd. temporary pavements		1.00	1.00	.75	2.50	.75	.50	1.30	2.00
6 A	3,000 sq.yd. sidewalks		.28	2.50	3.00	3.00	3.20	1.50	2.80	2.50
8 A	100 cu.yd. class "A" concrete		30.00	20.00	20.00	40.00	12.00	22.00	19.85	25.00
8 B	1,000 cu.yd. class "B" concrete		20.00	16.00	17.00	30.00	10.00	17.00	18.50	20.00
8 C	100 cu.yd. class "C" concrete		16.00	14.00	16.00	25.00	9.00	15.00	17.35	18.00
8 D	1,000 cu.yd. class "D" concrete		10.00	12.00	15.00	15.00	7.50	10.00	13.65	15.00
9	15,000 lb. reinforcement		.08	.08	.07	.10	.05	.05	.06	.10
11 A	1,020 ft. 42 in. rein.-con. sewer	0- 8 ft. deep	6.05	6.00	6.25	5.25	6.00	10.00	6.26	6.00
	500 ft.	8-12	6.10	6.20	6.25	5.75	6.00	11.00	6.39	6.50
	300 ft.	12-16	6.15	6.40	6.50	6.50	6.00	12.00	6.51	7.00
	400 ft.	16-20	6.25	6.75	6.50	7.50	6.00	14.00	6.57	7.50
	360 ft.	20-24	6.35	7.00	6.75	8.50	6.00	18.00	6.76	8.00
11 B	2,880 ft. 33 in.	0- 8	4.55	4.00	4.50	4.25	4.50	8.00	4.40	4.00
	1,120 ft.	8-12	4.60	4.20	4.50	5.00	4.50	9.00	4.53	4.50
	760 ft.	12-16	4.65	4.40	4.50	6.00	4.50	10.00	4.65	5.00
11 C	1,230 ft. 30 in.	10- 8	3.90	3.50	3.50	3.50	3.90	7.00	3.78	3.50
	930 ft.	8-12	3.95	3.70	3.50	4.25	3.[illegible]0	8.00	3.91	4.00
	320 ft.	12-16	4.00	3.90	3.50	5.25	3.90	9.00	4.03	4.50
11 D	100 ft. 27 in.	0- 8	3.50	3.00	3.00	3.00	3.50	6.00	3.29	2.80
	3,125 ft.	8-12	3.55	3.20	3.00	3.50	3.50	7.00	3.41	3.20
	1,860 ft.	12-16	3.60	3.40	3.00	4.25	3.50	8.00	3.53	3.60
12 A	4,330 ft. rein.-con. pressure pipe 42 in.		11.00	8.00	9.50	8.50	8.00	11.00	10.66	11.00
13 A	100 ft. 24 in. vitr. tile sewer	0- 8 ft. deep	4.00	3.50	3.90	3.00	3.20	5.50	4.22	3.50
11 E	100 24 in. rein. con. sewer	0- 8	3.20	2.50	2.60	2.75	3.20	5.00	2.73	2.50
13 A	2,700 ft. 24 in. v. t.	8-12	4.00	3.70	3.90	3.25	3.20	6.00	4.34	3.75
11 E	2,700 ft. 24 in. r. c.	8-12	3.25	2.70	2.70	3.00	3.20	5.50	2.85	2.75
13 A	200 ft. 24 in. v. t.	12-16	4.05	3.90	3.90	3.75	3.20	6.00	4.46	4.00
11 E	200 ft. 24 in. r. c.	12-16	3.30	2.90	2.75	3.50	3.20	5.50	2.98	3.00
13 B	100 ft. 22 in. v. t.	0- 8	3.60	3.50	3.40	2.75	2.90	5.00	3.51	3.20
11 E*	100 ft. 24 in. r. c.	0- 8	3.20	2.50	2.60	2.50	2.90	4.50	2.73	2.50
13 B	910 ft. 22 in. v. t.	8-12	3.60	3.70	3.40	3.00	2.90	5.50	3.63	3.45
11 E*	910 ft. 24 in. r. c.	8-12	3.25	2.70	2.60	2.75	2.90	5.00	2.85	2.75

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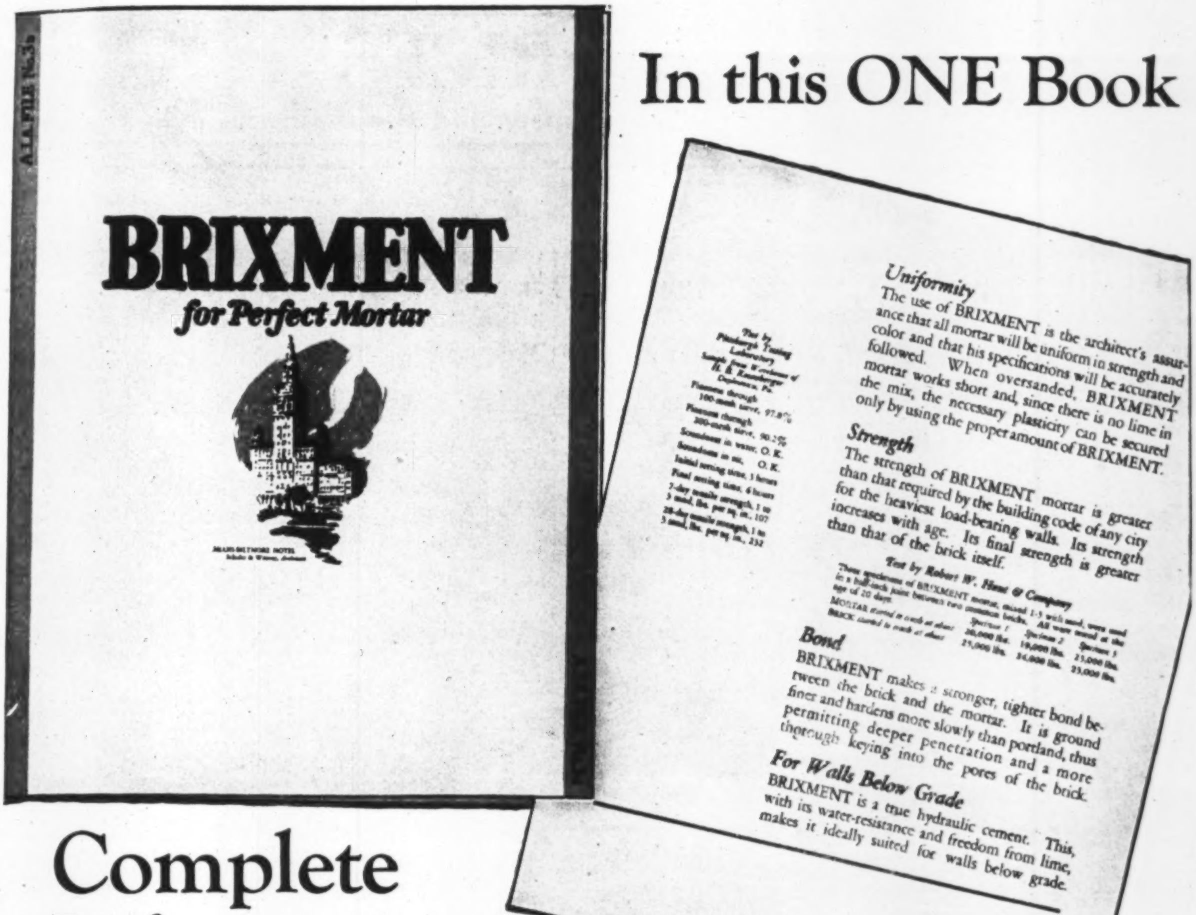
Concluded on page 72

UNIT PRICES *Continued on page 158*

In this ONE Book



A.I.A. FILE No. 3a

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The use of BRIXMENT is the architect's assurance that all mortar will be uniform in strength and color and that his specifications will be accurately followed. When oversanded, BRIXMENT mortar works short and, since there is no lime in the mix, the necessary plasticity can be secured only by using the proper amount of BRIXMENT.

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UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

			A	B	C	D	E	F	G	H
13 B	400 ft. 22 in. v. t.	12–16	3.70	3.90	3.40	3.50	2.90	5.00	3.76	3.70
11 E*	400 ft. 24 in. r. c.	12–16	3.30	2.90	2.60	3.25	2.90	6.00	2.98	3.00
13 C	1,650 ft. 20 in. v. t.	0– 8	3.00	2.50	2.60	2.25	2.60	4.80	2.65	2.65
11 F*	1,650 ft. 21 in. r. c.	0– 8	2.95	2.50	2.70	2.00	2.60	4.80	2.63	2.40
13 C	3,330 ft. 20 in. v. t.	8–12	3.05	2.55	2.70	2.75	2.60	5.00	2.78	2.90
11 F*	3,330 ft. 21 in. r. c,	8–12	3.00	2.70	2.70	2.50	2.60	4.80	2.73	2.65
13 C	2,270 ft. 20 in. v. t.	12–16	3.10	2.60	2.70	3.25	2.60	4.80	2.90	3.15
11 F*	2,270 ft. 21 in. r. c.	12–16	3.05	2.90	2.70	3.00	2.60	4.60	2.88	2.80
13 C	400 ft. 20 in. v. t.	16–20	3.15	2.70	2.70	4.75	2.60	7.00	3.15	3.30
11 F*	400 ft. 21 in. r. c.	16–20	3.10	3.10	2.70	4.75	2.60	6.50	2.98	3.05
13 D	685 ft. 18 in. v. t.	12–16	2.65	2.60	2.20	2.00	2.15	4.70	2.55	2.35
11 G	685 ft. 18 in. r. c.	12–16	2.50	2.35	2.25	2.25	2.15	4.60	3.10	2.40
13 E	840 ft. 15 in. v. t.	0– 8	2.05	1.60	1.50	1.50	1.45	3.00	1.60	2.05
11 H	840 ft. 15 in. r. c.	0– 8	2.15	1.70	1.55	2.00	1.45	3.00	1.92	1.90
	2,700 ft. 15 in. v. t.	8–12	2.05	1.70	1.50	2.00	1.45	3.50	1.74	2.30
	2,700 ft. 15 in. r. c.	8–12	2.15	1.80	1.55	2.50	1.45	3.50	2.05	2.15
	910 ft. 15 in. v. t.	12–16	2.10	1.80	1.50	2.50	1.45	4.00	1.86	2.55
	910 ft. 15 in. r. c.	12–16	2.20	1.90	1.60	3.00	1.45	4.00	2.17	2.40
	80 ft. 15 in. v. t.	16–20	2.15	1.90	1.50	3.00	1.45	6.00	2.11	2.80
	80 ft. 15 in. r. c.	16–20	2.25	2.00	1.60	3.50	1.45	6.00	2.29	2.65
	115 ft. 15 in. v. t.	20–24	2.25	2.00	1.60	3.50	1.45	8.00	2.60	3.05
	115 ft. 15 in. r. c.	20–24	2.35	2.10	1.65	4.00	1.45	8.00	2.48	2.90
13 F	70 ft. 12 in. v. t.	8–12	1.60	1.05	1.00	1.00	1.10	3.40	1.05	1.50
11 J	70 ft. 12 in. r. c.	8–12	2.00	1.30	1.35	1.50	1.10	3.40	1.61	1.90
	620 ft. 12 in. v. t.	12–16	1.60	1.10	1.00	1.50	1.10	3.80	1.30	1.75
	620 ft. 12 in. r. c.	12–16	2.00	1.40	1.35	2.00	1.10	3.80	1.86	2.15
16	100 manholes depth 0–10 ft.		100.00	125.00	105.00	90.00	100.00	110.00	111.60	100.00
16 A	70 ft. extra depth		15.00	20.00	15.00	10.00	25.00	20.00	12.40	10.00
16 B	25 ft. drop manholes		20.00	10.00	25.00	10.00	15.00	10.00	12.40	15.00
16 D	25 lock manhole covers		5.00	5.00	20.00	10.00	20.00	10.00	6.20	25.00
16 E	10 pressure manholes		100.00	600.00	300.00	400.00	150.00	400.00	142.60	160.00
17	200 tee branches		3.00	5.00	10.00	6.00	5.00	3.00	4.34	20.00
19	135,000 sq.ft. bituminous coating		.10	.05	.04	.10	.04	.02	.04	.04
20	300 cu.yd. broken stone		10.00	6.00	6.00	5.00	5.00	3.00	6.20	4.00
21 A*	200 ft. 42 in. special short length c. i. sewer pipe		60.00	25.00	28.00	20.00	25.00	22.00	21.53	....
*	390 ft. 36 in. special short length c. i. sewer pipe		50.00	20.00	24.00	17.00	20.00	20.00	14.76	....
*	50 ft. 24 in. special short length c. i. sewer pipe		27.00	10.00	15.00	8.00	15.00	16.00	9.52	....
21 B	200 ft. 42 in. class "A" c. i. pipe		22.00	25.00	26.00	20.00	25.00	25.00	18.04	30.50
	390 ft. 36 in. class "A" c. i. pipe		17.00	20.00	22.50	17.00	20.00	22.00	14.20	25.50
	50 ft. 24 in. class "A" c. i. pipe		10.00	10.00	14.00	8.00	15.00	18.00	8.18	17.00
22	25 cu.yd. rubble masonry		35.00	20.00	12.00	25.00	8.00	10.00	11.00	15.00
30	siphon at station 0+50 section 5 A		8,416.00	5,271.00	8,000.00	3,150.00	5,000.00	3,800.00	11,500.00	8,800.00
31	siphon at station 20+90 section 5 A		8,416.00	5,485.00	8,000.00	3,150.00	5,000.00	3,800.00	11,170.00	8,400.00
	Subtotal items 1 to 12		$338,877	$378,986	$387,145	$398,000	$454,919	$428,615	$498,779	$540,081
	Subtotal items 13 A to 13 F vitrified pipe		53,047	46,486	46,160	48,325	42,546	86,544	50,491	52,341
	Subtotal items 16 to 31		59,012	54,381	55,850	48,355	45,775	43,430	54,547	58,370
	Totals using vitrified pipe		$450,936	$479,853	$489,155	$494,680	$543,240	$558,589	$603,818	$650,792
	Subtotal items 1 to 12		$338,877	$378,986	$387,145	$398,000	$454,919	$428,615	$498,779	$540,081
	Subtotal items 11 E to 11 J rein. con. pipe		50,529	43,913	42,154	48,248	42,456	83,551	46,762	45,828
	Subtotal items 16 to 31		59,012	54,381	55,850	48,355	45,775	43,430	54,547	58,370
	Totals using rein. con. pipe		$448,418	$477,280	$485,149	$494,503	$543,240	$555,596	$600,089	$644,279

*Alternate to 21 B not included in total.

Engineering News-Record, Issue of Sept. 22, 1927.

Power House—Ponca City, Okla.

Bids were opened by City, July 14, for power house and yard structures, from (A) Interstate Constr. Co., 5703 Rockhill Rd., Kansas City, Mo., (awarded contract); (B) Holmboe Constr. Co., 426 West 2nd St., Oklahoma City; (C) Blaser-Vollmer Constr. Co., Ft. Scott, Kan.; (D) S. Patti Constr. Co., 626 Lee Bldg., Kansas City, Mo.; (E) Shallenberger Constr. Co., Tulsa; (F) Repass Bros. Co., 503 Frankel Bldg., Des Moines; (G) Carrothers & Forsythe Bldg. Co., Box 4658 Kansas City; (H) G. M. Robertson, 812 First Natl. Bank, Lincoln. The unit bids are as follows:

	A	B	C	D	E	F	G	H
Section No. 2—Power House & Salt House (lump sum)	$113,260.00	$124,800.00*	$122,900.00†	$118,515.00	$114,481.00‡	$.39,471.00§	$139,500.00¶	$116,941.00
Earth excavation	.75	.90	1.17	1.45	.80	.75	.50	.60
Class "A" concrete	16.00	23.00	18.67	17.70	21.00	16.00	22.00	17.25
Deduction from lump sum if terra cotta is used	2,570.00	1,200.00	400.00	1,641.00	1,6 5.00	500.00	1,000.00	1,283.00
Deduction from lump sum if precast stone is used	4,100.00	3,300.00	3,400.00	3,701.00	3,290.00	3,000.00	3,000.00	3,290.00
Section No. 3—Oil reservoir, hot-well, and cooling tower (lump sum)	10,700.00	15,000.00	12,000.00	11,149.00	10,728.00	8,679.00	13,750.00	11,860.00
Earth excavation	.75	1.00	1.17	1.45	.80	.75	.50	.60
Class "A" concrete	16.00	22.50	19.81	22.15	21.00	17.00	22.00	17.25
Will begin work in—days	15	15	5	10	7	20	30	10
Will complete work by	180 days	150 days	180 days	3½ months	Dec. 15, 1927	May 1, 1928	April 1, 1928	180 working days
Totals sections No. 2 and 3	$123,960	$137,800	$134,900	$129,664	$125,209	$148,150	$153,250	$128,801

NOTE—*Deduct $2,000 if awarded contracts 2 and 3. †Price is contingent upon being awarded both contracts. ‡Proposal for section No. 3 is contingent upon section No. 2 being awarded. §Bid on section Nos. 2 and 3 to be considered as a unit. ¶Bid No. 3 to be considered only in case awarded contract Nos. 2.

Engineering News-Record, Issue of Sept. 22, 1927.

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Municipal building annex, Washington, D. C., District Comrs. had sketches made, $10,000,000.

Sewers, Los Angeles, Calif., making plans, $9,860,000.

Apartment, Phila., Pa., Schultz & Weaver, archts., preparing preliminary plans, $6,000,000.

Apartment, New York, N. Y., J. Tishman & Sons having plans prepared, $3,000,000.

Exchange and office, Oklahoma City, Okla., Southern Bell Telephone soon lets contract, $3,000,000.

Pipe line, Texas, Magnolia Petroleum Co., making surveys, $2,000,000.

Coke plant, Richmond, Va., Virginia Domestic Coke Corp. plans plant, $2,000,000.

Women's prison, New York, N. Y., Dept. Correction takes bids in January, $2,000,000.

Apartments, New York, N. Y., Six West Seventy-Seventh Street Corp. having plans prepared, $2,000,000.

Schools, Tennessee, State Bd. Educ. and Bd. Educ. various counties having plans prepared, $2,000,000.

Apartment, Evanston, Ill., H. S. Jones having plans prepared, $1,100,000.

Office and lodge, St. Louis, Mo., Knights of Pythias takes bids about Oct. 6, $1,000,000.

Hotel, Paducah, Ky., G. Langstoff having plans prepared, $1,000,000.

Hospital, Belleville, N. J., Bd. Freeholders Essex Co. having plans prepared, $1,000,000.

Hotel and sanitarium, Atlantic Highlands, N. J., A. F. Amodis, archt. making sketches, $1,000,000.

Bids Desired

Office, Detroit, Mich., Oct. 4, by Smith, Hinchman & Grylls, archts. and engrs., $8,000,000.

Excavation, Freeport, Tex., Freeport Navigation Dist. taking bids and open same in November, diverting Brazos River, $1,500,000.

Hospital, Phila., Pa., Oct. 5, by W. E. Herring, $2,000,000.

Bids Received

Subway, New York, N. Y., Bd. Transportation from Marcus Contg. Co. $4,740,000; from Moranti & Raymond, $5,735,000; from M. Blunenthal, $10,000,000.

Office, Cincinnati, O., Fountain Square Co. from J. & F. Harig, $1,000,000.

Contracts Awarded

Office, Pittsburgh, Pa., Grant Bldg., Inc. to Thompson Starrett Co. New York City, Archts. est. $6,000,000.

Bridges, Virginia, James River Bridge Corp. to Turner Constr. Co., New York City, approximately, $5,000,000.

Office, Dallas, Tex., Southwestern Bell Telephone Co., St. Louis, Mo., to Henger & Chambers. Archts. est. $2,500,000.

Hotel, St. Louis, Mo., Teich & Sullivan, archts., Chicago, Ill., to Boaz-Kiel Constr. Co. Archts. est. $2,000,000.

Office, Phila., Pa., N. W. Ayers & Son to Ketcham and McQuaid. Archts. est. $1,600,000.

Hospital, Tucson, Ariz., U. S. Veterans' Bureau, Wash., D. C., general contract to Sumner Schlitt Co., Chicago, Ill. $787,134 and sub-contracts. Grand total $1,095,730.

Apartment, Hollywood, Calif., T. H. Miller to State Constr. Co., Los Angeles, $1,006,000.

News of the Week

Waterworks

Proposed Work

N. J., Gloucester—Plans extending mains to the Heights. $30,000.

Pa., Pittsburgh—Bureau of Water, City County Bldg., takes bids early in 1928, 1 mi. 30 in. main between Mission Pumping Station and Allentown tanks; also renewing steam boilers and equipment at Mission Pumping Station. $150,000.

Tenn., Cowen—Made preliminary plans new waterworks. $20,000. H. W. Thorogood, mayor. Engineer not selected.

Ind., Osgood—Takes bids about Oct. 19, complete waterworks, incl. pumping equipment, purification plant, distribution system 4, 6 and 8 in. c.i. pipe, etc. $75,000. Edward Flad & Co., Chemical Bldg., St. Louis, Mo., engrs.

Ill., Kenilworth—Making plans filtration plant and pumping station. $50,000. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs.

Kan., Irving — Voted $25,000 bonds, waterworks. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs.

Mo., Bowling Green — Voted $17,500 bonds, waterworks.

Tex., Junction—Plans improving waterworks, incl. fire protection system, etc. $25,000 or more.

Tex., Muenster—Voted $34,000 bonds, waterworks. Address mayor.

Tex., Poteet — Voted $40,000 bonds, waterworks. Address A. J. Goodfellow, mayor. Noted June 9.

Tex., San Angelo—San Angelo Water, Light & Power Co., (subsidiary of West Texas Utilities Co., Abilene), made plans two 300,000 gal. storage stand pipes, steel, two water towers, and larger mains in East Harris St. $100,000. T. Rowe, div. supt.

Ariz., Tucson—Soon takes bids waterworks. To exceed $15,000. Burns & McDonnell, 400 Interstate bldg., Kansas City, Mo. Noted Feb. 24.

Ont., Brampton—Making plans 6,500 lin.-ft. 16 in. c.i. main from here to Snells Lake. $31,000. Gore, Nasmith & Storrie, Confederation Life Bldg., Toronto, engrs.

S. A., Columbia — Barranquilla — City making plans filtration plant. $250,000. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, Ill., U. S. A., engrs.

Bids Desired

N. Y., New York — Sept. 30, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., laying and lowering low and high pressure watermains, etc. in Columbus and 12th Aves., Bond, Dykeman, Isham, West, East 14th Sts., etc.

N. J., Newark—Oct. 19, at office T. L. Raymond, Dept. Pub. Affairs, City Hall, 60 in. water conduit from Belleville Reservoir, Belleville to 8th Ave., here., dir.; adv. E. N.-R. Sept. 29.

Md., Baltimore—Oct. 5, by Bd. Awards, pumping equipment at Montebello Pumping Station. E. G. Rost, City Hall, water engr.

Md., Baltimore—Oct. 5, by Bd. Awards, at office City Register, City Hall, curb stop and roadway valve boxes to Bureau Water Supply. B. L. Crozier, ch. engr. E. G. Rost, water engr.

> *THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.*
>
> *Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.*

Miss., Eupora—Oct. 10, by City Clerk, 10,000 gal. reservoir, pump house, 5,000 gal. tank 24,550 ft. 1½- to 8-in. c.i. water mains and 20,660 ft. 6- to 12-in. sewers, etc., in various streets. $60,000. M. L. Culley, Jackson, engr.

Tenn., Gainesboro — Oct. 3, by Town, waterworks, incl. distribution system, 4,400 lin.ft. 6 in. c.i. pipe, 10 hydrants, etc. To exceed $15,000. Klyce & Harrub, 4th and 1st Natl. Bank Bldg., Nashville, engrs. Noted Oct. 7.

Mo., St. Louis — Oct. 25, by Bd. Pub. Serv., 208 City Hall, rein.-con. and brick coagulant house at Howards Bend Water Works, St. Louis Co. $275,000. L. Day, c/o Water Dept., comr. Noted Aug. 4.

Ark., Fort Smith—Oct. 17, by City Clerk, 8 m.g.d. high lift condensing turbo-centrifugal pumping engine, total lift 235 ft., incl. surface condenser, vacuum and condensate pumps, pipes, valves, fittings, fixtures and furnishings, venturi meter complate with indicator, integrator, recorder and appurtenances; low lift 8 m.g.d. low lift condensing turbo-centrifugal pumping engine, total lift 55 ft. W. H. Evans, City Hall, engr.

Tex., Center—Oct. 6, by City, tank and steel tower with maximum water line elevation 131 ft.

Tex., McAllen—See "Contracts Awarded."

Tex., San Antonio — Miller-Darrough, 1211 West Mistletoe St., taking bids distributing system, incl. 2- to 8-in. mains and laterals in 98 acre sub-division on Vance-Jackson Rd. $35,000 mostly materials. Private plans.

Contracts Awarded

Vt., Castleton—Prudential Com. of Incorporated Fire Dist. 1, water supply, incl. reservoir, 4 mi. 4 in. gravity and 4.5 mi. 4- to 10-in. distribution lines, to G. Ferullo Co., 31 North Sq., Boston, Mass. Engrs. est. $90,000.

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Avenues J, L, M and Q, Benson, Stanley, Canal, Flatlands, and Hegeman Aves., etc., here, to Dragonetti Constr. Co., 1123 Clinton Ave., New York City, $15,940. Noted Sept. 22.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Bleecker, Greene, Grove Sts., etc., here, to Norton Constr. Corp., 21 East 40th St., New York City, $39,100. Noted Sept. 8.

N. J., Denville—Twp. Com., Township Hall, concrete foundation for 250,000 gal. storage tank, and concrete, brick and steel pump-house, to Delta Constr. Co., 23 Overlook Rd., Summit, $17.20 per cu.yd. and $2,676 respectively; also tank, to R. S. Newbold & Son Co., Norristown, Pa., $3,990. Noted Aug. 25.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, chlorine apparatus for Belmont Mechanical Filters, Contr. 899, to Wallace

See proposal advertising on page 112

TRADE "LEADITE" MARK

Registered U. S. Pat. Office

Only 51 days between the decision to build an emergency water works plant - - *and the finished job!*

- - the speed with which Leadite jointing can be accomplished contributed to this remarkable feat.

THE line illustrated here is 26,000 ft. of 12" pipe with LEADITE joints.

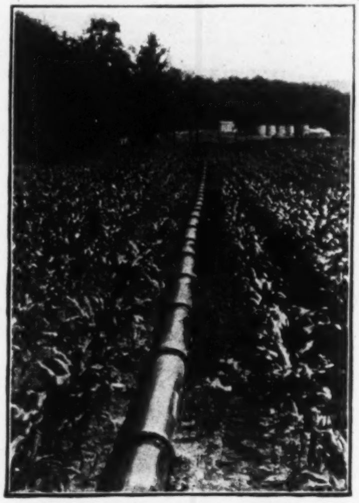
Owing to the emergency which arose in the city for which the installation was made no trenching could be attempted.

The line lies throughout its entire length on the surface of the ground without any bracing except at the bends.

After completion the line was tested to 260 lbs. pump pressure.

Specify and use LEADITE —it saves at least 75%

It is now under constant pump working pressure of 230 lbs. For over 30 years now, LEADITE has demonstrated by test and experience that it is absolutely permanent and secure.



Part of the 26,000 ft. installation, crossing an open field. Chas. E. Waddell & Co., Engineers.

Leadite is self-caulking and is so simple to use that the method of using it can be taught to even the most inexperienced help in a very short time.

Added to its speed and ease of use—Leadite saves at least 75% on account of saving in material and labor.

Be sure it is LEADITE and accept no imitations~~~

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

& Tierman Co., Inc., Belleville, N. J. $6,000. Noted Sept. 15.

D. C., Wash.—District Comrs., District Bldg., constructing Water Tower 2, at Reno Reservoir, here, to J. B. Ginechesi, 1635 Conn. Ave., $57,500. Noted Sept. 8.

Ill., Abingdon—Drilling well, etc. to Potsdam formation, to Thorpe Bros. Well Co., 224 Atlas Bldg., Des Moines, Ia., $24,702. Engrs. est. $27,000. Noted May 19.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, water service pipes in portions West 112th and 113th Places, South Rockwell, South Carpenter, Throop, Loomis, South Bishop and Laflin Sts., South Artesian, South Campbell, Jersey, Sangamon and South Maplewood Aves., to Washington Plumbing & Heating Co., 461 North Halsted St., portions St. Anthony Court, East 86th Pl., South Sangamon and East 86th Sts., Elston, Creiger, Constance, Bennett and Euclid Aves., to G. D. Hardin, 3139 Indiana Ave., portions Sherwin, Koman, South Tripp, Karlov, Kedvale, Keeler, Kildare, Kolin, Kostner, Kenneth, Kilbourne and Kolmer Aves., to Walsh & Metzer, Inc., 6828 South Chicago Ave.

Minn., Minnetonka Beach—Waterworks, incl. 50,000 gal. elevated tank, pump house and equipment, 400 ft. 6 in. suction, 600 ft. 8 in. force and 460 ft. 4 in. surface mains, to W. Fraser & Son, 1957 University Ave., St. Paul. Approximately $16,000.

Neb., Comstock—For 50,000 gal. tank on 100 ft. tower, to Drake-Williams-Mount Co., 23rd and Hickory Sts., Omaha, $5,950; 8,606 ft. 4 and 8 in. Class "B" c.i. pipe, to McWane Pipe Co., Birmingham, Ala., $7,354; pipe line, labor and pump house, to Knapp Constr. Co., Hastings, $4,830; 23 hydrants, valves and boxes, to Interstate Co., Omaha, $1,266; 10 in. well 95 ft. deep, pump and motor, to E. C. Archibald, Omaha, $3,345. Grand total $22,745. Noted Sept. 1.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, boiler settings for four 650 hp. boilers, incl. complete combustion control system, etc., for Howards Bend Waterworks Station on Missouri River, St. Louis Co., to J. V. Boland Constr. Co., Chemical Bldg., $43,209. Engrs. est. $40,000. Noted Aug. 11.

Mo., St. Louis—Bd. Pub. Wks., 208 City Hall, 202 x 250 ft. rein.-con. clear water basin at Howards Bend Waterworks Station on Missouri River, St. Louis Co., to Frazier-Davis Constr. Co., Arcade Bldg., $187,665. Engrs. est. $270,000. Noted Aug. 11.

Mo., Savannah — General contract impounding reservoir, puirfication system, mains and appurtenances in various streets, to F. Clark, Savannah, $75,785. Noted Aug. 18.

Tex., McAllen—Central Power & Light Co., San Antonio and San Benito, will build 8 in. mains by day labor. $30,000. Private plans.

Tex., Rio Hondo—City will construct new waterworks, by day labor, under supervision of C. E. Mallernee, Rio Hondo, $15,000 mostly equipment. Address Mayor.

Calif., Los Angeles—City Water & Power Comn., 60,000 ft. 6 in. welded steel, and 27,000 ft. wrapped steel, bell and spigot pipe, to Grinnell Co. of the Pacific, 520 Mateo St., $55.85 and $61.15 per 100 ft. respectively.

Calif., Pasadena—To Amer. C. I. Pipe Co., Rives-Strong Bldg., Los Angeles, 16,000 ft. 6 in. pipe at $0.555 per ft., 16,000 ft. 8 in. $0.80, both Class "150", 3,000 ft. 8 in. Class "350" $0.86, and 9,000 ft. 12 in. Class "150" $1.40, etc.; also to U. S. Cast Iron Pipe & Fdry. Co., Wright-Callendar Bldg., Los Angeles, 3,000 ft. 6 in. Class "250" $0.5836, and 2,500 ft. 16 in. Class "B" $2.327, etc.

Sewers

Proposed Work

Massachusetts—Dept. Pub. Health, State House, Boston, rejected bids Sept. 14, sewers, etc. at Westfield State Sanatorium, Westfield, and North Reading Sanatorium, North Reading. Will probably readvertise. G. H. Bigelow, comr. Noted Sept. 8.

Mass., Newton (br. Boston)—Plans sewerage works in Highland, Lewis, Talbot and Warden Sts., Greylock, Annapolis, Arapahoe, Bolton, and Westminster Rds., $50,000 or more. Private plans.

Conn., Terryville—Making preliminary plans and surveys sewage disposal system. To exceed $25,000. Sperry & Buell, Inc., 175 Main St., Bristol, engrs.

Pa., Lancaster — Making preliminary plans intercepting sewers, sewage pumping stations and treatment plant, Imhoff tanks and trickling filters, three 1,000 g.p.m. sewage pumps, etc. $900,000. Fuller & McClintock, Victory Bldg., Phila., engrs.

N. C. Thomasville—Making plans extending sewerage system, incl. 7000 ft. 18 in. outfall. W. C. Olsen, Raleigh B. & L. Bldg., Raleigh, engr.

O., Elyria—City, plans sewage treatment plant and sewers in various streets, here. $600,000. G. B. Gascoigne, Leader Bldg., Cleveland, engr.

Ind., Elkhart—Bd. Pub. Wks. soon takes bids local sewers in various streets. $35,000; and pre-cast district sewers, $200,000. Former bids rejected. Burns & McDonell Eng. Co., 401 Interstate Bldg., Kansas City, Mo., engrs. Noted Apr. 21.

Ill., Aurora—Voted $1,000,000 bonds, sewage disposal plant. W. E. Deuchler, city engr. Noted Dec. 30.

Ill., Belleville—Takes bids about Jan. 1, straightening Richland Creek, also storm, sanitary and intercepting sewers, sewage disposal plant, etc. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs. Noted Aug. 18.

Ill., Centralia—Making preliminary plans sewage disposal plant and extending sewers in various streets. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs.

Ill., Springfield—Making estimates sewerage system. $85,000.

Ill., Taylorville — Making preliminary plans extending sanitary sewers in various streets and complete sewage disposal plant, etc. $250,000.

Ia., Burlington—Soon takes bids 3,426 ft. 24- to 48-in. rein.-con. storm sewers. $25,000. Burns & McDonnell Eng. Co., 401 Interstate Bldg., Kansas City, Mo., engrs. Noted Feb. 10.

Kan., Concordia—Making plans extending sewers in various streets. To exceed $25,000. C. A. Haskins, 822 Finance Bldg., Kansas City Mo., engr.

Mo., Desoto—Making preliminary plans complete sanitary sewerage system, incl. disposal plant, etc. $130,000. C. A. Haskins, 822 Finance Bldg., Kansas City, engr.

Mo., Marshall—Making plans sewerage system and disposal plant. $25,000. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, engrs.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making preliminary plans 800 ft. Rock Creek Sewer, addition to approximately $80,000; and constructing relief sewer serving district adjacent to Branch St., $350,000-$400,000. W. W. Horner, 300 City Hall, engr.

Mo., Springfield—Takes bids about Oct. 11, Southwest Outfall Sewer, 10,400 ft. 30 in. and 1,500 ft. 16 in. double pressure line, $65,000; also sewage disposal plant, clarifiers, digestors, dosing tank, trickling filter, etc., $185,000. Russell & Axon, 404 McDaniel Bldg., engrs.

Ark., Little Rock—Making preliminary plans approximately 18,000 ft. sewers in Hollenberg and Lincoln Park additions.

Tex., Laredo—See "Bridges."

Tex., Livingston—City, C. Sory, mayor, soon takes bids sewerage system and disposal plant. $50,000 bonds voted for same. F. J. Von Zuben, 611 Dan Waggoner Bldg., Fort Worth, engr.

Tex., Muenster—Voted $50,000 bonds, sewerage system. Address Mayor.

Tex., Sherman—Voted $50,000 bonds, complete sewerage system. Address R. L. McClellan, Sherman, mayor. Devlin Eng. Co., 127 Central Bldg., Amarillo, consult. engrs.

Tex., Spearman—Takes bids after Oct. 1, sanitary sewerage system. $50,000. Devlin Eng. Co., 127 Central Bldg., Amarillo, engrs. Noted Sept. 22.

Calif., Long Beach—Making plans sewer in industrial section city. $800,000. A. H. Adams, city engr.

Calif., Los Angeles — Making plans Leonard St. Storm Drain, $1,800,000; sewer in area between Sects. 2 and 3 Jefferson St. Storm Drainage System, $670,000; Arroyo de los Posos Storm Drain, $800,000; El Sereno Valley Storm Drain, $250,000; extending Arroyo de la Sacatella Storm Drain, $4,000,000; sewer in Wilcox Ave. between Hollywood Mountains and Pico Blvd. and between Van Ness Ave. and Seward St., $1,500,000; storm drain in Dorchester Ave. and portions cities of South Pasadena, Alhambra and Los Angeles, $420,000; storm drain in Parkdale Ave. and in portions of cities of Glendale and Los Angeles between Colorado Blvd. and Los Angeles River, $420,000; also storm drain in Jefferson St., etc. Total $9,860,000. L. W. Armstrong, Los Angeles, storm drain engr.

Calif., Redwood City—Plans 4- to 10-in. sewers in Tulip Ave. and Fir St., etc. To exceed $25,000.

Calif., Redlands—C. P. Hook, city clk., made plans 8 in. vitr. sewer, etc. West State and Mill Sts., etc. To exceed $25,000.

Que., La Tuque—Corporation plans constructing sewerage system. $75,000.

Ont., New Toronto—Making plans ½ mi. concrete or vitr. tile trunk sewer in 19th St. $37,000. James, Proctor & Redfern, 36 Toronto St., engrs.

Bids Desired

N. Y., West Haverstraw — Oct. 6, by Superintendent Standards & Purchase, Div. Standards & Purchase, Capitol, Albany, sewers and water service connections at New York State Orthopedic Hospital for Children, here; adv. E. N.-R. Sept. 29.

Pa., Phila.—Oct. 5, by Dept. Pub. Wks., Bureau of Engineering, branch sewers in Island, Guyer and Roxborough Aves., Burton, Glenloch, Marsden, Larue, Fraley, Duffield, G, I, Loretto Magdalena, Wendover Sts. G. H. Biles, dir.

O., Akron—Oct. 6, by W. F. Peters, dir. Pub. Serv., 905 ft. 10- to 20-in. vitr. clay and 2,370 ft 30- to 48-in. brick or segmental block sewer in Aqueduct St. Outlet, $39,000; 200 ft. 8- to 24-in. vitr. clay, 3,130 8- to 20-in. vitr. clay, 1,425 ft. 33- to 36-in. brick or segmental block sewer in Gottwalt and South Main Sts., $46,900. J. E. Rott, Municipal Bldg., engr.

O., Columbus—Oct. 4, by W. H. Duffy, dir. Service, 7,095 ft. 15- to 48-in. vitr. sewer, etc. in Mound St. $45,582. R. H. Simpson, city engr.

O. Dayton—Oct. 31, by W. W. Morehouse, dir. Water Dept., City Bldg., sewage treatment plant.

Wis., Milwaukee—Oct. 6, by Metropolitan Sewerage Comn., 508 Market St., main sewer known as Metropolitan Contr. 44, and extending 14th Ave. Sewer, 5,290 ft. 15 and 18 in. tile, and 273 ft. standard manholes, etc. $50,000. R. Cramer, c/o owner, ch. engr.

Minn., Perham—Oct. 18, by S. W. Lotterer, village clk., sewerage system and disposal plant, Imhoff tank, etc. $80,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs.

Minn., South St. Paul—Oct. 3, by J. R. Stevenson, city recdr., approximately 2,500 lin.ft. 4 to 5 ft. trunk sewer, etc. in Church St. $25,000.

Mo., Moberly—Taking bids sewage disposal plant, incl. grit chamber, clarifier, sludge digestor bed, pumping equipment, etc. for western section city. $32,559. Former bids rejected.

Calif., Weed — C. H. Kirk, clk. Shastina Sanitary Dist., taking bids 18,014 lin.ft. 6- to 12-in. vitr. sewer, etc. in various streets. Ream & Mackey, Mt. Shasta, engrs.

Contracts Awarded

Massachusetts—South Essex Sewerage Dist. Salem, for 4,150 lin.ft., 30 x 42 and 33 x 34 in. concrete trunk sewers in Sect. 7, Beverly and Danvers, to Welch & Moynihan, Salem. $72,000. Noted Sept. 15.

N. J., Vineland—Bd. Boro Comrs.. Boro Hall, sewage disposal plant on Mill Rd., to E. R. Moorehouse, 1361 Park Blvd., Camden, $80,722. Noted Sept. 22.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, to F. Jaffolla, 10 Ryders Ave., Cheltenham, branch sewers in Betts Ave. $2,219, to A. Corrado, 5920 Magnolia Ave., Bridge St. $1,590, to Vattieri & Pontarelli, 523 Rising Sun Ave., City Ave. $1,540, D St. $8,294, and Devereaux St. $4,928, to Garson & Garson, 1243 North 58th St., 58th St. $5,638 and Simon St. $3,782, to A. DiSandro & Son, 6400 North 5th St., Gerhard St. $8,266, and Indian Queen Lane $10,809, to A. Mattia, 310 North 65th St., Granite St. $2,493, to V. S. Campbellone, 3856 North 10th St., Herbert St. $2,074, and Milner St. $3,764, and to Pasquale Pinciatti, 4103 Roosevelt Blvd., Ruan St. $2,645; also to F. T. Buckins, Jr., 4050 Kensington Ave., inlets, laterals, etc. $34,000. Grand total $91,042. Noted Sept. 8.

Pa., Pittsburgh—For 9 and 15 in. terra cotta and 48 in. brick sewers in Bond St., to M. Manella, 224 South Atlantic Ave., $25,302. Engrs. est. $27,500.

Mich., Dearborn—Constructing Sect. 1, Southwestern Trunk Sewer, 6,345 ft. 8 in. to 10 ft. pipe, etc., to Blanck & Gargaro, 40 Seven Mile Rd. E., Detroit., $173,133.

Mich., Detroit—Dept. Pub. Wks., Lateral Sewers 4896, 4903, and 4904, concrete to Franklin Constr. Co., 4150 McDougall Ave., $136,062; and Lateral Sewer 4889, brick, to J. Rossi, 4148 Seneca Ave., $34,000.

Ill., Chicago — Clerk Sanitary Dist. of Chicago, 910 South Michigan Ave., North Side Sewage Treatment Works, Div. R centrifugal c.i. pipe, to Dowdle Bros. Co., 77 West Washington St., $937,770. Noted Aug. 4.

Sewers (Continued)

Ill., Chicago — Bd. Local Impvts., Room 207, City Hall, tile sewers with brick manholes and brick catch basins in portions East 91st St., Cornell, Creiger, East End and Ridgeland Aves., to Alfonso Scully, 5467 Kamerling St., portions South California Ave., to G. Barry, 5924 South Wabash Ave., portions Wallace St., to L. Scully, 82 West Washington St., portions North Mozart, North Richmond and North Whipple Sts., Lincoln, North Francisco and North Sacramento Aves., to J. Tirtilli, 732 South Ashland Ave., portions Elston and North Maplewood Aves., to M. De Vito, portions West 87th St., Normal and Sangamon Sts., to M. Murphy, 5854 South Michigan Ave., and portion South Talman Ave., to A. Santucci, 916 South Ashland Blvd.

Ill., Tessville (mail Morton Grove)—Sewer drains, lead service pipes and house drains, to G. Hardin, 3139 Indiana Ave., Chicago, $25,511. Noted Apr. 21.

Wis., Lake (St. Francis P.O.)—Sewers and laterals in Norwich, Sheridan, Griffin and Austin Sts., Van Beck, Court, Howell, Burdick Hanson, Jordan, Howard and Pine Aves., to N. Tomaro, 909 Layton Ave., Cudahy $17,265 and $7,980 respectively. Noted Aug. 25.

Wis., Milwaukee — Bd. Pub. Wks., to Zimmermann & Zimmermann, 3402 Wisconsin A e., sewers in Burleigh St. $5,353, Dixon St. $6,260, Roder Court $801, and Siegfried Pl. $8,240; to Milwaukee Sewer & Drain Co., 928 Humboldt Ave., Chase St. $3,898; to A. H. Koch, 300 Martha Washington Dr., Wauwatosa, East Ohio Ave., $8,795; to Clayton Constr. Co., 5102 Burleigh St., Main St., $6,621; and to Wenzel & Henoch, 49th and State Sts., Taylor Ave., $33,244. Grand total $73,212.

Neb., Fremont—Bd. Pub. Wks., drainage work and storm sewers in various streets, to A. A. Dobson Co., 809 1st Natl. Bank Bldg., Lincoln, $61,900.

Mo., Cape Girardeau—W. C. Kaempfer, city clk., 6- to 60-in. vitr. clay sewers in South End Sewer Dist. 3, to Tom Johnson, Inc., Kansas City, $72,900. Engrs. est. $95,000. Noted Aug. 25.

Mo., Rolla—For 23,052 ft. 8 and 12 in. sewers in various streets, sewage disposal plant and ejector station, to J. O'Neil, Fort Leavenworth, Kan. $42,862. Engrs. est. $50,000. Noted Aug. 11.

Tex., Mercedes—Excavating for sewage disposal plant, to R. W. Briggs & Co., Pharr, $21,300; City will purchase and install machinery, incl. pumping unit and pipe, $10,000. Noted Mar. 24.

Calif Garden Grove—Extending outfall sewer in West Ocean Ave., etc., to P. Barnett, Orange, $31,558.

Calif., Hayward—Vitr. outfall sewer, to M. Murphy, 1321 Milvia St., Oakland, $65,815. Noted Aug. 25.

Calif., Los Angeles—Los Angeles Co., sewer in Cudahy St., Impvt. 548, to M. N. Guho, 5316-8th Ave., $186,859. Engrs. est. $177,113. Noted Sept. 22.

Calif., Monterey—Vitr. sewer, etc. in Pacific St., etc., to C. E. Prentiss, San Jose, $25,420.

Ont., Stamford—Stamford Twp. Council 4 mi. 8 in. and up vitr. tile sewers in various streets, here, to A. Cope & Son, 19 Albert St., Hamilton, $30,327. Noted Sept. 1.

Waste Disposal

Proposed Work

N. J., Linden — Boro plans incinerator. $50,000-$100,000. Engineer not selected. A. F. Weber, mayor.

N. J., Point Pleasant—Bd. Council takes bids about Oct. 10, septic tank. $150 000. R. Havens, 431 Railroad Sq., engr. Noted Sept. 22.

Contracts Awarded

N. J., West Orange—Bd. Council, Town Hall, 2 story, brick, steel and concrete incinerator, to Nye Odorless Incinerator Co., Georgia Life Bldg., Macon, Ga., $60,000.

N. C., Raleigh—City Comn., incinerator, capacity 8 tons per hr. to Nye Odorless Crematory Co., Macon, Ga., $60,000. Noted Sept. 15.

Bridges

Proposed Work

N. J., Ocean City—Ocean City-Longport Automobile Bridge Co., plans bridge from here to Fish Factory Island. $600,000. Engineer not selected.

Pa., Pittsburgh — Dept. Pub. Wks. soon takes bids bridge over Pennsylvania R.R. tracks, on South Aiken Ave. $203,000. Bureau of Bridges, City County Bldg., engrs.

Pa., Pittsburgh—Dept. Pub. Wks. making plans bridge, on Elizabeth St., Hazelwood, $145,000; and bridge over Pennsylvania R.R. tracks, 28th St. $184,000. Bureau of Bridges, City County Bldg., engrs.

North Carolina — State Hy. Comn., Raleigh **(S.A.P. means State Aid Project)**, plans rein.-con. bridges, etc. over Tar River, on S.A.P. 182, Pitt Co., $160,000; on S.A.P. 335, Columbus Co., $40,000; also S.A.P. 604, Alexander Co., $48,000. L. R. Ames, Raleigh, engr.

La., Bastrop—Making preliminary plans rein.-con. and steel viaducts over railroad tracks. $75,000 upwards. A. C. Volk, City Hall, engr.

Tenn., Gordonsville — Smith Co. (Carthage) plans steel and concrete bridge over Caney Fork River, near here. To exceed $25,000.

Ohio—See "Streets and Roads."

O., Warren—Plans bridge on West Market St. $229,000.

Mich., Mt. Clemens—Road Comn. Macomb Co. made plans 35 ft. T-beam type rein.-con. girder bridge, 25 ft. roadway over Plum Creek, on Ryan Rd. $50,000. W. Lehner, Ulrich Bank Bldg., engr.

Kan., Kansas City — Wyandotte Co. making surveys and plans reconstructing bridge over Kansas River, recently damaged by fire. $40,000. O. K. Williamson, Kansas City, engr.

Kan., Winfield—Cowley Co., plans two 100 ft. and four 30 ft. span bridge. B. Boyle, Winfield, co. engr.

N. D., Kurts (br. Glen Ullin)—Northern Pacific Ry. Co., H. E. Stevens, ch. engr., St. Paul, Minn., made plans rein.-con. viaduct. $25,000.

Mo., Springfield—C. A. Dickerson, city clk., takes bids about Oct. 4, 1,100 ft. rein.-con., bent and T-beam viaduct on Benton Ave. $200,000. Russell & Axon, 404 McDaniel Bldg., engrs. F. D. Hughes, city engr. Noted July 28.

Tex., Ft. Worth—Making plans and soon takes bids rein.-con. bridge over Marine Creek, on Main St. $35,000. D. L. Lewis, city engr.

Tex., Houston—Made plans bridge over Bualo Bayou. $50,000. J. C. McVea, city engr.

Tex., Laredo — Voted $155,000 bonds, bridges, septic tank, electric traffic signal, and 2 fire stations. Address City Secretary or F. C. Hines, Laredo, engr.

Oklahoma—State Hy. Dept., Oklahoma City, plans 108 ft. steel truss bridge on concrete piers over Cedar Creek, near Cement, Caddo Co., $45,000; 96 ft. steel truss bridge on concrete piers over Cole Creek, near Carnegie, Caddo Co. $40,000; and 200 ft. truss bridge over Rainy Mt. Creek, near Kiowa, Mt. View Co., $60,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

California—Santa Fe R.R. R. B. Ball, ch. engr., 6th and Main St., Los Angeles, making plans bascule type railroad bridge over Middle River in San Joaquin Co. $400,000.

California—Stanislaus Co. (Modesto) and San Joaquin Co. (Stockton) plan Burneyville Bridge over Stanislaus River. To exceed $30,000. Stanislaus Co. appropriates $20,000 toward cost. J. H. Hoskins, Modesto, surv. former and F. E. Smith, Stockton, surv. latter counties.

Bids Desired

N. Y., Buffalo—Oct. 31, at office Dept. Pub. Wks., Municipal Bldg., substructures of bridges crossing improved channels Buffalo River and Cazenovia Creek in line of Bailey Ave. as relocated; adv. E. N.-R. Sept. 29.

N. Y., Peekskill—Oct. 11, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, constructing Peekskill Creek Trestle, in Bronx Parkway Extension, here. J. Downer, Bronxville, ch. engr.; adv. E. N.-R. Sept. 29.

New Jersey—Oct. 10, by State Hy. Comn., Trenton, steel and concrete bridge over Timber Creek, on Route 6, M. P. 28.5, Camden and Gloucester Counties. A. L. Grover, ch. clk.; adv. E. N.-R. Sept. 29.

La., Oak Ridge—Oct. 13, by Police Jury Morehouse Parish, Bastrop, Beouf River Bridge, 323 ft. span creosoted timber, 5 mi. east of here; Norman Bridge, 200 ft. span creosoted timber 4 mi. east of here; and Hamby Slough Bridge, 100 ft. span 4 mi. east of here. J. L. White, parish engr.

Ohio—Oct. 7, by G. F. Schlesinger, dir. Highways & Pub. Wks., concrete slab bridge on Sect. "D" Ashland-Oberlin Rd., Ashland Co., $9,400; 24 ft. span bridge on Sect. "I" Cambridge-Barnesville Rd., Guernsey Co., $4,626; 5 slap top concrete bridges on Sects. "B" and "C" Mallet Creek-Bay Village, Medina Co., $12,279; and concrete beam bridge on Sect. "B" Loudonville-Lexington Rd., Richland Co., $10,315.

Michigan—Oct. 5, at Macomb Co. Road Office, Mt. Clemens, State Reward Bridge 1 of 50-10-23, Contrs. 1 and 2, two 35 ft. spans for State Hy. Dept., Lansing. C. I. Cowgill, Plymouth, resident engr.

Michigan—Oct. 6, by G. H. Green, resident engr., Alpena, Trunk Line Bridge 65-1-1, Contrs. 1 and 2, 150 ft. span Pratt truss type, Oscoda Co., for State Hy. Dept., Lansing.

Michigan—Oct. 6, by G. D. Tramp, resident engr., Crystal Falls Trunk Line Bridge 2 of 7-4-2, Contrs. 1 and 2, 70 ft. span, steel deck, Baraga Co., for State Hy. Dept., Lansing.

Ill., Chicago—Nov. 3, by Clerk Sanitary Dist. of Chicago, 910 South Michigan Ave., fabrication, erection and completion double leaf trunnion bascule bridge over Main Drainage Channel of Sanitary Dist. of Chicago on line of Crawford Ave. T. J. Crowe ,pres.; adv. E. N.-R. Nov. 29. Noted Sept. 22.

Kan., Ashland—Oct. 14, by Clark Co., 23 span pile trestle bridge, on K-21, Federal Aid Project 365-A.

California—Oct. 10, at office, R. M. Morton, engr. State Hy Dept., Sacramento, one 30 ft. span and two 14 ft. span rein.-con. girder bridge across Stone Corral Creek, approximately ½ mi. north of Maxwell, also one 22 ft. span and two 16 ft. span bridge over Funks Slough, 1 mi. south of Delevan, both Colusa Co.; two 30 ft. span bridge approximately 8 mi. north of San Juan Capistrano over Aliso Creek, and two 15 ft. span bridge 2 mi. south of Tustin both Orange Co.; two 40 ft. span bridge over Warm Creek approximately 1 mi. south of San Bernardino, and six 50 ft. span bridge over Santa Ana River approximately 2 mi. south of San Bernardino, also one 29 ft. 10 in. span bridge over Mission Storm Drain, approximately 6 mi. southeast of San Bernardino, all foregoing in San Bernardino Co.

Calif., Riverside — D. G. Clayton, clk. Riverside Co., taking bids rein.-con. arch bridge over Tahquitz Creek, on Riverside Co. Highway. Route 18-B, 13,500 lb. reinforcing, 15,000 ft. lumber, etc., and bridge over Temescal Wash., on same highway, Route 2, 1,700 tons reinforcing, etc. A. C. Filmour, Riverside, co. engr.

Contracts Awarded

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, bridge over Arthur Kill Rd., to J. E. Walsh, Inc., Tottenville, $17,826. Noted Sept. 15.

N. J., Matawan—Bd. Freeholders Monmouth Co., Court House, Freehold, bridge and dam, here, to R. S. Findlay, Red Bank, $26,679. Noted Sept. 8.

N. J., New Providence—Union Co., Elizabeth, bridge and approaches over Pacific River, here, to H. E. Terrill, Linden, $27,775. Noted Sept. 22.

Pa., Carnegie—Comrs. Allegheny Co., Court House, Pittsburgh, constructing Bridge 6 over Chartiers Creek, here, to J. W. Powers, Spring Garden Rd., Pittsburgh, $79,890. Engrs. est. $100,000.

Pa., Pittsburgh — Superstructure for 4 span, 430 ft. bridge over Pennsylvania R.R. tracks on Millvale Ave., to Independent Bridge Co., May Bldg., $122,400. Noted Jan. 20.

Virginia—James River Bridge Corp., H. H. Little, pres., Norfolk, 300 ft. lift span bridge over James River at Jamestown, also two 90 ft. bascule lift span bridges, one over Chuckatuck Creek, and other over Nansemond River near Suffolk, to Turner Constr. Co., 420 Lexington Ave., New York City, approximately $5,000,000. Noted Jan. 13.

W. Va., Elm Grove (br. Wheeling)—Baltimore & Ohio R.R. Co., H. A. Lane, ch. engr., Baltimore, Md., 700 to 800 ft. steel bridge, 66 ft., here, to Vang Constr. Co., Bessemer Bldg., Pittsburgh, Pa. Engrs. est. $400,000.

North Carolina—State Hy. Comn., Raleigh. rein.-con. bridges, etc. on Project 531, Gulford Co., to N. L. Teer, Durham, $25,617; and on Project 869, Polk Co., to Kiker & Yount, Reidsville, $34,074. Noted Aug. 11.

Bridges (Continued)

Tennessee—State Dept. Highways & Pub. Wks., Nashville **(S.A.P. means State Aid Project and F.B.P. Federal Bridge Project)**, to Whiting-Turner Constr. Co., Stewart Bldg., Baltimore, Md., 6 steel span substructure and concrete approach spans for bridge over Tennessee River at Loudon, S.B.P. 1-A, Loudon Co., $520,031; to Hardaway Contg. Co., Columbus, Ga., 5 steel span substructure and concrete approach spans for bridge over Tennessee River at Trotters Landing, S.B.P. 2-A, Benton and Humphreys Counties, $19,723; to Lawrence Constr. Co., Jackson, Miss., 3 concrete deck girder overflow bridges near Trotters Landing, State Highway 1, S.B.P. 2-B, Benton Co., $122,450, and 6 concrete steel bridges over 20 ft. span F.A.P. 213 A and B Weakley and Obion Counties $133,263; to C. G. Kershaw Constr. Co., Edward Bldg., Birmingham, Ala., 3 steel span substructure and concrete approach spans for bridge over Tennessee River at Savannah, S.B.P. 3-A $505,222, and 3 concrete deck girder overflow bridges on State Highway 15, S.B.P. 3-B $224,029, both Hardin Co.; to Beeler & Co., Johnson City, steel concrete bridge and approach over Wautauga River near Elizabeth, S.A.P. 182-B, Carter Co., $49,397, to W. H. Shons Co., 11 South Liberty St., Freeport, Ill., concrete-deck girder bridge over Sulphur Fork Creek near Springfield, S.A.P. 336-B, Robertson Co. $18,968, concrete deck girder bridge and approaches on State Highway 2, S.A.P. 356-C, Hamilton Co., $92,725, and 2 concrete deck girder bridges over Samon Creek and Yellow Creeks, S.A.P. 36-A, Houston Co., $24,493; to J. F. Mullins, Pine Bluff, Ark., 7 rein.-con. timber and steel bridges S.A.P. 360-A and C, Lake and Obion Counties, $47,081; to J. L. Moss, Webster Grove, Mo., 2 concrete culverts on Huntington Rd., F.A.P. 51-A, Carroll Co., $7,958. Grand total $1,765,341. Noted Aug. 4 and 25.

Ky., Calhoun—Calhoun-Rumsey Bridge Co., Toledo, O., 1,060 ft. toll bridge over Green River, here, to Nashville Bridge Co., ft. Shelby Ave., Nashville, Tenn. Engrs. est. approximately $200,000.

Ky., Hazard—State Hy. Dept., Frankfort, two 29 ft. and two 29½ ft. rein.-con. spans and rein.-con. substructure for 180 ft. steel bridge, Perry Co., here, to Vincennes Bridge Co., Vincennes, Ind., $25,432; also 1 span steel superstructure for same, to Tennessee Bridge & Steel Co., Johnson City, $23,608. Noted Aug. 25.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, 0.199 mi. steel bridge on Sect. "E" West Union-Hillsboro Rd., Adams Co., to Brookville Constr. Co., Brookville $23,995; and 154 ft. bridge on Sect. "Corwin" Franklin-Wilmington Rd., Warren Co., to C. H. Hittle, Lebanon, $27,793; concrete beam bridge on 0.02 mi. Sect. "Salineville" Wellsville-Salineville Rd., Columbiana Co., to R. Moore, Ostrander $18,880, and bridge on 0.321 mi. Sect "A" Waverly-Coopersville Rd., Scioto Co., to E. P. Hinton, Chillicothe $23,324; 80 ft. steel plate bridge on Sect. "C" Haysville-Nashville Rd., Ashland Co., to Funk & Kyler, Jeromeville, $8,365; rein.-con. arch bridge on 0.162 mi. Sect. "S" Cleveland-East Liverpool Rd., Columbiana Co., to H. C. Armstrong, Lisbon, $33,671; 4 concrete slab bridges on Sect. "Rodgers East" Lisbon-East Palestine Rd., to Allison-Harris Constr. Co., East Liverpool, $38,083; also widening 2 bridges on Sect. "F" Urbana-Marysville Rd., Champaign Co., to T. Prugh, London $5,694, and I-beam steel bridge on Sect. "A" Carthage-Hamilton Rd., Hamilton Co., to V. F. Hughes, Hamilton $2,833. Grand total $182,598. Noted Sept. 1.

O., Cincinnati—C. O. Sherrill, city mgr., City Hall, two 75 ft. span concrete and steel bridge over West Fork Creek, to Gradison Constr. Co., 701 1st Natl Bank, $29,020. Engrs. est. $35,000. Noted Aug. 25.

O., Cleveland—Cleveland Union Terminal Co., C. L. Bradley, pres., 600 ft. rein.-con. and steel bridges, 66 ft., on Bway., to W. J. Schirmer Co., 1720 Euclid Ave. Engrs. est. $400,000. Noted Sept. 15.

O., Cleveland—Bd. Comrs. Cuyahoga Co., 2,872 ft. rein.-con. bridge on Wooster Pike, to M. E. Nelson, United Bank Bldg., $65,674.

O., Dayton—Montgomery Co., Court House, superstructure 200 ft. span through truss steel highway bridge, 20 ft. over Twin Creek, on Oxford Rd., German Twp., to Central States Bridge Co., 601 Beecher St., Indianapolis, Ind., $37,390. Noted Aug. 25.

O., Lisbon—Comrs. Columbiana Co., constructing bridge at East Liverpool, to H. C. Armstrong, $33,672. Engrs. est. $35,000. Noted July 22.

Michigan—Amer. Transit Co., 1224 Dime Bank Bldg., Detroit, and 100 Bway, New York City, constructing main and anchorage piers for International Bridge, having 1,800 ft. clear span, 135 ft. high; caissons for foundation to be 22 ft. wide, 118 ft. deep, and 104 ft. long over Detroit River between Detroit and Windsor, to Foundation Co., Fulton Bldg., Pittsburgh, Pa. Noted May 12.

Michigan—E. R. Benkert, resident engr., Port Huron, Trunk Line Bridge 1 of 77-6-3, Contr. 1, two 25 ft. spans, St. Clair Co., to Bishop & Weir, 955 East Jefferson St., Detroit, for State Hy. Dept., Lansing. $26,143.

Michigan—At Genesee Co. Road Office, Flint, Trunk Line Bridge 1 of 25-16-5, two 55 ft. spans, for State Hy. Dept., Lansing, Contr. 1 to McClintic-Marshall Co., 1242 Book Bldg., Detroit, $4,516; and Contr. 2, to E. C. Nolan & Son, Detroit, $31,711. Noted Sept. 1.

Michigan—C. L. Cowgill, resident engr., Plymouth, F. A. Bridge 2 of 50-13-5, Contr. 1, two 50 ft. spans, Macomb Co., for State Hy. Dept., Lansing, Contr. 1, to McClintic-Marshall Co., 1242 Book Bldg., Detroit, $4 409; and Contr. 2, to T. E. Currie Co., 909 Transportation Bldg., Detroit, $20,173. Noted Sept. 1.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridge on Route 72. Sect. 113-B, Carroll Co., to Stevens Bros., 612 Endicott Bldg., St. Paul, Minn., $11,045; and bridge on Route 182, Sect. 101-B, Marion Co., to Chernus Constr. Co., Sioux City, Ia., $20,745.

Wisconsin—State Hy. Comn., La Crosse, constructing Bad Axe Bridge, Job 5022, Vernon Co., to Lakeside Bridge & Steel Co., North Milwaukee St., Milwaukee, $83,155.

Wis., Milwaukee—Bd. Harbor Comrs., dredging near Kinnickinnic River and depositing earth at east side Jones Island, for Milwaukee Co., to Great Lakes Dredge & Dock Co., 216 West Water St., at $0.3125 per cu.yd. Engrs. est. $31,500.

Kansas—State Hy. Comn., Topeka, bottom chord arch bridge, on Federal Aid Project 243-A, Pottawomie and Wabaunsee Counties, to Western Bridge Co., Harrisonville, Mo., $125,333.

Kan., Seneca—See "Streets and Roads."

Missouri—State Hy. Comn., Jefferson City, two 6 ft. rein.-con. slab spans, etc. over creek, two 20 ft. rein.-con. slab and one 35 ft. rein.-con. deck girder spans, etc., over Dry Creek, Bollinger Co., to Carte-Harlin Constr. Co., West Plains $949 and $8,844 respectively; two 10 ft. rein.-con. slab spans, etc. over Town Creek, Cass Co., to E. E. Johnson, Carrollton, $3,655; two 10 ft. rein.-con. slab spans over Dry Branch and one 16 ft. timber bridge over Side Ditch, St. Clair Co., to Kelly & Underwood, Granby, $3,940 and $476 respectively; one 60 ft. arch and four 16 ft. rein.-con. slab spans over Horse Fork of Platte River, Clinton Co., to M. Haase, St. Joseph, $10,195; also one 53 ft. and two each 35 and 48 ft. rein.-con. deck girder spans over Missouri Pacific R.R. tracks, Jackson Co., to A. W. Mosley, Kansas City, $17,860. Grand total $45,919. Noted Aug. 25.

Oklahoma—State Hy. Dept., Oklahoma City, **(e.e. means engineers estimate)** to Pioneer Constr. Co., 270 Glover Bldg., Kansas City, Mo., 1 span 66 ft. rein.-con. trestle bridge at Westville, Adair Co., $8,069 e.e. $10,000; to D. E. Miser, Rosedale, 2 span 52 ft. rein.-con. trestle bridge at Antlers, Pushmataka Co. $7,692 e.e. $10,000; to Nims & Frost, Hydro, 2,884 ft. pile trestle bridge at Norman, Cleveland Co., $54,495 e.e. $60,000, and bridge on Federal Aid Project 202-B, Grady Co., $52,236 e.e. $55,000, to J. W. Williams, 1100½ West Main St., Oklahoma City, 1 span 110 ft. steel truss bridge on piers at Coalgate, Coal Co., $34,734 e.e. $35,000; to J. Biggs, Clinton, 1 span 132 ft. steel truss bridge on piers at Walters, Cotton Co., $40,910 e.e. $45,000; to Southwestern Constr. Co., Ardmore, 3 span 102 ft. bridge at Mill Creek, Johnston Co., $11,490 e.e. $15,000; to F. E. Watson, 901 McLish St., Ardmore, 4 span 264 ft. steel truss bridge on piers at Overbrook, Love Co., $33,452 e.e. $40,000; to L. Sanders, 2916½ North Hudson St., Oklahoma City, 1,046 ft. pile trestle bridge at Ringwood, Major Co., $30,379 e.e. $35,000; to Gaines, Yokum & Mackey, 519½ West Main St., Oklahoma City, 1 span 110 ft. steel truss bridge on piers at Morrison, Noble Co., $53,358 e.e. $58,000, 1 span 118 ft. steel truss bridge on piers at Pawnee, Pawnee Co., $23,663 e.e. $25,000, 2 span 146 ft. steel truss bridge on piers at Cleveland, Pawnee Co $53,969 e.e. $55,000, bridges on Federal Aid Project 198, Payne Co., $41,132 e.e. $42,000, 3 span 330 ft. steel truss bridge on concrete piers and rein.-con. trestle approaches at Seminole, Seminole Co., $29,248 e.e. $30,000, also 6 span 118 ft. rein.-con. trestle bridge at Lima, Seminole Co., $20,521 e.e. $25,000. Grand total $495,348. Noted Aug. 25.

Dams

Bids Desired

N. Y., Rye—Oct. 10, by Westchester Co Park Comn., 72 West Pondfield Rd., Bronxville, stone faced rein.-con. dam and sluiceway in Manursing Island Park, here; adv. E. N.-R. Sept. 29.

S. D., Mitchell—Oct. 3, by T. Eastcott, city aud., earth dam, concrete spillway and bridge across Firesteel Valley, 94,508 cu.yd. fill in dam, 568,400 lb. steel and 106,000 ft. timber sheeting, 3,677 sq.yd. concrete paving spillway, 88,249 lb. structural steel beams and 42,052 lb. reinforcing rods. etc.

Railways

Proposed Work

Indiana—Lake Erie & Fort Wayne R.R. Co., D. N. Foster, pres., Ft. Wayne, plans 5,700 ft. railroad extension from present southwesterly terminus connecting with tracks of Wabash Ry. Co., in Allen Co. $25,000.

Ontario—Toronto Transportation Comn., Front and Yonge Sts., Toronto, D. W. Harvey, engr., plans double tracking 3 mi. Scarborough Radial from Toronto to Scarborough Bluffs. $530,000.

Contracts Awarded

New York—New York Central R.R. Co., 466 Lexington Ave., New York City, F. B. Freeman, ch. engr., grading 10 mi. for widening existing lines to 4 tracks, incl. 400,000 cu.yd. dry dock excavation, culverts and underpass from Garrison to Beacon, to Walsh Constr. Co., 403 Herald Bldg., Syracuse.

Minnesota—Cloquet Lumber Co., Cloquet, 36 mi. logging railroad between Cascade, Minn. and Canadian border, to Campbell & Shells, Cloquet, $375,000 cost plus percentage basis.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Ill., Belleville—See "Sewers."

Tex., Brownwood—Brown Co. Water Impvt. Dist. 1 making revised plans 125,000 acre ft. dam, point 9 mi. from here, near intersection Colorado River tributaries Jim Ned Creek and Pecan Bayou, irrigating 25,295 acres land. $250,000.

Tex., Galveston—City, c/o J. M. Murch, aud., soon takes bids intracoastal canal. $74,000 bonds voted for same.

Tex., Garwood—J. Lehrer making plans diverting approximately 60,000 acre ft. water per year from Brazos River, irrigating 3,000 acres land. $60,000. Private plans.

Ont., Ottawa—Dept. Rys. & Canals soon takes bids rein.-con., retaining wall. $150,000. A. T. Phillips, Birks Bldg., Spark St., engr.

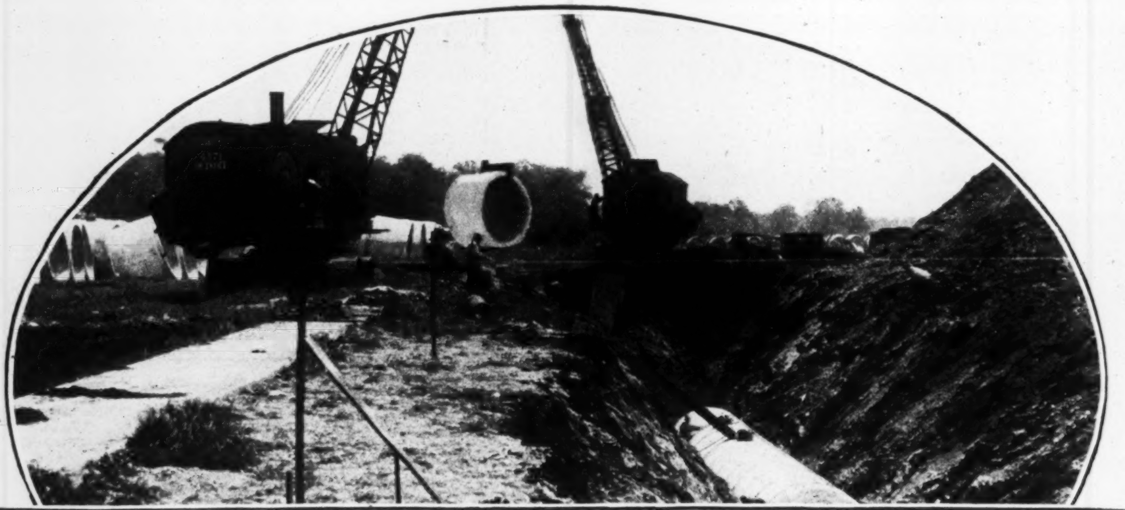
Bids Desired

N. Y., Buffalo—Oct. 4, J. P. Moore, comr. Dept. Parks & Pub. Bldg., City and county Hall, excavation and foundation work for city hall. J. J. Wade, consult. engr. Noted Aug. 5, 1926 under "Buildings—Commercial."

Pa., Phila.—Oct. 5, by Dept. Pub. Wks., Bureau of Engineering, Bridge Div., 401 ft. retaining wall, approximately 20 ft. high for east approach of Green Lane Bridge.

Louisiana—Oct. 18, by State Hy. Comn., Baton Rouge, embankment on Chef Menteur Highway, Federal Aid Project 201-G, St. Tammany Parish. N. W. Bowden, Baton Rouge, ch. engr.; adv. E. N.-R. **Sept. 29**.

Louisiana—Sept. 23, by Bd. State Engineers, 213 New Orleans Court Bldg., New Orleans, 6,400 ft. levee on right bank Red River on Rapides Island, Rapides Parish, for Natchitoches Sub-Dist. of Red River, Atchafalaya & Bayou Boeuf Levee Bd., also 4,322 ft. on Alexandria Front, and



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Excavation, Drainage, Irrigation, Levees, River and Harbor (Continued)

3,435 ft. on Richardson Point, for Red River, Atchafalaya & Bayou Boeuf Levee Dist.

Ill., Rochelle—Oct. 4, by Commissioners Kyte River R. D. 2, at office Gardner & Gardner, attys., Rochelle, 2 tile drainage and 1 open ditch laterals, culverts, etc., incl. 21,000 cu.yd. excav., etc.

Ill., Tinley Park — Oct. 5, by Commissioners D. D. 3, Bremen State Bank, 2.25 mi. trenches for 10,900 ft. 14- to 28-in. tile, etc. E. Reimer, clk.

Ia., Maquoketa—Oct. 4, by Auditor Jackson Co., 15,000 cu.yd. channel excav. T. E. Riley, Maquoketa, co. engr.

Tex., Freeport — Freeport Navigation Dist., Freeport, taking bids and open same in November, diverting Brazos River 7 mi. from present mouth and emptying into Gulf of Mexico point 6½ mi. west of present outlet, incl. removal 5,500,000 yd. drift, etc. $1,500,000. Private plans.

Contracts Awarded

Mass., Boston—Park Dept., excavating and dredging Muddy River and banks for Lagoon, to A. G. Tomasello & Son, 68 Devonshire St., $12,650. Engrs. est. $15,000.

N. Y., North Tarrytown (Ind. br. Tarrytown)—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, dredging in Hudson River, constructing dikes, filling swamp, area east of New York Central R.R. tracks and filling beach at Kingsland Point Park, here, to Metropolitan Contg. Co., 17 State St., New York City, $52,602. Noted Aug. 18.

N. J., Sea Girt—Boro Council, 6 creosoted timber jetties on Ocean front, near Sea Girt Ave., to Woolley & Howland, 99 Atlantic Ave., North Long Beach. Noted Sept. 1.

La., Shreveport—Constructing 2 and 3 row pile dike and mattress work on Red River, to Woods Bros. Constr. Co., 132 South 13th St., Lincoln, Neb., $43,548.

Calif., Los Angeles — Los Angeles Co., 45,000 cu.yd. material placed in levee for protection work along Big Tujunga, to Callahan Constr. Co., California Bldg. at $0.34 per cu.yd., 132,000 sq.ft. wire and rock mattress levee protection, to G. L. Ritchie, 6418½ Hollywood Blvd., $0.29 per ft.

Streets and Roads

Proposed Work

Mass., Newton (Ind. br. Boston)—Plans grading Hawthorn and Laurel Aves., George, Kenmore and Tolman Sts., Charlotte, Winchester, Whittier and Winslow Rds. $45,245 appropriation. Private plans.

N. J., Haddonfield—Camden Co. (Camden), plans extending 3 mi. Haddon Ave., here. $125,000. J. L. Albertson, Camden, engr.

N. J., Harmony (mail Philipsburg)—Warren Co., Belvidere, making plans grading 4 mi. Valley-Harmony Rd. H. Vetter, Belvidere, engr.

Pa., Pittsburgh — Soon takes bids constructing 5,000 ft. Irvine St., 60 ft.; and eliminating grade crossing over Baltimore & Ohio R.R. tracks at 2nd Ave., Hazlewood. $500,000. Bureau of Highways, Dept. Pub. Wks., engrs.

Pa., Pittsburgh—Takes bids in spring extending (by cutting through) North Ave. between Allegheny Ave. and Fayette St. $132,000. Bureau of Highways, Dept. Pub. Wks., engrs.

North Carolina—State Hy. Dept., Raleigh, plans clearing, grading, etc. 3.957 mi. Project 776, Wilkes Co. $26,000, 8.19 mi. Project 561, Montgomery Co. $53,000, and 15.146 mi. project 335, Columbus Co. $75,000; grading and top soiling, etc. 15.062 mi. Project 4380, Harnett Co., $90,000; grading and concrete or asphaltic paving 15.9 mi. Project 286, Wayne Co. $342,000, and 4.91 mi. Project 1051, Beaufort Co. $105,000. L. R. Ames, Raleigh, engr.

Miss., Kosciusko—Attala Co. voted $70,000 bonds, grading, graveling, etc. from Beat One to Choctow Co. line.

La., Bastrop—Making preliminary plans grading, curbing, and hard-surfacing 12 blocks various streets. A. C. Volk, City Hall, engr.

La., Monroe—Takes bids in 1928, grading, curbing and concrete or asphaltic concrete paving various streets.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, rejected bids Sept. 9, paving, etc. 1.229 mi. Sect. "Mingo Junction South" Ohio River Rd., Jefferson Co.; also bridges and culverts on Sects. "K," "L" and "M" Pomeroy-Jackson Rd., Meigs Co. Noted Sept. 22.

Ind., Anderson—Plans concrete paving ¾ mi. 2nd and Sycamore Sts., 30 ft. $30,000. M. H. Downey, city engr.

Ind., Indianapolis—Bd. Wks. plans asphalt and concrete paving Shelby St. $172,000 and $154,000 respectively. P. Brown, City Hall, engr.

Michigan—A. R. Schaefer, resident engr., Newberry, takes bids about Oct. 15, grading 3 mi. Federal Aid Rd. FO55-9, Contr. 1, Menominee Co., for State Hy. Dept., Lansing.

Mich., Birmingham—Making plans macadam paving 3 mi. various streets, 20 ft., $74,000. McGaughan & Ransom, Pontiac Bank Bldg., Pontiac, engrs.

Mich., Detroit—Making plans stone or concrete curbing and 3½ in. sheet asphalt on 8 in. concrete paving 52,600 sq.yd. McBrearty Pl., Revere, Alcoy, Marjorie and Marlowe Sts., Electric, Strasburg and Cristy Aves. $198,470. P. A. Fellows, city engr.

Ill., Chicago—West Chicago Park Comrs., Union Park, J. D. Robertson, pres., plans asphalt on 8 in. concrete paving 83,201 sq.yd. streets in Garfield Park, 58,929 sq.yd. in Douglas Park; and 837,300 sq.yd. Jackson, Washington, Oakley, Sacramento, Homan, Augusta, and Oakley Blvds., Warren, Hamlin and Kedzie Aves. $7,469,548.

Ill., Edwardsville—Madison Co. plans grading, concrete or gravel surfacing, etc. 40 mi. various roads, 18 ft. $1,000,000. W. E. Howden, Court House, engr.

Ill., Tessville (mail Morton Grove)—Made plans rein.-con. paving 2 mi. Devon Ave., 20 ft. $110,000. Baker, Flavin, Sheets & Wallace, 35 East Wacker Dr., Chicago, engrs.

Minn., Duluth—Making plans one course concrete paving, etc. 2,400 ft. East 4th, 38 and 40 ft. $44,822. J. Wilson, City Engrs. Office, engr.

Kan., Osborne—Making preliminary plans improving various streets. To exceed $25,000. C. A. Haskins, 822 Finance Bldg., Kansas City, Mo., engr.

N. D., Minot — Plans paving approximately 8 blocks streets in Dists. 30, 32 and 33. $32,000. W. W. Peterson, city engr.

Mo., Neosho — Rejected bids concrete paving 13,050 sq.yd. High, Coler and Wood Sts., etc. To exceed $25,000. Will re-advertise. Black & Veatch, Mutual Bldg., Kansas City, engrs. Noted Sept. 22.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making plans alternate types paving, etc. Edna Dover, Potomac, Leona, Cornelia and Clarenden Sts., Botanical, Compton, Southwest, Wade, Oleatha, Cook, Evans, Kensington, and West Belle Aves. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Made preliminary plans alternate types paving, etc. Dryden, Floy, Parker, Radom, Steffens, and Newstead Aves., Marcus, Hornsby, Fyler, Oak Hill, Tholozan, Montana, Laurel and St. George Sts. W. W. Horner, 300 City Hall, engr.

Ark., Helena—Soon takes bids grading, curbing and hard surfacing 20 blocks on Rightor, Poplar, Market and Franklin Sts. approximately $65,000. Parmalee, Green & Newman, Helena, engrs.

Ark., Hope — Making preliminary plans grading, curbing and paving 20 blocks, in street paving Dist. 9; also curbing and guttering in Dist. 5. Richardson Ayres, Hope, engr.

Ark., Hot Springs — Soon takes bids grading, paving, etc., Pullman St., Dist. 104; West Grand Ave. Elm, Orange, Olive, Oak, School, Hazel, Woodbine and Parker Sts. in Dist. 106; grading, curbing and guttering, etc. 5 blocks Cedar St., in Dists. 107 and 108; and 4 blocks Magnolia St., etc., in Dist. 110. Smith & Annen, City Hall, engrs.

Ark., Little Rock—J. Matthews, city comr. 121 West 2nd St., soon takes bids grading and 6 in. concrete paving 3 mi. Batesville-Cut-off, 18 ft. Ford & MacCrea, Gazette Bldg., engrs.

Ark., Searcy—Soon takes bids grading, curbing and concrete paving 10 blocks Street Impvt. Dist. 10.

Ark., Wynne—Soon takes bids grading, curbing and concrete paving 46 blocks Street Impvt. Dist. 1.

Tex., Austin—Making plans concrete paving 34 Sections alleys, 20 ft. $40,200. O. E. Metcalfe, city engr.

Tex., Brownsville—Cameron Co. making plans grading, etc. 8 mi. State Highway 96 from Harlingen to Wilbarger Co. line. $80,000. W O. Washington, Brownsville, engr.

Tex., Carrizo Springs—Dimmit Co. making plans grading and bridging 8.9 mi. Highway 55 from Sta. 10-80 east to point ½ mi. Catarina. J. G. Lott, Carrizo Springs, co. engr.

Tex., Colorado—Mitchell Co. making plans grading and bridging 9.5 mi. Highway 1 from Howard Co. line to Westbrook $60,000. G. S. Hiland, Colorado, engr.

Tex., Cuero—Voted $45,000 bonds, paving various streets. Address Mayor.

Tex., Hearne — Making plans and takes bids about Oct. 10, paving various streets. $80,000. H. E. Elrod, 209 Mercantile Bank Bldg., Dallas, engr. Noted Sept. 22.

Tex., Houston—Making plans 2 in. asphalt on 6 in. concrete paving 2,300 ft. Herman Ave., 50 ft. $40,000. J. C. McVea, city engr.

Tex., Laredo—Voted $175,000 bonds, paving various streets. Address City Secretary or F. C. Hines, Laredo, engr.

Tex., Lufkin—Angelina Co., defeated $1,500,000 bonds, paving main unpaved roads. Address R. A. Courtney, Lufkin, co. judge.

Tex., Victoria—Victoria Co. voted $175,000 bonds, hard-surfacing Highway 12. Address P. P. Putney, Victoria, co. judge.

Tex., Waxahachie—Ellis Co. made plans asphaltic macadam on crushed stone surfacing 4.832 mi. Highway 34, 18 ft. $73,790. W. A. Spalding, Waxahachie, co. engr.

Okla., Frederick—Plans grading, curbing and 6 in. concrete paving 8,740 sq.yd. 15th St. $28,761. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Oklahoma City—Plans sheet asphalt paving 6,275 sq.yd. Paseo St. $31,473. B. M. Hart, City Hall, engr.

Colorado—State Hy. Dept., Denver, made surveys and soon takes bids grading and gravel surfacing, etc., 7 mi. highway between Pueblo and Walsenbnrg, Pueblo Co. $120,000. L. D. Blauvelt, Denver, state highway engr. J. D. Bell, Court House, Pueblo, div. engr.

Idaho — State Hy. Comn., Boise, plans oiling Buhl-Filer Sect. Old Oregon Trail, Twin Falls Co. $60,000. J. D. Woods, comr.

Nev., Lovelock—Plans extending waterworks and replacing red wood pipe with approximately 10 in. c.i. pipe. $15,000. King & Malone, Claudines Bldg., Reno, engrs.

Ore., Portland—Takes bids about Nov. 1, improving Terwillinger Blvd. $98,801. O. Lourgard, City Hall, engr.

California—State Hy. Dept., Sacramento, making surveys constructing 3½ mi. road from Del Norte Co. to south boundary Richardson Creek, Humboldt Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Calif., Beverly Hills — Plans asphaltic concrete paving, etc. Benedict Canyon Dr. To exceed $25,000.

Calif., Chico — Making plans grading, curbing, guttering and asphaltic concrete paving, etc. portions Poplar, Cypress and Pine Sts., etc. $25,000 or more. R. H. Witt, city engr.

Calif., Compton — Making plans grading and concrete paving, etc. 118,100 sq.ft. along Long Beach Blvd., Tract 9910 G. Rood city engr.

Calif., Fullerton—City Council soon takes bids grading and paving, etc. various streets in east section city. To exceed $50,000. C. M. Thorpe, city engr.

Calif., Gridley—J. L. Lewis, city clk., rejected bids grading and Warrenite paving, etc., Kentucky and Washington Sts., etc. Noted Sept. 15.

Calif., Monrovia—Plans grading, curbing, guttering, walks and oil macadam paving, etc. Stedman Pl. and White Oak Ave., etc. $25,000 or more.

Calif., Monterey Park — Plans grading and Durite paving, etc. portion Electric Ave., etc. $25,000 or more.

Calif., Monterey Park — Plans curbing, guttering and Durite paving, etc. Mabel and Pomelo Aves., etc. $25,000 or more.

Calif., Oakland — Made plans grading, curbing, guttering walks and 3 in. Warrenite on 4 in. asphalt paving, etc. 104,772 sq.ft. Poplar St. G. N. Randle, city engr.

Calif., Oakland — Alameda Co. made plans, grading, oil macadam paving, etc. 118,000 sq.ft. portion Skyline Blvd. G. A. Posey, Oakland, co. surv.

Calif., Oakland—Alameda Co. plans grading and paving, etc. Lake Chabot Reservoir Scenic Highway. $50,000 funds provided for 1st unit. Total $200,000. G. A. Posey, Oakland, co. surv.

Calif., San Diego — Bd. Supervs. San Diego Co. plans curbing, walks and 4 in. Warrenite surfacing 350,715 sq.ft. and 5 in. concrete paving 22,510 sq.ft. Rolando Unit 4. P. R. Watson, Spreckels Theatre Bldg., supt. work.

Calif., San Luis Obispo—Made plans 2½ in. asphaltic concrete on 6 in. concrete paving, etc. Lower Higuera St. $35,000 or more. L. W. Moore, city engr.

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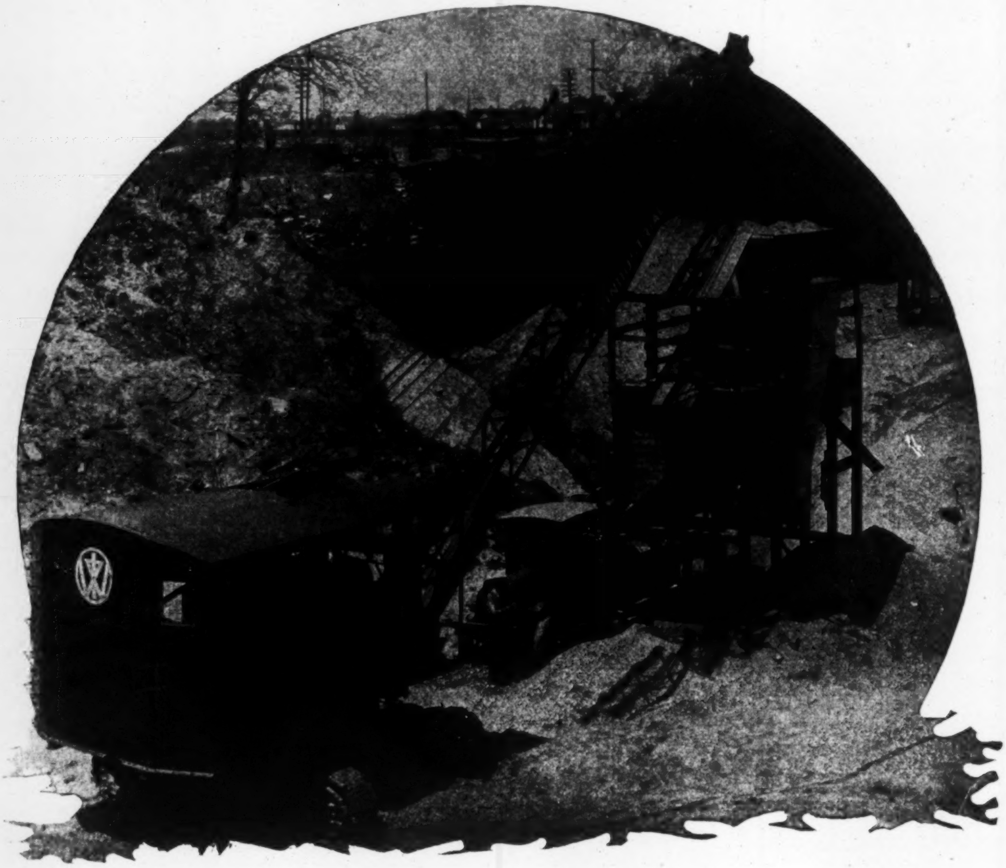

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Whitney Central Bldg.

New York City
50 Church St.

Philadelphia, Pa.
Packard Building

Pittsburgh, Pennsylvania
Federal Reserve Building

San Francisco, Calif.
Monadnock Building

St. Louis, Mo.
Railway Exchange Bldg.

Streets and Roads (Continued)

Calif., San Mateo—Plans grading, 6,380 lin.ft. 4- to 24-in. sewers, and 6 in. concrete paving 70,400 sq.ft various streets in Bayshore Highway Tract.

Calif., Santa Paula—Made plans 126,000 sq.ft. 2 in. 10,000 sq.ft. 3 in., and 1,000 sq.ft. 4 in. asphaltic concrete paving, etc. Oakdale Pl., etc. H. R. Reddick, city engr.

Calif., Signal Hill—Plans asphaltic concrete paving, etc. Willow St. and Obispo Ave., etc. To exceed $25,000.

Calif., South Pasadena (Ind. br. Pasadena)—Plans curbing, guttering, walks and concrete paving, etc. Prospect Ave., etc. $25,000 or more.

Calif., Whittier—Making plans concrete paving, etc. Turnbull and Pickering Aves., etc. To exceed $25,000. M. Bowen, city engr.

Ont., Hamilton—Making plans concrete curbing, guttering and sheet asphalt on concrete paving Archibald and Catharine Sts. Hampton and Albany Aves. $30,000. W. L. McFual, City Hall, engr.

Ont Scarborough — Scarborough Twp. making plans asphalt on concrete paving 5,000 sq.yd. Jeavons Ave. and Queen St.; also grading and concrete sidewalks on Colton Ave. $35,000. C. E. Fraser, Kingston Rd., Toronto, engr.

Ont Toronto — Making plans concrete curbing, guttering, and asphalt or bitulithic on concrete paving ¼ mi. Fleet St. $50,000. R. C. Harris, City Hall, engr.

Ont., Toronto—York Twp. making plans concrete curbing, guttering and bithulithic concrete on concrete paving 1,200 ft. Dufferin St. $27,745. F. B. Goedike, 40 Jarvis St., engr.

Ont., Windsor — Plans asphalt on 8 in. concrete paving 6,000 sq.yd. Tecumseh Rd. $25,000. M. E. Brian, City Hall, engr. Noted Aug. 11.

Bids Desired

Massachusetts — Oct. 4, by Dept. Pub. Wks., Boston, bituminous macadam paving 22,600 ft. highway in Bernardston, Gill and Northfield. W. F. Williams, comr.

Massachusetts — Oct. 11, by Dept. Pub. Wks., Boston, bituminous macadam paving 21,939 ft. in highway Northampton and Williamsburg, 18 ft. W. F. Williams, comr.

Mass., Boston — Oct. 3, by Dept. Pub. Wks., sheet asphalt or bitulithic paving Dundee St., Ward 4; Eliot St., Ward 19; and Ralston St., Ward 7. $25,000. J. H. Sullivan, comr.

N. Y., New York—Oct. 4, by Park Bd., W. T. Herrick, pres. Park Bd., Arsenal Bldg., Central Park, repaving roadway across southerly portion Crotona Park from Claremont Parkway and Fulton Ave. to Crotona Park East and Wilkins Ave.

N. Y., Long Island City—Oct. 5, by M. E. Connolly, pres Queens Boro, Queens Subway Bldg., grading and sheet asphalt on concrete paving 43rd (Kingsland) Ave. and Northern Blvd.; grading, curbing and sidewalks on Queens Blvd., 114th St., etc.

N. Y., New York—Oct. 5, by J. Miller, pres. Manhattan Boro, Municipal Bldg., widening and granite block on concrete paving Avenue C; and granite block repaving 94th St.

N. Y., St. George — Oct. 5, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete repaving Gordon St.; grading and paving Quinlan Ave.; also concrete curbing, and vitr. brick guttering paving Victory Blvd.

New Jersey—Oct. 10, by State Hy. Comn., Trenton, grading and 8 in. graveling 35,576 sq.yd. Route 17 South, Sect. 2, Pedricktown Relocation, Salem Co. A. L. Grover, ch. clk.; adv. E. N.-R. Sept. 29.

Pennsylvania — Oct. 14, by State Hy. Comn., Harrisburg, grading, rein.-con. paving, etc., approximately 17 mi. 7 projects in Armstrong, Crawford, Fayette, Jefferson, McKean, Mifflin, Perry and Indiana Counties. J. L. Stuart, acting secy.; adv. E. N.-R. Sept. 29.

Maryland—Oct. 4, by State Roads Comn., Baltimore, concrete paving 0.06 mi. Contr. M-85 Montgomery Co., 1.2 mi. Contr. AA-48 Anne Arnndel Co., and 0.3 mi. Contr. S-28, Somerset Co.; also concrete shoulders on 3 mi. Contr. AB-6-A, Anne Arunde Co. J. N. Mackall, chn.; adv. E. N.-R. Sept. 29.

W. Va., Elkins—Oct. 6, by City Council, concrete paving, etc. 5,300 sq.yd. 1st and Davis Sts. Project 1, and 1,650 sq.yd. High St. Project 6. G. W. Wilson, mayor.

Fla., Palatka — Oct. 5, by Bd. Putnam Co. Bond Trustees, grading, and double surface treating, etc. 5 mi. Bostwick-Palmetto Rd 2½ mi. East Palatka-St. Johns Co. line Rd., 5 mi. Dave Futchs Corner Rd., and 13 mi. Springside-Clay Co. line Rd.

Miss., Hazelhurst — Oct. 7, by Comrs. Copiah Co., improving 3.288 mi. Federal Aid Project 89-A, 21,897 cu.yd. excav., 20,695 cu.yd. borrow, 13,472 lb. reinforcing, 7,900 cu.yd. gravel, etc. H. C. Dietzer, Jackson, engr.

Louisiana—Oct. 6, by State Hy. Comn., Baton Rouge, shell surfacing 0.89 mi. Vinton-Orange Rd., Federal Aid Project 43D, Calcasieu Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, state engr.

Louisiana—Oct. 11, by State Hy. Dept., Baton Rouge, graveling 7.23 mi. Winn Parish-Atlanta-Montgomery Highway, Winn Parish; and 3.215 mi. Grant Parish-Atlanta-Montgomery Highway, N. W. Bowden, Reymond Bldg., Baton Rouge, engr.

Ohio—Oct. 7, by G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, paving, etc. with **(a)** concrete **(b)** bituminous macadam 0.984 mi. Sect. "E" Reynoldsburg-Baltimore Rd., Franklin Co. **(a)** $29,911 **(b)** $29,886, 3.91 mi. Sect. "D" Jackson-Gallipolis Rd., Jackson Co. **(a)** $145,559 **(b)** $146,936, and 3.181 mi. Sect. "I" Bon-Port Clinton Rd., Ottawa Co. **(a)** $110,500 **(b)** $111,643; also grading, etc. 4.702 mi. Sect. "A" Malaga-Caledonia Rd., $55,818, and 0.369 mi. Sect. "A" Barnesville-Powhatan Rd., $5,221 both Belmont Co., 3.362 mi. Sect. "D" Dennison-National Rd., Harrison $66,428, and 1.08 mi. Sect. "E" McConnelsville-Cambridge Rd., Morgan Co., $27,309.

O., Columbus — Oct. 4, by W. H. Duffy, dir. Service, grading and paving, etc., 8,865 sq.yd. Ellsworth and Wrexham Aves. brick $66,878, asphalt $63,863; and 3,545 sq.yd. alleys north of Chittenden Ave., Wall and Sycamore Sts. brick $14,394, concrete $11,174. R. H. Simpson, city engr.

Ind., Anderson—Oct. 15, by Comrs. Madison Co., concrete or asphaltic concrete paving ¾ mi. Morris Rd. in Elwood, 30 ft. $29,000.

Ind., Marion—Oct. 4, by Comrs. Grant Co., graveling, etc. James H. Dollar Rd., Jefferson Twp. A. J. Green, Marion, aud.

Ind., Valparaiso—Oct. 4, by Comrs. Porter Co., graveling 0.5018 mi. Henry Nagel et al Rd. $7,172, and 1.0057 mi. F. W. Schwinkendorf et al Rd. $15,016. C. A. Blachly, aud.

Michigan — Oct. 5, by E. R. Benkert, resident engr., Port Huron, concrete paving 0.886 mi. State Trunk Line Rd. MO77-6, Contr. 1, 20 ft., St. Clair Co., for State Hy. Dept., Lansing.

Michigan — Oct. 7, by H. C. Fleming, resident engr., Grand Rapids, two course graveling 6.874 mi. State Trunk Line Rd. MO46-6, Contr. 1, Oceana Co., 12 ft., for State Hy. Dept., Lansing.

Michigan — Oct. 17, by E. R. Benkert, resident engr., Port Huron, concrete paving 4.114 mi. State Trunk Line Road MO77-29, Contr. 1, and 2.076 mi. M077-22, Contr. 2, St. Clair Co., 20 and 23 ft., for State Hy. Dept., Lansing.

Michigan—Oct. 20, by A. R. Schaefer, resident engr., Newberry, one course graveling 3.474 mi. Federal Aid Rd. FO49-8, Contr. 1, Mackinac Co., 18 ft., for State Hy. Dept., Lansing.

Michigan—Oct. 20, by A. R. Schaefer, resident engr., Newberry, concrete paving 5.374 mi. Federal Aid Rd. FO49-7, Contr. 1, 20 ft., Mackinac Co., for State Hy. Dept., Lansing.

Michigan — Oct. 24, by E. R. Benkert, resident engr., Port Huron, concrete or bituminous macadam paving 2.982 mi. State Trunk Line Rd. MO32-27, Contr. 1, Huron Co., 20 ft., for State Hy. Dept., Lansing.

Ia., Decorah—Oct. 4, by Auditor Winneshiek Co., surfacing secondary road, 5,920 cu.yd. crushed gravel 1 mi. haul, 82,500 units ½ mi. overhaul, 5,920 cu.yd. crushed limestone, etc. F. W. Arneson, Decorah, co. engr.

Ia., Hampton — Oct. 4, at office Auditor Franklin Co., graveling, etc. 3 mi. Secondary Road Dist. 35 and 3.976 mi. Primary-Secondary Project S-39. M. E. Hickethier, Hampton, co. engr.

Minn., St. Paul—Oct. 3, by G. J. Ries, aud. Ramsey Co., alternate types paving approximately 30,000 sq.yd. State Trunk Highway 52. $75,000. P. N. Coates, Guardian Life Bldg., engr. Noted Aug. 18.

Kan., Dodge City—Oct. 15, by Clerk Ford Co., grading and concrete surfacing, etc. 10,683 sq.yd. Project 85-B. J. W. Thornburgh, Dodge City, co. engr.

Kan., Sedan—Oct. 18, by Clerk Chautauqua Co., concrete paving 5,293 sq.yd. Federal Aid Project 384-A. Kansas Eng. Co., 601 Kansas St., Topeka, engrs.

Mo., Clayton—Comrs. St. Louis Co., Court House, taking bids grading and 7 in. concrete paving 3,050 sq.yd. Edmund Ave., Project 466; and 4,320 sq.yd. Louise Ave., Project 467. R. Jablonsky, Court House, co. engr.

Ark., Paris—Oct. 9, by City Comrs., J. J. Wallace, chn., curbing, bridging, sewers and concrete asphalt or brick paving approximately 60,000 sq.yd. Walnut, Magazine and Elm Sts., Street Impvt. Dist. 1. $185,000.

Ark., Pine Bluff—Oct. 5, by City, grading, curbing, guttering, sewers, 23,705 sq.yd 6 in. plain concrete paving and 5,075 sq.yd rein.-con. paving Laurel, Oak, Elm, Poplar and portions 6th and 3rd Sts., Impvt. Dist 99. G. B. Smith, Natl. Bank Bldg., engr. Noted June 30.

Tex., Houston—See "Contracts Awarded."

Tex., Houston—Oct. 10, by H. L. Washburn, aud. Harris Co., Courthouse, grading, paving, etc., approximately 9.28 mi. Market St. Rd. from San Jacinto River Bridge to Goose Creek, 20 ft. $150,000. Howe & Wise, Courthouse, engr.

Tex., San Antonio—Miller-Darrough Co., 1211 West Mistletoe Ave., taking bids hard paving drives and streets on Vance-Jackson Rd., through 98 acre plot of sub-division, near here. $75,000. Private plans.

California—Oct. 10, at office R. M. Morton, engr. State Hy. Dept., Sacramento, grading and asphaltic concrete paving, etc. approximately 9.3 mi. roadway between Cherry Ave. and San Bernardino, San Bernardino Co.

Calif., Antioch — City Clerk taking bids grading and 5 in. concrete paving 95,000 sq.ft. 3rd, 8th and 10th Sts., etc. R. Naas, city engr.

Calif., Compton — M. Hecock, city clk., taking bids grading and concrete paving, etc., 118,150 sq.ft. Long Beach Blvd. (Tract 9910). G. Rood, city engr.

Calif., Fullerton—F. C. Hezmalhalch, city clk, taking bids curbing, guttering and Topeka on asphaltic concrete paving North Harvard Ave., etc. To exceed $25,000. Former bids rejected.

Calif., Glendale—A. J. Van Wie, city clk., taking bids curbing, guttering, concrete and asphaltic concrete paving, etc. portions 5th St., Park and Glendale Aves., etc. To exceed $25,000. J. F. Johannsen, city engr.

Contracts Awarded

Maine—State Hy. Comn., Augusta, graveling 2.94 mi. highway in Anson, to R. M. Davis, Oldtown, $31,602, and 0.85 mi. in Gouldsboro, to M. Rogers, Bangor, $18,341, also bituminous macadam paving 2.71 mi. highway in Mechanics Falls and Poland, to A. D. Bridges & Son, Hazardville, Conn., $68,025. Grand total $117,968. Noted Aug. 11.

New Hampshire—State Hy. Dept., Concord, 6 in. rein.-con. on 8 in. gravel surfacing 13,291 sq.yd. Daniel Webster Highway in Bedford, to A. D. Bridges & Sons, Inc., Hazardville, Conn., $42,538. Engrs. est. $60,000. Noted Sept. 22.

Massachusetts—State Hy. Dept., Boston, bituminous concrete paving 26,596 ft. highway in Plymouth, 18 ft., to A. D. Bridges Sons, Inc., Hazardville, Conn., $127,247.

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 2,582 ft. highway in Beverly, to O. Menici, 27 Matinack St., Peabody $24,994; 6,574 ft. in Buckland, to Kelleher Corp., Turners Falls $82,485, and 2,100 ft. in Clarksburg, to B. Perini & Son, Inc., Ashland $19,836; also bituminous surface treatment on gravel surfacing 2,300 ft. in Spencer, to J. J. McHugh, Leicester, $14,560. Grand total $141,875. Noted Sept. 8.

Mass., Boston — Sheet asphalt or bitulithic paving Commonwealth Ave. and North Dr., to J. McCourt Co., 910 Huntington Ave., $17,675. Engrs. est. $25,000. Noted Sept. 8.

Mass., Boston—Sheet asphalt paving in East Bway., Ward 6, to M. DeMatteo, 14 Rowe Pl., Roslindale, $53,842.

R. I., Providence—Paving Union St. and Chalkstone Ave., etc., to C. W. Blakeslee & Son, 58 Waverly St., New Haven Conn., $22,525. Engrs. est. $25,000.

Conn., New Haven — Asphalt on concrete paving, Grove St. from High St. to Bway., and Grove St. from State to High Sts., to C. W. Blakeslee & Sons, 58 Waverly St., $46,250. Engrs. est. $25,000 or more.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, to A. M. Hazell, Inc., 26 Court St., New York City, grading Avenue U $19,513; to Grimm Contg. Co., 170 McKinley St., sidewalks on Powell St. $1,787, and to Castle Bros., Johnson Pl., Dreamland Parking Area $12,607; to Colgan Contg. Co., 90 William St., New York City, granite block paving Atlantic Ave. $70,170; to B. Turecamo Contg. Co., 8706 Bay 12th St., grading and sheet asphalt paving Benson Ave. $15,265, to M. J. O'Hara, 1228 Park Ave., New York City, Canal Ave. $13,559, Gravesend Ave. $153,970, and 6th Ave. $18,816, to D. J. McCoy Asphalt Co., Avenue U and East 57th St., East 5th St. $14,710, East 40th St. $7,219, Flatlands Ave. $19,266, and West 12th St. $8,475, to Highway Impvt. & Repair. Co., Furmans Island, Clarkson Ave. $11,700,

Streets and Roads (Continued)

East 42nd St. $10,044, North 15th St. $17,382, Lefferts Ave. $31,814, and Bulwer Pl. $13,580, to Uvalde Asphalt Paving Co., 1 Bway., New York City, East 98th St. $9,963, Junius St. $11,037, Utica Ave. $61,388, East 38th St. $11,242, and East 94th St. $73,620, to Cranford Co., 52 9th St., Gravesend Ave. $151,594, Avenue O $4,469, 17th Ave. $9,670, 45th St. $13,648, 51st St. $11,352, 62nd St. $8,817, 64th St. $11,961 and Benson Ave. $27,042, to Sicilian Asphalt Paving Co., 41 Park Row, New York City, Meserole St. $4,996, various streets $30,450, and Washington Ave. $3,243, to Cleveland Trinidad Paving Co., Flushing, Rutland Rd. $5,275, to Brooklyn Alcatraz Asphalt Paving Co., 407 Hamilton Ave., Narrows Ave. $17,124, Avenue S $28,134, East 9th St. $3,325, Glenwood Rd. $51,914, Avenue M $20,578, 14th Ave. $28,019, Hinckley Pl. $7,915 and 21st Ave. $10,473. Grand total $1,057,126. Noted Sept. 1.

New Jersey—State Hy. Comn., Trenton, grading and 8 in. double line rein.-con. paving 11,156 sq.yd. Route 18 (South) Malaga relocation and grade crossing elimination, Gloucester Co., to Burket Constr. Co., Vineland, $60,190. Noted Sept. 1.

New Jersey—State Hy. Comn., Trenton, grading and rein.-con. paving 1.5 mi. Route 14, Mays Landing, Atlantic Co., to Mazzola & Marano, Inc., 739 South 7th St., Phila., Pa., $227,678. Noted Aug. 25.

N. J., Hackensack—Bd. Freeholders Bergen Co. Court House, asphalt on concrete paving Riverdale Rd., to G. C. Bennett, Railroad Ave., Park Ridge, $49,919; also Prospect St. and West Allendale Ave., to Harper Bros., 322 Essex St., $34,912.

N. J., Plainfield—Grading Watchung Ave. from Charlotte Rd. to Fernwood Ave., to Villa Bros., North Washington St., Westfield, $8,940. Noted Aug. 18.

N. J., West Collingswood—Haddon Twp. Com., asphaltic macadam paving 1 mi. various streets in Haddon, Leigh and West Collingswood extension, to E. R. Moorehouse, 1301 Park Blvd., Camden, $42,721.

Pa., Phila.—Dept. Pub. Wks., Bureau Highways, to A. Scull, 2313 Walnut St., grading Montgomery St. $1,208, to Wilson-Martin Inc., 1501 North 2nd St., Pickwick St. $779, improving Ditman and Filter (country) Rds. $7,464, Dorcas, Dungan and Montour Rds. $8,385, and Kerper Rd. $1,746; to McCarrick Bros., 3240 Fox St., grading Pike St. $3,456, and to T. P. Lee, 5629 Cherry St. Woodbine St. $13,898; to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., asphalt paving (assessment work), Aramingo St. $18,468, Champlost St. $7,178, Courtland St. $4,825, and Crispin St. $14,961, to Barber Asphalt Co., 239 North 30th St., Bambrey St. $3,456, Cora and 2nd Sts. $8,986, Island Ave. $33,940, Jackson St. $7,978, Rorer St. $3,895, 15th St. $6,683, 33rd St. $7,629 and Jackson St. $12,593, to Eastern Asphalt Co., Penna. Bldg., Ditman St., $9,414, Midvale St. $68,291 and Sanger St. $14,888; to Union Paving Co., 123 South 21st St., asphalt repaving Chestnut St. $127,662; to J. Salvucci, 512 North 65th St. improving Bean and Eva (country) Rds. $16,132, to Curtis Bros., State and Unruh Rds., Maple Rd. $8,202; also to McHugh & Lucas, Peoples Bank Bldg., repairing Front Street Bridge over Pennsylvania R.R. tracks $4,105. Grand total $416,222.

Pa., Pittsburgh — Grading, curbing and paving Macon Ave., Watson Blvd., Standish and Kirkpatrick Sts., etc., to M. O'Herron Co., South McKean St. $74,245. Engrs. est. $75,000.

Pa., Pittsburgh—Constructing trails and walks in new Frick Woods Park, to J. Ferrone, c/o Union Trust Co., Union Trust Bldg., $27,090. Engrs. est. $30,000.

Pa., Pittsburgh—Allegheny Co., general contract paving roadway on Liberty Bridge, to Dunn & Ryan, 3918 Swineburn Ave., $139,063. Engrs. est. $150,000.

Delaware—State Hy. Dept., Dover, grading and concrete paving, etc. 8,486 sq.yd. road from Stanton to Lincoln Highway, to D. E. O'Connell & Son, Ridley Park, Pa., $35,149, and 29,430 sq.yd. Philadelphia Pike, to George & Lynch, Dover, Del., $185,490, both in New Castle Co.; also 33,943 sq.yd. Little Creek Lipsic Rd., Kent Co., to E. R. Mixier Co., Goshen, N. J., $115,029. Grand total $335,668.

Maryland—State Roads Comn., Baltimore, concrete paving 1 mi. Contr. AA-53, Anne Arundel Co., to F. M. Duvall, St. Margarets $23,378, 1.6 mi. Contr. H-56, Harford Co., to Sutton Contg. Co., Jefferson Bldg., Phila., Pa. $33,397, 2 mi. Contr. M-80, Montgomery Co., to M. J. Grove Lime Co., Lime Kiln $45,403, and 1.5 mi. Contr. G-30-A, Garrett Co., to Tri State Eng. Co., Cumberland $46,468; amiesite and Kentucky rock asphalt paving 0.54 mi. Contr. A-47, and concrete shoulders on Contr. 48-B, both Allegany Co., to S. T. Brotemarkle, Cumberland, $24,229 and $22,305 respectively. Grand total $195,180.

Maryland — State Roads Comn., Baltimore, amiesite paving 0.91 mi. Contr. S-4-A, Somerset Co., to Hannemann-Burroughs Co., Salisbury, $12,798; and graveling 2 mi. Contr. SM-40, St. Marys Co., to Jarboe & Haughton, Mechanicsville, $15,273. Noted Sept. 15.

Md., Baltimore—Bd. Awards, sheet asphalt paving 10,820 sq.yd. streets listed in Contr. 431, to P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R., $53,363; grading 31,500 cu.yd. Contr. 432, to T. Mullan, 3949 Greenmount Ave., $13,828; and concrete paving 6,780 sq.yd. Contr. 433, to J. A. Lavezza, 911 Eastern Ave., $13,186; Grand total $80,377. Noted Sept. 15.

Md., Baltimore—Bd. Awards, sheet asphalt paving 10,300 sq. yd. streets listed Contr. 420, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $50,148.

Md., Baltimore—Bd. Awards, sheet asphalt paving 17,190 sq.yd. Contr. 429, to Amer. Paving & Contg. Co., Montebello Ave., $66,179; concrete paving 7,440 sq.yd. Contr. 430, to Arundel Contg. Co., Knickerbocker Bldg., $16,055. Noted Sept. 1.

West Virginia—Concrete surfacing 5 mi. Gossaway-Frametown Rd. Projects 3110 and 3157, Braxton Co., to O. B. Bracht, Titusville, Pa., $221,412. Noted Sept. 8.

W. Va., Wheeling—For 8 in. rein.-con. paving portion 29th St. and Elmgrove Blvd., to H. L. Seabright Co., 70 43rd St., $94,312.

North Carolina—State Hy. Comn., Raleigh, grading and top soiling, etc. 7.96 mi. Project 531, Guilford Co., to N. L. Teer, Durham $50,643, and 5.31 mi. Project 636, Gaston Co., to C. B. Hester, Greensboro $36,381; clearing, grubbing and grading, etc. 8.49 mi. Project 869, Polk Co., to W. H. Anderson Constr. Co., Ashville, $93,367; grading and plain concrete paving 7.12 mi. Project 2160, Craven Co. and 8.95 mi. Project 2701, Sampson Co., to F. J. McGuire, Bankers Trust Bldg., Norfolk, Va., $141,670 and $162,983 respectively; grading and sand asphalt paving 8.68 mi. Project 1770, Perquimans Co., also grading and plain concrete paving 5.87 mi. Project 6760, Rowan Co., to Highway Eng. & Constr. Co., Selbyville, Del., $139,807 and $134,211 respectively; one course gravel surfacing 8.3 mi. Project 1312, and 9.38 mi. Project 1311, Gates Co., to Gregory & Weisiger, Pittsboro, $44,460 and $51,364 respectively, also 8.1 mi. Project 1310, Gates Co., to Stoney Creek Sand & Gravel Co., Elizabeth City, $38,479. Grand total $893,365. Noted Aug. 11.

Fla., Daytona Beach—W. A. Richards, city mgr., Warrenite bitulithic on rolled coquina rock paving 2nd Ave., Main and 5th Sts. to Southern Paving & Constr. Co., Leesburg, $259,371.

Tennessee—State Dept. Highway & Pub. Wks., Nashville **(F.A.P. means Federal Aid Project and S.A.P. State Aid Project)**, grading, etc. 1.87 mi. State Highway 1, S.A.P. 2-C, Benton and Humphreys Counties, and 2.956 mi. Crump-Savannah Rd., S.A.P. 311-D, Hardin Co., to Gifford-Hill, Inc., Dallas, Tex. $72,186 and $121,251 respectively, 10.858 mi. F.A.P. 213-A and B, Weakley and Obion Counties, to Brady Bros., Hagler & McDade, Fulton, Ky. $75,110, 1.469 mi. Harrogate-Cumberland Gap Rd., S.A.P. 319-C, and 0.81 mi. Powell River Bridge Rd., S.A.P. 319-B, both Claibourne Co., also concrete girder bridge and approaches over Bull Creek, S.A.P. 355-A, Union Co., to Rivinac Constr. Co., Del Rio, $47,257, 12.41 mi. Lauderdale Co. line-Brownsville Rd. incl. bridge over 20 ft. span S.A.P. 558-A, Haywood Co., to Cresap Bros., Humboldt $71,590, 15.763 mi. Huntsville-Pioneer Rd., incl. 5 bridges over 20 ft. span S.A.P. 359-A and B, Scott and Campbell Counties, J. A. Kreis Son, 307 Burwell Bldg., Knoxville, $297,738, 11.597 mi. Tiptonville-Dyer Co. Line Rd., S.A.P. 360-A and C, Lake and Obion Counties, to S. R. Hall, Newbern $57,672, 10.689 mi. Tiptonville-Kentucky State Line Rd., S.A.P. 360-B, Lake Co., incl. 3 creosoted timber bridges over 20 ft. span, and concrete paving 18.386 mi. Memphis-Kentucky State Line Rd., F.A.P. 36-B, C and D, Shelby Co., to Lawrence Constr. Co., Jackson, Miss., $38,866 and $192,160 respectively; grading, etc. 14.733 mi. Kenton-Union City Rd., S.A.P. 364-A and C, Obion Co., to G. W. Turner & Co., 280 Ayers Ave., Memphis, using concrete pipe $95,533, and Sect. B same road, to Thompson & Moseley, 602 Tampa St., Tampa, Fla., $34,468; grading, concrete paving, etc. 1.969 mi. Jackson Rd., F.A.P. 29-D, Madison Co., and asphaltic concrete on concrete surfacing 10.005 mi. State Highway 3, Obion Co., to Hays Constr. Co., Jackson, Miss., $66,914 and $227,779 respectively; concrete surfacing 5.16 mi. Bluff City-Carter Co. line Rd., S.A.P. 309-A, Sullivan Co., to Ziegler Bros., Greensboro, N. C., $123,114; grading and waterbound macadam surfacing 8.492 mi. Springfield-Kentucky State Line Rd., S.A.P. 363-A, Robertson Co., to E. L. Traughber, Adairville, Ky., $51,143. Grand total $572,781. Noted Aug. 4 and 25.

Kentucky—State Hy. Dept., Frankfort **(F.A.P. means Federal Aid Project, and S.A.P. State Aid Project)**, bank gravel surfacing 7.436 mi. Mayfield-Fulton Rd., F.A.P. 146-A, Graves Co., and 4.827 mi. same road, Sects. B and C, Fulton and Hickman Counties, to N. E. Stone & Co., Madisonville, $23,929 and $26,514 respectively; bituminous macadam surfacing 5.364 mi. Cynthiana-Brooksville Rd., S.A.P. 58½-A, Harrison Co., to O'Hare & Sabel, Newton, $113,873; traffic bound macadam surfacing 5.5 mi. Jamestown-Russell Rd., S.A.P. 23-C, and creek gravel surfacing 7.876 mi. Russell Springs-Liberty Rd., S.A.P. 23-D, both Russell Co., to Bernard Antle Co., Jamestown $36,709 and $50,5[illegible] respectively; traffic bound macadam surfacing using shipped stone 6.064 mi. Mayslick-Wedonia Rd., S.A.P. 173-A, Mason Co., to Gay-Coleman Constr. Co., Ashland, $57,963; grading, etc. 8.75 mi. New Castle-Frankfort Rd., S.A.P. 64½-A, Henry and Shelby Counties, to H. S. Tye & Son, Bedford $64,416, 9.798 mi. Clinton-Mayfield Rd., S.A.P. 7-D, Hickman Co., to N. Davis, Sikeston, Mo. $48,152, 9.573 mi. Columbus-Clinton Rd., S.A.P. 7-E, Hickman Co., to L. E. Carter & Co., La Center $96,458, 10.473 mi. Inez-Kermit Rd., S.A.P. 34-B, Martin Co., to Hart & Blair, Whitesburg, using stone masonry $175,200, 8.927 mi. Tompkinsville-Scottsville Rd., S.A.P. 37-B, Monroe Co., to Alexander Bros., Cadiz, using 1st class pipe $88,803, 3.536 mi. Louisville-Bedford Rd., S.A.P. 13-A, Oldham Co., to F. G. Breslin, 32nd and Market Sts., Louisville, using concrete masonry, $25,998. Grand total $808,515. Noted July 28.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, 3 in. brick paving etc. 2.827 mi. Sect. "Wilmot" and "E-F" Narvarre-Berlin Rd., and 2½ in. brick paving, etc. 2.585 mi. Sect. "A" Canton-Louisville Rd., both Stark Co., to E. O. Vogt Paving Co., Massillon, $165,375 and $102,044 respectively; 3 in. brick paving, etc. 0.957 mi. Sect. "U-3," Ohio River Rd., Scioto Co., to Kelly Bros. Constr. Co., Portsmouth, $48,543; concrete paving 4.509 mi. Sect. "Rogers East" and "C" Lisbon-East Palestine Rd., Columbiana Co., to Allison-Harris Constr. Co., East Liverpool $176,636, 1.143 mi. Sect. "K-2" Toledo-Angola Rd., to R. L. Harris, Hicksville, $37,118, and 1.706 mi. Sect. "P" Toledo-Angola Rd., to Radebaugh & Graham Co., 17 South High St., Columbus, $48,983, both in Fulton Co. 3.811 mi. Sects. "Ft. Recovery," "A-I" and "F" Ft. Recovery-Minster Rd., Mercer Co., to E. and G. Alexander, North Star $113,811, 2.276 mi. Sect. "H" Mt. Vernon-McGilead Rd., Morrow Co., to Kenton Constr. Co., Kenton $73,637, 6.18 mi. Sects. "M-2" and "N" Zanesville-Caldwell Rd., Muskingum Co., to Dunzweiler Constr. Co., Zanesville $173,914, 3.236 mi. Sects. "X-1" and "X-2" Cleveland-East Liverpool Rd., Portage Co., to Hill & Hill Co., Elyria $90,683, and 0.852 mi. Sect. "L-I" Ohio River Rd., Washington Co., to Davis & Davenport Constr. Co., Spencerville $32,710; also brick paving 2.673 mi. Sect. "Wadsworth South" and "I" Cleveland-Rittman Rd., Medina Co., to Holmes Constr. Co., Wooster, $100,569. Grand total $1,164,023. Noted Sept. 1.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, concrete paving, etc. 1.704 mi. Sect. "B-1" Mingo-Smithfield Rd., Jefferson Co., to E. A. Hatcher, Mingo Junction, $74,208. Noted Sept. 1.

O., Canton—Grading, curbing, guttering and 3 in. brick paving 1¼ mi. 25th St. N.W., to General Asphalt Paving Co., Hitten Bldg., $146,891 engrs. est. $204,097; also asphalt paving 3 mi. 14th St. N.W., to Bend Constr. Co., 1043 Spring Ave. N.E. $27,682 engrs. est. $25,000.

O., Cleveland—Cuyahoga Co., penetration macadam paving 4,300 sq.yd. Lake Shore Blvd. 6, to F. B. Stein, Babbitt Rd., Euclid, $90,550.

O., Cleveland—Bd. Comrs. Cuyahoga Co., curbing and lake asphalt paving, etc. South Woodland Rd., Sect. "A," to Freshwater Constr. Co., Davis & Farley Bldg., $242,818; and Sect. "B," to Bentley Bros., Hanna Bldg., $217,498.

Ind., Vincennes—Comrs. Knox Co., concrete paving A. W. Shake Rd., to Wright & Blackwood, Edwardsport, $16,709; T. W. Osborn Rd., to Hall & Kablo, Oaktown, $3,391; Hobson Rd., to E. H. Byers, Monroe City, $7,497 and L. H. Bond Rd., to Sotshaw

Streets and Roads (Continued)

& Beard, Oaktown, $11,889. Grand total $39,486.

Michigan—State Hy Dept., Lansing, Asphalt paving 2.9 mi. State Trunk Line Rd. MO28-17, Contr. 1, Grand Traverse Co., 18 ft. to State Constr. Division, Lansing, A. L. Bunridge, supt., Cadillac, $71,451.

Michigan—C. L. Cowgill, resident engr., Plymouth, grading 0.359 mi. Federal Aid Road F082-3 Contr. 4, 40 ft., Wayne Co., to White Constr. Co., 1548 Buhl Bldg., Detroit, for State Hy. Dept., Lansing. $50,305.

Michigan—C. L. Cowgill, resident engr., Plymouth, concrete paving 0.99 mi. Federal Aid Rd. FO50-16, Contr. 2, Macomb Co., 20 ft., to T. E. Currie, 909 Transportation Bldg., Detroit, for State Hy. Dept., Lansing. $53,863.

Michigan—H. C. Fleming, resident engr., Grand Rapids, concrete paving 6.219 mi. Federal Aid Road FO54-7, Contr. 1, Mecosta Co., 20 ft., to J. R. Edelman Co., Muskegon, for State Hy. Dept., Lansing. $179,720. Noted Sept. 8.

Michigan—H. C. Fleming, resident engr., Grand Rapids, concrete paving 5.022 mi. Federal Aid Road FO41-10, Contr. 3, Kent Co., 20 ft., to H. C. Nelson, Muskegon, for State Hy. Dept., Lansing. $127,866. Noted Sept. 8.

Michigan — H. G. Oaks, resident engr., Cadillac, concrete paving 1.288 mi. State Trunk Line Rd. M051-5, Contr. 1, 20 ft., Manistee Co., to A. E. Green, South Haven, for State Hy. Dept., Lansing. $35,219.

Michigan—G. D. Tramp, resident engr., Crystal Falls, F. A. Bridge 1 of 66-6-2, one 75 ft. span, Ontonogan Co., for State Hy. Dept., Lansing, Contr. 1, to Worden Allen Co., Pt. Washington Rd., Milwaukee, Wis., $5,122; and Contr. 2, to Anderson & Bergstrom, Marquette, $24,611. Noted Sept. 1.

Michigan—Wayne Co. (Detroit) and Macomb Co. (Mt. Clemens) grading and one course 8 in. concrete paving etc. 54,406 sq.yd. Eight Mile Rd., to W. S. Tatti, 1337 Three Mile Dr., Detroit, at $1.59 per sq.yd., total $135.894.

Mich., Berkley—One course 8 in. concrete paving approximately 40,000 sq.yd. Oakwood Blvd., to Bishop & Weir, 955 East Jefferson Ave., Detroit, $88,590.

Mich., Detroit—Stone curbing and 3½ in. sheet asphalt on 8 in. concrete paving 5 avenues, to Cooke Asphalt Paving Co., Penobscot Bldg., $117,721; Pitt St. and 10 avenues, to Detroit Asphalt Paving Co., 909 Transportation Bldg., $137,051; Yellowstone Ave., to Cleveland Trinidad Paving Co., 402 Hammond Bldg., $6,337; Dexter and Fleming Aves., to M. R. Hanna Co., Ryan St. and Nevada Ave., $20,738; and Canfield Ave., to Lenanne & McIlvenna, 7777 West Chicago St., $5,449. Grand total $287,296.

Mich., Muskegon Heights—City Clerk, 6 in. concrete paving 7,000 sq.yd. 7th St., to O. P. Carpenter Co., 800 Sanford St., $20,857. Engrs. est. $21,000; grading and 3,700 sq.yd. 9-7-9 in. and 500 ft. 7 in. concrete paving 6th, Holbrook and Commerce Sts., to J. R. Edelman Co., 498 6th St., $5,396. Engrs. est. $13,500.

Mich., Northville—Concrete curbing, one course 8 in. concrete paving 2,825 sq.yd. and 2½ in. sheet asphalt on 6 in. concrete paving 23,350 sq.yd. various streets, to Cook Asphalt Paving Co., 1260 Penobscot Bldg., Detroit, $89,000.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, gravel surfacing Federal Aid Project 1-A, La Salle Co., to Duncan Constr. Co., Ottawa, $7,994, Route 95, Sect. 119-G, McDonough Co., to H. C. Holmes, Macomb, $7,019, and Route 12, Sect. 1-V-1, Lawrence Co., to J. P. Lyon, Robinson, $17,729; grading Route 182, Sect. 101-A, Marion Co., to King & Sheahan, Dudley, $37,833; paving Route 2, Sect. 73-V-1, Lee Co., to H. Zolper & Sons, Mendota, $11,375, Route 13, Sect. 17, Perry Co., to Hamilton-Hoffman Constr. Co., Carbondale, $36,027, Route 30, Sect. 1-X, Peoria Co., to Hartmann-Clark Bros. Co., Peoria, $27,273, Route 51, Sect. 103, Cook Co., to Powers-Thompson Constr. Co., Joliet, $167,500, and Route 78, Sect. 133-W, Fulton Co., to F. F. Wier Constr. Co., Moline, $15,438. Grand total $328,188. Noted July 14.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, grading, curbing, guttering and 8 in. concrete paving portion alley, to Paramount Constr. Co., 107 North Clark St.; grading, curbing, guttering and asphalt on 6 in. concrete paving portions Berwyn, Maplewood, Wabansia, North California and South Menard Aves., to Barber Constr. Co., 5001 Elston St., portions North Richmond and North Mozart Sts., Glenlake, Glenville, Rosemont, Bloomingdale, Jarvis, Pratt, Race and Dickens Aves., to White Paving Co., 1735 Fullerton St., portions East 104th St., Eggleston and Normal Aves., also grading, curbing, guttering and 2 in. asphaltic concrete on 8 in. concrete paving portions West 103rd St., to Amer. Asphalt Paving Co., 133 West Washington St.; grading, curbing, guttering and 10 in. concrete paving, etc. portion Devon Ave., to P. O'Brien, North Cicero Ave., portions Lowell and Cuyler Aves., to J. A. Ross & Co., 4561 Armitage St., portions Hollywood, Keystone, North Karlov and North Kedvale Aves., to Home Paving Co., 130 North Wells St., portions East 96th Pl., East 96th and 97th Sts., Dobson, Greenwood, University, Woodlawn and Chauncey Aves., to Chicago Constr. Co., 6222 Cottage Grove Ave., portions West 68th St., South Comensky, Karlov, Kedvale, South Keeler, Tripp, Kildare, Kolin, Kostner, Kenneth, Kilburn and Kolmer Aves., to Ready & Callahan Coal Co., 133 West Washington St., portions Eggleston Ave. and West 115th St. also grading, curbing, guttering and 2 in. asphaltic concrete on concrete paving portion West 107th St., to R. F. Conway & Co., 844 Rush St.; grading, curbing, guttering and 8 in. concrete paving portions West 116th Pl., West 118th St., South Irving and North Marmora Aves., to Central Paving Co., 179 West Washington St., portion North Eagle Ave., to Home Paving Co., 130 North Wells St., portions Fletcher St. and North Karlov Ave., to J. A. Ross & Co., 4561 Armitage St., portions East 85th Pl., East 86th St., East End and Kreiger Aves., to Calumet Coal Co., 9022 Commercial Ave.; grading, curbing, guttering and 10 in. concrete and 2 in. granite block on 8 in. concrete paving portions Yale, Ellleston, Normal, Parnell, Lowem, South Union and Emerald Aves., to Farr Bros., 356 West 111th St.

Ill., Chicago — Bd. Local Impvts., City Hall, 6 to 24 ft. concrete sidewalks on portions West 57th Pl., Arthington, West Congress, East 44th, 45th Laflin, West 19th, 22nd, 26th, 31st, East 28th, North Wood, Taylor, Mohawk and Bernard Sts., South Albany, Blue Island, Clifton Park, Calumet, Chappel, Dauphin, Foster, South Francisco, Indiana, Kenwood, South Kolin, Oakland Creek, Sacramento, South Chicago, South Trumbull, Turner, North Cicero, Greenleaf, South Park, Wellington, Bryn Mawr and North St. Louis Aves., to G. Kehl Sons, 1225 North Maplewood Ave., portions East 33rd, 43rd, 44th, 47th, West 70th and South State Sts., Buffalo, Evans, Ellis, Indiana, St. Lawrence South Wabash, Stewart and Vincennes Aves., to Superior Concrete Constr. Co., 1109 East 52nd St., portions Cortland and West Harrison Sts., North Central and South Karlov Aves., to M. Schuh, 4625 Dickens Ave., portions East 111th St., East 111th Pl., Watt and Forestville Aves., to H. Johnson & Co., 430 West 111th St., portions East 35th, West 97th, 98th, 99th and South Leavitt Sts., South Irving, Oakley, Claremont and Paxon Aves., to Biesen & Barclay, portions West 51st, West Van Buren, West Congress, North Paulina, and North Clark Sts., Gladys, South Spaulding, Turner, Fullerton, North Keeler, Kenmore, Granville, Glenlake, Peterson, Ridge, North Hermitage and Ravenwood Aves., to J. J. Croake Co., 2927 Fullerton Ave., portions West 65th Pl., Bway., East 26th, West 68th, South Morgan, South Carpenter, Aberdeen, and South May Sts., Pryor, West Van Buren, North Lavergne, North Ridgeway, South Kedzie, Ashland, Halsted, Campbell, Racine, and Hamlin Aves., to Aldrich Constr. Co., 140 South Dearborn St., portions Michael Court, Morse and Farwell Aves., Morton, Primgree and Ellwood Sts., to P. Lutsch, 1902 Farragut Ave., portions West 63rd, 64th and 65th Sts., North Crawford, South Irving, South Oakley, South Claremont and South Western Sts., to Apex Constr. Co., 5240 West Chicago Ave., portions Henderson St., Barry and Foster Aves., to C. Schroeder & Son Co., 3440 Jansen Ave., portions West 13th St. and North Koster Ave., to Simpson Constr. Co., 1113 South Hermitage Ave., portions Hurlburt St. and Overhill Ave., to O. E. Brooks & Son, 6238 N. W. Highway.

Wisconsin—State Hy. Comn., at Div. Office 2, Stephenson Bldg., Milwaukee, grading concrete paving, etc. 6,130 sq.yd. Federal Aid Project 349-G, Milwaukee Co., to J. C. Bluham Co., 1299 Achilles Pl., Milwaukee $24,675; and 12,269 sq.yd. Federal Aid Project 268-B, Waukesha Co., to Milwaukee General Constr. Co., 857 8th Ave., Milwaukee $99,032. Noted Aug. 11.

Wisconsin—State Hy. Comn., Div. Office 2, Stephenson Bldg., Milwaukee (**F.A.P. means Federal Aid Project**), graveling, etc. 7,695 cu.yd. F.A.P. 371-B, Price Co., to A. E. Tilseth, Menomonie $46,012, and 2.865 mi. F.A.P. 448-A, and concrete paving, etc. 3.45 mi. F.A.P. 44, Juneau Co., to Kramp Constr. Co., Berlin, $45,577 and $99,042 respectively. Grand total $190,631. Noted Aug. 25.

Wis., Milwaukee—Grading, paving, etc. 8th Ave. and 1 alley, to Schwerm Bros., 50 Meinecke St., $46,598 and $5,458 respectively; 30th Ave., to Czerwinski Constr. Co. 816 Clinton St., $1,843; 38th Ave., to Gumz & Switalski, 831 13th Ave., $10,134; 38th St., to J. C. Bluhm Son, 1299 Achilles Pl., $8,013; 1 alley between 14th and 15th Sts., to Schramkowski & Son Co., 918 Dousmann St., $1,764; and 2 alleys, to Blech Constr. Co., 2123 Vliet St., $4,646. Grand total $78,456.

Ia., Eldora—Hardin Co., to O. C. Melohn, Nevada, improving Project S-148, 9,045 cu. yd. gravel 1 mi. haul at $0.24 per cu.yd., 55,675 units ½ mi. haul $0.065, and 1,100 cu.yd. stripping $0.20; to A. G. Schneiders, Pocahontas, 4,550 cu.yd. gravel 1 mi. haul $0.28, and 50,050 units ½ mi. haul $0.069.

Kan., Eldorado—Butler Co., grading 7.991 mi. Project 67-F, to M. R. Ammerman, Wichita, $47,487. This corrects report in Sept. 22 issue.

Kan., Newton—Asphaltic concrete paving 20,936 sq.yd. various streets, to J. H. Shears & Sons, Hutchinson, $26,424; and brick paving 20,427 sq.yd. various streets, to Stanton & Wallace, Leavenworth, $41,879.

Kan., Seneca—Nemaha Co., grading, etc. 9.135 mi. Federal Aid Project 319, 28 ft., to Dan Scherrer Constr. Co., Kansas City, $46,294; also concrete and steel bridge on Sta. 96 plus 40, same road, to Loomis Constr. Co., St. Joseph, Mo., $11,069. Noted Mar. 3.

Nebraska — State Hy. Comn., Lincoln, grading 9.2 mi. U. S. Highway 20, Cedar Co., to Theisen Bros., Osmond, $29,421.

Neb., Lincoln—Concrete paving 356 sq.yd. streets in Dist. 185, to Reimers-Kaufman, 1111 North 16th St., $777; brick paving 255 sq.yd. Dist. 193, to C. W. Beans, 1528 South 21st St., $1,719; also asphaltic concrete paving 6,000 sq.yd. Dist. 633 and 970 sq.yd. Dist. 746, to Cochrane Constr. Co., 822 1st Natl. Bank Bldg., $24,853 and $3,327 respectively. Grand total $30,676.

Neb., Westpoint—To Roberts Constr. Co., 1st Natl. Bank Bldg., Lincoln, Johnson method concrete paving streets in Dist. 7 $11,577, and Dist. 8 $26,074, also brick paving streets in Dist. 9 $4,399. Grand total $42,056. Noted Aug. 14.

Missouri — State Hy. Comn., Jefferson City, to Carte-Harlin Constr. Co., West Plains, 24 ft. grading 0.759 mi. Route 51, Sect. 1 $5,128, 30 ft. grading 2.8 mi. State Project 208-B, $36,566 both Bollinger Co., and 4.062 mi. Route 25, Sect. 25, Cape Girardeau Co. $31,243; to M. Haase, St. Joseph 30 ft. grading 3.189 mi. Route 33, Sect. 5, $14,909 and 2.241 mi. Route 33, Sect. 6, $22,324, both Clinton Co.; to E. Johnson, St. Louis, 54 ft. grading 1.548 mi. Route 2, Sect. 2, St. Louis Co. $13,769; to E. C. Johnson, Carrollton, grading and concrete paving 1.21 mi. Route 71, Sect. 61, Cass Co. $47,594, to C. H. Atkinson Paving Co., Watertown, S. D., 2.644 mi. Route 65, Sect. 20-B, Livingston Co. $25,846, 0.17 mi. Route 36, Sect. 32, Linn Co. $5,473, to DuBois & Co., Pittsburg, Kan., 0.903 mi. Route 16, Sect. 16-A, Lawrence Co. $28,165, to A. W. Mosley, Kansas City, 0.522 mi. Route 71, Sect. 1, Jackson Co. $18,547, and to Lynch-McDonald Constr. Co., Moberly, 0.381 mi. Macon-Brookfield Rd., Linn Co. $11,199; to Kelly & Underwood, Granby, 18 ft. graveling 2.212 mi. Lowry City-Osceola Rd., St. Clair Co. $52,441, 18 ft. chats surfacing 4.069 mi. Route 71, Sect. 84, Barton Co. $4,284, 4.039 mi. Route 71, Sect. 85, Barton Co. $4,248, 4.083 mi. Route 71, Sect. 82 $4,285 and 4.115 mi. Route 71, Sect. 83, $4,327, both Vernon Co. Grand total $330,348. Noted Aug. 25.

Mo., Kirkwood—To Moore Bros. Constr. Co., 2000 St. Clair Ave., East St. Louis, Ill. rein.-con. paving Clay St. between Madison Ave. and Woodbine St. $16,024, Clay St. between Argonne Dr. and Washington St. $8,399, and Washington St. between Van Buren St. and Sugar Creek Rd. $14,891; also to Fehlig-Ferrenbach, Inc., 3500 Hickory St., St. Louis, Parkwood Ave. between Adams St. and Amherst Circle, $7,455. Grand total $46,769.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Central Paving & Constr. Co., 6161 Maple Ave., rein.-con. paving 5,185 sq.yd. Dale Ave. $25,005, 2,650 sq.yd. Morganford Rd. $11,746, and warrenite bitulithic paving 4,660 sq.yd. Kansas St. $29,539; to Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., asphalt paving 6,535 sq.yd. Dale Ave. $40,396; to Eyerman Contg. Co., 1216 South Grand Blvd., granite block paving 1,295 sq.yd. St. Charles St. $9,499; and to Crean & Scott Constr. Co., Chouteau Trust Bldg.,

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390 sq.yd. St. Charles St $2,841. Grand total $119,026. Noted Aug. 11.

Arkansas—State Hy. Dept., Comn., Little Rock, grading, etc. 8 mi. Highway 22 Sect. 5, Yell Co., and 8 mi. Highway 65 Sect. 1, Boone Co., to M. E. Gillioz, Monett, Mo., $68,239 and $98,031 respectively, 7 mi. Highway 14, Sect. 3, Marion Co., to Thurber Constr. Co., F. & M. Bldg., Fort Worth, Tex. $58,453, 6 mi. Highway 4, Sect. 13, Bradley Co., to L. T. Campbell, Eldorado $51,324, and 7.5 mi. Highway 71, Sect. 12, Logan and Scott Counties, to Cook & Ranson, Ottawa, $38,109; grading and gravel surfacing, etc. 8 mi. Highway 14, Sect. 12, Jackson Co., to A. A. Davis, 1001 Commerce Tr. Bldg., Kansas City, Mo., $49,107. Grand total $363,263.

Texas—State Hy. Dept., Austin, one course surface treating 372,328 sq.yd. Highway 35, Polk Co., and 163,610 sq.yd. Highway 67, Comanche Co., to J. E. Ward Co. Inc., Linz Bldg., Dallas, $60,317 and $27,650 respectively.

Texas—State Hy. Dept., Austin, approximately 190 ft. concrete and steel bridge over Pease River, Wilbarger Co., to J. W. Williams, Oklahoma City, Okla., $130,197. Noted Sept. 1.

Texas—State Hy. Dept., Austin, bituminous surfacing 142,000 sq.yd. Highway 30, Runnels Co., to Cocke & Turner, Marshall, $26,358. Noted Sept. 1.

Tex., Amarillo—For 3 in. brick on 4 in. concrete paving approximately 6 blocks 11th St., 50 ft., to L. H. Howard, $34,739; and 3 in. brick on 5 in. concrete paving approximately 11 blocks 8th St., to Wilmering & Mullen, 96 Polk St., $87,463.

Tex., Brownsville—Cameron Co., concrete paving 10.6 mi. Paredes Line Rd., Highway 100, 16 ft., and 6.5 mi. Highway 100 from Highway 12 to intersection Paredes Line, 18 ft., to Dodds & Wedegartner, Brownsville $267,742 and $162,304 respectively; grading and drainage structures on 16.4 mi. Boca Chica Rd., to G. B. Merriweather, Donna, Unit 1 $49,971 and Unit 2 $4,678. Grand total $484,695. Noted Sept. 1.

Tex., Dalhart—For 2.5 in. brick on 4 in. concrete paving 17 blocks various streets, to J. Stanton, Dalhart, at $2.80 per sq.yd.

Tex., Fort Worth—Paving Norma Ave. from Edgewood St. to Tierney Rd., to General Constr. Co., Cotton Exch. Bldg., $25,236.

Tex., Harlingen—Asphalt paving Pierce Filmore and Jackson Aves., 1st, Buchanan, Tyler and 4th Sts., 3/5 mi. around city lake to city limits, to F. P. McElwrath, Harlingen. $125,000.

Tex., Houston—State Hy. Dept., c/o R. S. Sterling, chn., Austin, two 160 ft. steel and twelve 26 ft. rein.-con. girder approach span bridge over San Jacinto River, on Highway 3, Harris Co., here, to P. G. Burns, Houston, using rectangular shaft piers. $107,135. Engrs. est. $115,000.

Tex., Houston—Harris Co. will pave with asphalt on macadam 2.2 mi. Hardy St. Rd., by day labor. $27,000. Howe & Wise, Court House, engrs.

Tex., San Antonio—Rock asphalt paving approximately 12 blocks, West Evergreen, Agarita, and Euclid Sts., to Southwest Bitulithic Co., Gunter Bldg., approximately $26,500.

Tex., Seymour—Baylor Co., 2½-in. bituminous macadam paving 13.258 mi. Highway 30 from here to Knox Co. line, 18 ft., to H. K. McCollum, F. & M. Bank Bldg., Ft. Worth, $102,018. Engrs. est. $125,000. Noted May 19.

Tex., Wharton—Wharton Co., grading, etc. 10.813 mi. Highway 12 from El Campo to Wharton, 26 ft., to Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $62,058. Engrs. est. $70,785.

Oklahoma—State Hy. Dept., Oklahoma City **(F.A.P. means Federal Aid Project, S.A.P. State Aid Project and e.e. engineers estimate)**, to S. E. Grey, Muskogee, grading 12.19 mi. Highway 27, S.A.P. 250-D and E, Adair Co. $67,736 e.e. $70,000, to J. T. Ables, Madill, 9.31 mi. Coalgate Rd., S.A.P. 374-A and B, Coal Co. $37,449 e.e. $40,000, to Witt & Bolton, Granfield, 10.05 mi. Lawton Rd., F.A.P. 215-A and B, Comanche Co., $34,807 e.e. $35,000, and 3.818 mi. Frederick Rd., S.A.P. 453, Tillman Co. $23,473 e.e. $25,000, to G. Kerr, Clinton, 1.912 mi. F.A.P. 157-F and G, Cotton Co. $10,238 e.e. $12,500, to D. Sweeney, 614 West 11th St., Oklahoma City, 5.87 mi. Chickasha-Tabler Rd., F.A.P. 202-A, Grady Co. $33,956 e.e. $35,000, to Richards & Moorman, Cushing, 15.177 mi. Chandler Rd., F.A.P. 136-E and G, Lincoln Co. $98,634 e.e. $125,000, to T. Collins, Cushing, 5 mi. Stillwater Rd., F.A.P. 198-G, Payne Co. $23,658 e.e. $27,006, to C. McCoy, Perry, 5 mi. Highway 25, F.A.P. 230-D, Noble Co. $37,969 e.e. $39,500, and 6.81 mi. Lela-Pawnee Rd., F.A.P. 230-A, Pawnee Co. $48,270 e.e. $50,000, to M. A. Swatek, 519½ West Main St., Oklahoma City, 10.35 mi. Pawnee-Cleveland Rd., F.A.P. 229-C and D, Pawnee Co. $68,965 e.e. $70,000, to Maney & Allen, Empire Bldg., Oklahoma City, 14.01 mi. Meeker Rd., F.A.P. 131-F and G, Lincoln Co. $60,029 e.e. $70,000, 5.76 mi. Seminole-Wewoka Rd., F.A.P. 222-H, $46,750 e.e. $48,000, and 6 mi. Seminole-Wewoka Rd., F.A.P. 222-C, $52,502 e.e. $56,205 both Seminole Co. to Blackburn & Ruby, Healdton, 5 mi. Stillwater Rd., F.A.P. 198-B, Payne Co. $27,822 e.e. $30,000, 5.714 mi. same road, Sect. D $45,857 e.e. $50,000, and 5 mi. same road, Sect. C $17,896 e.e. $20,000, to Standard Paving Co., 1742 East 6th St., Tulsa, 14.01 mi. F.A.P. 131-H, Lincoln Co. $47,405 e.e. $55,000, to Reynolds & Sutton, Tyler, Tex., 0.4 mi. Comanche Rd., F.A.P. 187-A, Stephens Co. $10,206 e.e. $25,000, and concrete slab surfacing 7.069 mi. Camanche-Loco Rd., F.A.P. 187-B, Stephens Co. $167,329 e.e. $170,000, to Hyde Constr. Co., Amer. Bank Bldg., Enid, 4 mi. State Rd. 13, F.A.P. 180-B, Garfield Co. $89,239 e.e. $110,000; to J. W. Williams, Oil Exch. Bldg., Oklahoma City, structures, etc. 15.177 mi. Chandler Rd., F.A.P. 136-F, Lincoln Co. $30,354 e.e. $35,000. Grand total $1,080,544. Noted Aug. 25.

Okla., Oklahoma City—Grading and sheet asphalt paving 5,200 sq.yd. Blackwelder St., to Western Paving Co., Tradesmens Bldg., $26,071. Engrs. est. $26,167. Noted May 26.

Okla., Stillwater—Grading, curbing and concrete paving 11,675 sq.yd. Dist. 56, to T. Gudgel, Stillwater, $40,018. Engrs. est. $42,228.

Colo., Denver—Grading, curbing and surfacing, North Side Impvt. Dist. 37, to Western Constr. Corp., 3262 Blake St., (for crushed gravel surfacing). $104,782.

Washington—State Hy. Comn., Olympia **(S.R. means State Road)**—Grading, crushed rock surfacing, etc. 13,000 cu.yd. S.R. 3, Spokane Co., to Clifton, Applegate & Toole, Hutton Bldg., Spokane, $94,180; grading, etc. 55,850 cu.yd. S.R. 10, F.A.P. 145-C, Douglas Co., to J. F. Clarkson, 254 Hawthorne Ave., Portland, Ore., $50,812; one 90 ft. steel bridge with concrete abutments over Little Naches River, Yakima Co., to R. A. Gray, 22 Sloan Bldg., Yakima $12,056, and 1,160 ft., 4 ft. timber sidewalks on Woodland Bridge over Lewis River at Woodland on S.R. 1, Cowlitz and Clark Counties, to J. W. Sadler, Spalding Bldg., Portland, Ore. $2,599. Grand total $159,647. Noted Sept. 1.

Wash., Hoquiam—For 7 in. concrete paving, etc. 8,356 sq.yd. Ontario St., to Forbes & Wilder, Olympia, $29,801. Engrs. est. $35,000.

Wash., Seattle—King Co., Seattle, grading graveling, etc. 1.34 mi. Stillwater-Snohomish Highway, to McHugh & Coluccio, 517 3rd Ave. N., $34,600. Engrs. est. $36,000. Noted Aug. 25.

California—State Hy. Comn., Sacramento, grading 21.3 mi. Coso-Alancha Rd., Inyo Co., to F. C. Payton, Norwalk, $28,952. Noted July 28.

Calif., Alhambra—Grading and 7 in. asphaltic concrete paving, etc. approximately 136,900 sq.yd. Main St. to Hall-Johnson Co., 905 Westminister Ave., $35,955.

Calif., Arcadia—C. G. Meade, city clk., curbing and macadam paving, etc. 2nd Ave., to Shull & Co., 122 Walnut St., Riverside, $25,578. Noted Aug. 25.

Calif., Corcoran—Asphaltic concrete paving Chase Ave., etc., to California Road & Street Impvt. Co., Bank of Italy Bldg., Fresno, $66,954.

Calif., Escondido—Grading, curbing and asphaltic concrete paving, etc. 372,612 sq.ft. Ohio Ave., etc., to G. R. Daley, 4430 Boundary Ave., San Diego, $55,405. Noted Sept. 8.

Calif., Huntington Park—Grading, curbing, walks and 5 in. asphaltic concrete and 8 in. concrete paving Irvington Ave. between Passaic Ave. and city limits, to Curtis Paving Co., 2440 East 26th St., Los Angeles, $51,962; also curbing, guttering, walks and 5 in. asphaltic concrete paving, etc. Seville Ave., etc., to Los Angeles Paving Co., 3200 East Vernon Ave., Los Angeles, $45,695.

Calif., Los Angeles—Grading, walks and concrete paving, etc. Dover Pl. between Edenhurst Ave. and Glenfeliz Blvd., also grading, curbing, guttering, walks and National asphaltic concrete paving, etc. Gardenside Lane between southwesterly line Edenhurst Ave. and northeasterly line Glenfeliz Blvd., to C. U. Heuser, 250 West 7th St., $8,906 and $19,520 respectively; grading, concrete and asphaltic concrete paving, etc. Slauson Ave. between 8th Ave. and point 130 ft. west of Hillcrest Dr., etc., to G. R. Curtis Paving Co., 2440 East 2 St., Vernon $72,606, and 1st alley west Bway. between 70th and 71st Sts., to W Liddington, 420 East 60th St. $993; grading, curbing, guttering, concrete, asphaltic concrete and Warrenite bitulithic paving, etc. Slauson Ave. between Figueroa and Gramercy Pl., to Los Angeles Paving Co., 2900 Santa Fe St., Vernon, $259,9; grading, guttering, concrete and rein.-con. paving, etc. Riverside Dr. between Woodman Ave. and Van Nuys Blvd., etc., to Bosko & Konjevod, $35,214; grading and concrete paving, etc. Winans Dr. between westerly line Beachwood Dr. and easterly line Vasanta Way, etc., to McCray Contg. Co., 129 West 2nd St., $70,748; also grading Grape St. between southwesterly line Santa Ana Blvd. and northerly line 11th St. etc., to Baker & Vigus, I. W. Hellman Bldg. $4,031, and Case Ave. between Hatteras St. and Burbank Blvd., etc., to C. R. Snow $3,892. Grand total $475,851.

Calif., Los Angeles—Supervs. Los Angeles Co., curbing, guttering and 2 in. asphaltic concrete paving, etc. 105,340 sq.ft. Western Ave., to Griffith Co., 502 Los Angeles Ry. Bldg., $47,787. Engrs. est. $44,687. Noted Aug. 25.

Calif., Merced—P. J. Thornton, clk. Merced Co., 5 in. concrete paving, etc. Merced-Snelling-Merced Falls Rd., to United Concrete Pipe & Constr. Co., $54,750. Noted Aug. 25.

Calif., Petaluma—Concrete paving, etc. D St. (Acq. and Impvt. Dist. 2), to J. V. Galbraith, Petaluma, $92,369.

Calif., Redwood City—Grading and 1½ in. Warrenite on 2½ in. asphaltic concrete paving portions Cooper and Hancock Sts., etc., to Peninsula Paving Co., 58 2nd St., San Francisco, $34,540.

Calif., Richmond—Grading, Warrenite bitulithic on asphaltic concrete paving, etc. San Pablo Ave. between McBryde and Macdonald Aves., to California Constr. Co., 58 2nd St., San Francisco, $48,860. Noted Aug. 4.

Calif., Ventura—City Council, curbing and concrete paving 381,745 sq.ft. Ventura Heights Tract, to United Concrete Pipe & Constr. Co., Chamber of Commerce Bldg., Los Angeles, $171,319.

Calif., Woodland—Clerk Yolo Co., 5 in. Willite paving roadway point 3 mi. from Ely station north, to A. Teichert & Sons, 1846 37th St., Sacramento, $63,198.

Calif., Yreka—Grading and asphaltic concrete paving, etc., 2nd St., etc., to Clark & Henery Constr. Co., Chancery Bldg., San Francisco, $80,224.

Ont., Guelph—Wellington Co., concrete paving 1½ mi. Elora Rd., to McArthur Eng. & Constr. Co., Douglas St., $45,000.

Ont., Oshawa—Standardite and concrete curbing, and asphalt paving 7 streets, to Standard Paving Co. Ltd., Elgin St., Ottawa, $111,000.

Ont., Toronto—York Twp., asphalt on concrete paving Gilbert Ave., also tar bound macadam paving Somerville Ave., to Godson Contg. Co., 203 Richmond St. W., $20,130 and $6,188 respectively.

B. C., Vancouver—Concrete paving various streets, to Hodgson, King & Marble, 626 Pender St. W. $9,657, and to Dawson Wade & Co., Bekins Bldg., $6,412; warrenite bitulithic paving, to Columbia Bitulithic Co., Bekins Bldg., $2,292; 9½ mi. 6 ft. sidewalks and ¾ mi. curbing various streets, to G. W. Ledingham, 348 8th Ave. E., $55,153. Grand total $73,514.

Buildings—Commercial

Proposed Work

Mass., Bedford (br. Boston)—APARTMENT—F. T. Bustin, 52 7th St., having plans prepared by O. A. Watkins, Rock Glen Rd., 3 story and basement, 60 x 110 ft., brick and stone, plain foundation, 8th and Middlesex Sts. $160,000.

Mass., Boston—OFFICE—McMillan Co., 755 Boylston St., plans office building, Newbury and Fairfield Sts. To exceed $150,000. J. H. Ritchie & Associates, 250 Stuart St., archts. Noted Sept. 22.

Mass., Cambridge (br. Boston)—GARAGE—W. S. Young, 18 Webster St., Brookline, having preliminary plans prepared by H. F. Bryant, 334 Washington St., Boston, probably rein.-con., 300 car capacity, Church St. To exceed $150,000.

Mass., Cambridge (br. Boston)—WAREHOUSE—Jordan Marsh Co., 450 Washington St., Boston, having sketches made by Monks & Johnson, 99 Chauncy St., Boston, altering and constructing rein.-con. and brick top addition, plain foundation, here. $150,000 or more. Noted Aug. 18.

Buildings—Commercial (Continued)

N. Y., Little Neck (mail Douglaston) — BANK—Little Neck Natl. Bank having plans prepared by P. B. LaVelle, 505 5th Ave., New York City, 2 story and basement, 80 x 82 ft., Northern Blvd. and Little Neck Rd. $150,000.

N. Y., New York — APARTMENT — J. Tishman & Sons, 285 Madison Ave., having plans prepared by Swartz & Gross, 347 5th Ave., 14 story and basement, 84 x 160 ft., rein.-con., brick and steel, plain foundation, Park Ave. and 81st St. $3,000,000.

N. Y., New York—APARTMENTS—Six West Seventy-Seventh Street Corp., having plans prepared by N. Korn, 9 East 40th St., 15 story and basement, 100 x 150 ft., rein.-con., brick and stone, plain foundation, 6 West 77th St. $2,000,000.

N. Y., New York—WOMENS PRISON—Dept. Correction, Municipal Bldg., takes bids in January, 14 story, roof garden and basement, 100 x 190 ft., brick and steel, concrete pile foundation, Greenwich and 6th Aves. $2,000,000. B. W. Levitan, 100 East 42nd St., New York City, archt. Noted Sept. 15.

N. Y., St. George—COURT HOUSE—J. A. Lynch, pres. Richmond Boro, Boro Hall, takes bids about Oct. 22, 2 story and basement, brick and steel, brick and concrete foundation, Castleton and Bement Sts. $200,000. Sibley & Fetherstone, 101 Park Ave., New York City, archts.

N. J., Atlantic City—APARTMENT—T. J. Koury, 919 Boardwalk, having revised plans prepared by A. F. Amodio, 45 Branford Pl., Newark, 7 story and basement, brick and steel, plain foundation, Cornwall Ave. $250,000. Noted Aug. 18.

N. J., Atlantic Highlands—HOTEL and SANITORIUM—Owner, c/o A. F. Amodio, archt., 45 Branford Pl., Newark, having sketches made 3 story and basement, brick and steel, Mitchell Hill St. $1,000,000.

N. J., Bayonne—CITY HALL—Bd. Council, City Hall, plans 3 story and basement, brick and steel city hall. $150,000. Engineer and architect not selected.

N. J., Belleville (br. Newark) — HOSPITAL—Bd. Freeholders Essex Co., Court House, Newark, having plans prepared by D. L. Richardson, 192 Eaton St., Providence, R. I., brick and steel, addition to Isolation Hospital, plain foundation, Soho St., here. $1,000,000.

N. J., Belmar—HOTEL—Owner, c/o J. Centanni, archt., 142 Market St., Newark, having plans prepared 3 story and basement, 80 x 120 ft., brick and steel, plain foundation, here. $150,000. Noted June 9.

N. J., East Orange — APARTMENT — Glenwood Apartment Co., c/o R. Botelli, archt., 45 Branford Pl., Newark, having plans prepared 4 story and basement, brick and steel, plain foundation, 210 Glenwood Ave., here. $200,000.

N. J., Elizabeth—APARTMENT—Owner, c/o J. B. Beatty, archt., 15 North Read St., having sketches made two 4 story and basement, brick and steel, plain foundations. $225,000.

N. J., Jersey City—APARTMENT—Advance Development Corp., c/o C. I. Goldberg, archt., 437 Bway., Bayonne, having plans prepared 5 story and basement, brick, plain foundation, 149 Bentley Ave. $150,000.

N. J., Newark—APARTMENTS—Owner, c/o S. Cohen, archt., 130 Branford Pl., having sketches made 5 story and basement, brick and steel, plain fonudation. $250,000.

N. J., Newark—HOSPITAL and NURSES HOME—St. Micheals Hospital, E. M. Waldron, chn. building com., High St., plans 3 story and basement, brick and steel, hospital addition and nurses home, plain foundation. $300,000. Engineer and architect not selected.

N. J., Passaic—APARTMENT—L. Stein, 231 Lexington Ave., plans 5 story and basement, brick and steel, Lexington Ave. $150,000. Engineer and architect not selected.

N. J., Passaic — ORPHANAGE — State Building Comn., had sketches made by B. Bellay, 80 Lexington Ave., orphanage, incl. cottages, church, school, fire house, etc., here. $150,000.

N. J., Passaic—STORE and OFFICE—Lee Hamilton Building Corp, c/o J. Holt, archt., 132 Market St., Paterson, having plans prepared 5 story and basement, 75 x 100 ft., brick and steel, plain foundation, Hamilton Ave. $300,000.

N. J., Ridgefield Park — GARAGE—M. Zimmerman, 336 Main St., having plans prepared by F. Meisler, 163 Main st., Hackensack, 2 story and basement, 75 x 200 ft., brick and steel, plain foundation, Spruce St. $150,000.

N. J., Trenton — APARTMENT and STORE—Dolton Realty Co., W. A. Weinmann, pres., 38 West Hanover St., plans 5 story apartment and store building, 35-37 West State St.

N. J., Trenton — BANK — First Natl. Bank, 34 East State St., having sketches made by York & Sawyer, 100 East 42nd St., New York City, brick and steel, State and Broad Sts. $150,000.

N. J., West New York—APARTMENT—Owner, c/o C. G. Eicholz, Jr., archt., 960 Bergenline Ave., Union City, having sketches made 5 story and basement, brick and steel, plain foundation, here. $150,000.

Pa., Ambridge—THEATRE and OFFICE—United Amusement Co., c/o N. B. Nadler, having plans prepared by W. E. Snaman, Empire Bldg., Pittsburgh, and soon takes bids 2 and 3 story and basement, irregular shaped, brick and steel theatre and office building. $300,000.

Pa., Mt. Lebanon (Pittsburgh P.O.)—THEATRE—United Amusement Co., c/o N. B. Nadler, Ambridge, having plans prepared by W. E. Snaman, Empire Bldg., Pittsburgh, 1 story and mezzanine, brick and steel, Central Sq., here. $350,000.

Pa., Phila. — APARTMENT—Schultz & Weaver, archts., c/o I. Stern, Franklin Sq. Bldg., preparing preliminary plans 22 story and basement, 110 x 150 ft., rein.-con., brick and steel, plain foundation, 18th and Rittenhouse Sts. $6,000,000.

D. C., Wash. — APARTMENT HOTEL and STORE — Army & Navy Apartment Hotel Co., had plans prepared by M. G. Lepley, 812 Denrike Bldg., 1010 Vermont Ave., apartment hotel, 818-20 Connecticut Ave. $300,000.

D. C., Wash. — MUNICIPAL — District Comrs., District Bldg., had sketches made municipal annex, D St and Ohio Ave., 13½ and 14th Sts. N. W. $10,000,000.

Tenn., Chattanooga — APARTMENT—J. W. and H. Stoops having plans prepared by Dougherty & Gardner, Cotton States Exch. Bldg., apartment building at Dallas Heights. $250,000.

Tenn., Murfreesboro—HOTEL—Company, fostered by Chamber of Commerce, having plans prepared by D. Southgate, Stahlman Bldg., Nashville, 5 story and basement, rein.-con., brick and steel, Main St. $150,000. Noted June 23.

Ky., Louisville — HOSPITAL—Norton Memorial Infirmary, J. D. Burge, pres., Bd. Trustees, 3rd and Oak Sts., Plans 8 to 9 story, 2 front and 1 rear wings, Third and Oak Sts., $600,000. D. X. Murphy & Bro., Trust Bldg., archts.

Ky., Paducah — HOTEL — G. Langstaff having plans prepared by Marr & Holman, Stahlman Bldg., Nashville, Tenn., 10 story and basement, 200 room, brick, stone, concrete and steel, here. $1,000,000. Noted Sept. 8.

O., Cincinnati—AUTO SERVICE—Daylight Realty Co., 718 1st Natl. Bank, having plans prepared by Kruckermeyer & Strong, 404 St. Paul Bldg., 5 story and basement, 92 x 280 ft., brick and rein.-con., plain foundation, 6th and Court Sts. $300,000.

O., Cincinnati—OFFICE—Union Gas & Electric Co., H. C. Blackwell, pres., had plans prepared by J. R. Pope and Garber & Woodward, 4 West 7th St., office building, 4th and Main Sts.

O., Cleveland—OFFICE and GARAGE—Cleveland Union Terminal Co., C. L. Bradley, pres., Cleveland Hotel, having preliminary plans prepared by Graham, Anderson, Probst & White, 80 East Jackson Blvd., Chicago, Ill., 2 story and basement, brick, steel and concrete, Ontario St. and Prospect Ave.

O., East Cleveland (br. Cleveland)—APARTMENT — H. Dolinsky, Kinsman Builders Supply Co., 6317 Kinsman Rd., Cleveland, having plans prepared by M. Altschuld, 5116 Woodland Ave., Cleveland, 2 story and basement, 66 x 165 ft., brick, 1st Ave. $150,000.

Mich., Birmingham—OFFICE—J. Couzens had plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 8 story and basement, 100 x 208 ft., rein.-con., brick and steel, plain foundation, Maple Rd. $1,000,000. Noted Sept. 1.

Mich., Detroit — APARTMENT — Owner, c/o Wiedmaier & Gay, archts., 1212 Metropolitan Bldg., having plans prepared 4 story and basement, 62 x 134 ft., rein.-con., brick and steel, plain foundation, Martindale Ave. $175,000.

Mich., Detroit—STORE and OFFICE—Owner, c/o J. I. Weinberg, archt., 514 Free Press Bldg., having plans prepared 2 story and basement, 100 x 138 ft., rein.-con., brick and steel, plain foundation, Livernois and Franklin Sts. $150,000.

Ill., Chicago—APARTMENT and STORE—Lawrence Building Corp., c/o Huszah & Hill, 6 North Michigan Ave., having plans prepared 12 story and basement, 110 x150 ft., Lawrence and Kenmore Aves. $750,000.

Ill., Chicago—HALL and MEMORIAL—West Park Comrs having plans prepared by Michealson & Rognstad, 3256 Franklin Blvd., 2 story, brick and stone community hall with arcade along front, Laramie Ave between Potomac and Hirsch Aves., in La Follette Park, $241,768; also memorial building in east end of park, $758,232.

Ill., Chicago — HOSPITAL — Womens & Childrens Hospital, Paulina and West Adams Sts., having sketches made by W. S. Crosby, 6 North Michigan Ave., 6 story and basement hospital, Maypole St. and Ashland Ave. $500,000. Noted Apr. 7.

Ill., Evanston — APARTMENT — H. S. Jones 1428 Noyes St., having plans prepared by Hall, Lawrence, Rippel & Ratcliffe, 123 West Madison St., Chicago, 7 story and basement, 99 x 185 ft., rein.-con. brick and stone, Hinman Ave. and Grove St. $1,100,000.

Mo., Kansas City—HOTEL—W. Jewell, 622 Chambers Bldg., having plans prepared 8 story and basement, 112 x 160 ft., rein.-con. and brick, Linwood Blvd. and Harrison St. Private plans.

Mo., St. Louis—CLUB—St. Louis Metropolitan Club, c/o E. D. Nims, chn. building com., 11th and Pine Sts., postponed indefinitely construction 5 story and basement, 112 x 155 ft., rein.-con., brick and stone clubhouse, incl. swimming pool, etc., Kingshighway and Maryland Ave. $1,500,000. Mauran, Russell & Crowell, Chemical Bldg., archts. Noted Mar. 17.

Mo., St. Louis—COMMUNITY—G. M. G. Corp., c/o C. J. Grotwell, 909 Chestnut St., takes bids about Oct. 7, 2 story and basement, 142 x 215 ft., rein.-con., brick and terra cotta, Acme and West Florissant Sts. $375,000. Klingenschmidt & Wilkins, 1217 Louderman Bldg., archts.

Mo., St. Louis—OFFICE and LODGE—Knights of Pythias, c/o St. Louis Lodge Deputies Assn., takes bids about Oct. 6, 15 story and basement, 75 x 150 ft., rein.-con., brick, stone and steel, Grand and Delmar Blvds. $1,000,000. Trueblood & Graf, Chemical Bldg., archts. Noted Jan. 6.

Ark., Fort Smith—MASONIC TEMPLE—Masonic Home Assn., R. L. Secrest, secy., soon takes bids rein.-con., brick and stone, Grand Ave. and North 11th St. $400,000. G. A. Mann, 1316-18 New Donaghey Bldg., Little Rock, and Haralson & Nelson, Merchants Bank Bldg., associated archts.

Tex., San Antonio — OFFICE — Subsidiary Corp. of Medical Arts Building Co., c/o R. Nix, Medical Arts Bldg., having preliminary plans prepared by R. H. Cameron, c/o City Natl. Bank Bldg., 13 story and part basement, rein.-con., brick, stone and terra cotta addition, plain foundation, Houston St. and Avenue E. $500,000.

Tex., Temple—HOTEL—R. L. Walling, archt., 806 Scarbrough Bldg., Austin takes bids about Oct. 1, 12 story, first floor 110 x 150 ft., rein.-con. brick and stone. Main St. and Barton Ave., for A. C. Scott, Sr., and associates. $350,000. Noted Aug. 4.

Okla., Oklahoma City—EXCHANGE and OFFICE—Southern Bell Telephone Co., 11th and Pine Sts., St. Louis, Mo., soon lets contract 14 story and basement, 100 x 140 ft., rein.-con., brick, stone and steel, 3rd St. and Bway., here. $3,000,000. I. R. Timlin, c/o owner and Layton, Hicks & Forsyth, 906 Braniff Bldg., archts. Noted Sept. 15.

Nev., Ely—HOTEL and STORE—Nevada Hotel Co., c/o H. L. Stevens Co., archts., 433 California St., San Francisco, Calif., having plans prepared 6 story and basement, brick hotel. $400,000.

Wash., Tacoma—HOTEL—J. F. Hickey, 65 East Rd., plans remodeling and constructing 300 room addition to Hotel Tacoma, 9th and A Sts., also 150 car garage. $1,000,000.

Calif., Bakersfield — HOSPITAL and SANITARIUM—Kern Co. having plans prepared by C. H. Biggar, Bank of Italy Bldg., 1st unit fireproof hospital $150,000, and addition to childrens tubercular unit $60,000. Noted May 5.

Calif., Colusa—HOTEL—Citizen's Hotel Assn. c/o W. H. Weeks, archt., 369 Pine St San Francisco, having plans prepared hotel, probably concrete. $150,000.

Calif., Los Angeles—APARTMENT—W. C. West, c/o F. Webster, archt., Guaranty Bldg., having plans prepared 4 story and basement, 122 room, concrete, Franklin Ave. $225,000.

Calif., Los Angeles — HOTEL—A. B. Taggart, c/o W. E. Chadwick, archt., Union League Bldg., having preliminary plans prepared 4 story and basement, 30 x 120 ft., brick, West Pico St. $150,000.

Calif., Los Angeles—THEATRE—Vega Corp., 5625 Whittier Blvd., having plans prepared by W. E. Chadwick, Union League Bldg., rein.-con., Whittier Blvd. $150,000 or more.

Buildings—Commercial (Continued)

Calif., North Sacramento—THEATRE—P. Prom, c/o Starks & Flanders, archts., Oehsner Bldg., Sacramento, had plans prepared 1 story, rein.-con., 1,000 seating capacity, Del Paso Blvd. $150,000.

Calif., Redondo Beach—CLUB and HOTEL—Elks Club of Redondo Beach, having sketches made by Dwyer & Van Dorn, 3142 Wilshire Blvd., Los Angeles, 7 and 10 story and basement club and hotel, etc. $1,000,000.

Calif., San Diego — APARTMENT — J. Black, c/o L. A. Smith, archt., Film Exch. Bldg., Los Angeles, having plans prepared 5 story and basement, brick apartment, $300,000.

Calif., San Francisco—APARTMENT—Marine View Apartments, Inc., c/o W. Folk Co., 277 Pine St., having preliminary plans prepared 13 story and basement, probably rein.-con., Chestnut St. between Hyde and Larkin Sts. $750,000.

Calif., San Francisco—APARTMENT—A. W. Wilson, c/o C. A. Meussdorffer, archt., Humboldt Bank Bldg., had plans prepared 7 story and basement, steel and rein.-con., Pacific and Webster Sts. $150,000.

B. C., Vancouver—EXHIBITION—Plans election in December, $250,000 bonds, rein.-con. permanent exhibition buildings, Hastings Park, A. J. Bird, city archt.

Ont., Niagara Falls — HOTEL — United Hotels of America, G. O'Neil, genl. mgr., King Edward Hotel, Toronto, takes bids about Oct. 15, 10 story, stone addition, River Road, here. $1,000,000. Eisenwehr & Johnson, 781 Ellicott Sq., Buffalo, N. Y., archts.

Ont., Ottawa — HOTEL — C. Burgess, archt., 185 Sparks St., preparing plans and soon takes bids 9 story and basement hotel, Sparks St., for R. L. Blackburn, $800,000. Noted Sept. 15.

Gr', Toronto — APARTMENT — Price Constr. Co., 375 Bay St., having plans prepared by K. Hystop, 43 Adelaide St. W., 6 story and basement, 80 x 100 ft., concrete, brick, steel and stone apartment. $250,000.

Ont., Toronto—ELECTRICAL and ENGINEERING—Canadian Natl. Exhibition, Lumsden Bldg., having plans prepared by Champman & Oxley, Northern Ontario Bldg., and soon takes bids 1 story, 223 x 487 ft., concrete, brick, steel and stone, Exhibition Park. $650,000.

Bids Desired

Mass., Brighton (Sta. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Brookline (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Wellesley (br. Boston)—STORE, OFFICE and SHOP — See "Contracts Awarded."

Mass., Worcester — HOTEL—See "Contracts Awarded."

N. Y., Brooklyn — APARTMENT — H. Shurgin, 715 Avenue S, taking bids 6 story and basement, 87 x 20 ft., brick, plain foundation, West 9th St. and Quentin Rd. $200,000. M. Courtland, 366 5th Ave., New York City, archt.

N. Y., Brooklyn—BANK—Oct. 11, by Halsey, McCormack & Helmer, archts., 286 5th Ave., New York City, 40 story, 98 x 202 ft., steel, Hanson and Ashland Pls., here, for Williamsburg Savings Bank. $4,000,000. F. Sutton, 140 Cedar St., New York City, engr.

N. Y., New York — HOSPITAL and NURSES HOME—Oct. 3, by French Hospital, 450 West 34th St., 15 story, 80 x 160 ft., hospital and 8 story, 70 x 80 ft. nurses home, brick and steel, concrete and wood pile foundations, 8th Ave. between 29th and 30th Sts. $2,000,000. Crow, Lewis & Wick, 200 5th Ave., archts. Noted June 24.

N. Y., White Plains—CENTER—Oct. 13, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, Westchester Co. Center Building, here, Contr. 125. J. Downer, Bronxville, ch. engr.; adv. E. N.-R. Sept. 29.

N. Y., Woodside (Ind. br. Flushing)—APARTMENTS—Oct. 1, by Lerose Constr. Co., 570 7th Ave., New York City, 6 story and basement, 100 x 150 ft., brick, plain foundation, Foster Ave. and Packard St., here, $250,000. M. J. Morrison, 63 Park Row, New York City, archt.

N. J., East Orange—SHOW ROOM and GARAGE—Baldwin Constr. Co., Central Ave., and E. V. Warren, archt., 31 Clinton St., Newark, taking bids general contract 2 story and basement, 120 x 200 ft., brick, steel and stone, plain foundation. $150,000.

N. J., Elizabeth — APARTMENT — See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awarded."

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Pa., Greensburg—BANK—Sept. 30, by Barclay Westmoreland Trust Co., 1 story and mezzanine, rein.-con., brick and steel, plain foundation. $200,000. Hopkins & Dentz, 415 Lexington Ave., New York City, archts.

Pa., Phila.—HOSPITAL—Oct. 5, by W. E. Herring, pres. Hahnemann Medical College and Hospital, 15th and Race Sts., 16 story, 123 x 150 ft., and 42 x 79 ft., rein.-con., steel and limestone, plain foundation, Broad St. $2,000,000. H. H. Marshall, 37 West 43rd St., New York City, archt., and Pettitt & Ferris, 115 West 45th St., New York City, engrs. Noted Mar. 10.

D. C., Wash.—EMBASSY—F. H. Brooks, archt., 1218 Connecticut Ave. N. W., taking bids concrete embassy building, Massachusetts Ave. and Observatory Circle, for Great Britain, Office of Works, London, England, superv. archt. Noted July 14.

Miss., Howell—HOSPITAL—Oct. 5, by Mississippi State Hospital, R. L. Brown, secy. Removal Impvt. & Land Sale Comn., Jackson, 2 educational, 2 infirmary and 2 occupational buildings, also power plant, all rein.-con. and brick, here. $500,000.

Miss., Whitfield—INFIRMARIES—Oct. 5, by R. L. Brown, secy. Improvement & Land Com., Jackson, 2 story and basement, 47 x 104 ft., with two 26 x 105 ft. wings, rein.-con. and brick, concrete pile foundation, here. N. W. Overstreet, Jackson, archt. and engr.

O., Cincinnati—HOSPITAL—Oct. 18, by Comrs. Hamilton Co., Court House, 4 story and basement, brick and rein.-con., plain foundation, Springfield St. $250,000. Rendigs, Panzer & Martin, Southern Ohio Bank Bldg., archts. Noted June 30.

O., Cleveland — HOSPITAL — Rainbow Hospital, c/o M. B. Wilson, supt., 2233 East 55th St., taking bids 2 story and basement, brick, steel and concrete, Richmond Rd. $500,000. Warner & McCornack, Bulkley Bldg., archts.

Mich., Detroit — OFFICE—Oct. 4, by Smith, Hinchman & Grylls, archts. and engrs., 800 Marquette Bldg., general contract 29, 35 and 40 story and basement, 80 x 200 ft., rein.-con., brick, terra cotta and steel, Griswold St., for Union Trust Co., Union Trust Bldg. $8,000,000. Noted Apr. 28 and Aug. 4.

Mich., Detroit—STORE—Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., taking bids 10 story and basement, 40 x 150 ft., rein.-con., brick, steel and stone, plain foundation, Woodward Ave., for Kern Dept. Store, E. Kern, Woodward Ave.

Mich., Lansing—HOSPITAL—Oct. 4, by Bowd & Munson, archts., 409 Wilson Bldg., 3 story and basement, rein.-con., brick and steel addition, plain foundation, Michigan Ave., for Edward Sparrow Hospital, 1215 East Michigan Ave. $150,000.

Minn., Minneapolis—STORE and OFFICE—See "Contracts Awarded."

Mo., Cape Girardeau—HOTEL—Oct. 1, at office R. K. Knox, superv. archt., 424 H. H. Bldg., 6 story and basement, 42 x 43 x 82 ft., and 43 x 126 ft., rein.-con., brick and terra cotta, Bway. and Fountain St., for Cape Girardeau Hotel Co., c/o C. L. Harrison, pres. $250,000. Manske & Bartling, 410 North Euclid Ave., St. Louis, archts.

Mo., St. Louis — COMMERCIAL — Aegerter & Bailey, archts., 1904 Ry. Exch. Bldg., taking bids 4 story and basement, 25 x 104 ft., rein.-con. and brick, Pine St., for A. H. Eilers, 4950 Warwick St.

Tex., Liberty—COURTHOUSE—Oct. 11, by C. G. Curtis, archt., Houston, 3 story, rein.-con, here, for Liberty Co. $210,000. Noted Aug. 18.

Tex., San Angelo—COURTHOUSE—Oct. 15, by J. T. Mathison, judge Tom Green Co., 2 story and basement, 64 x 175 ft., rein.-con., brick, stone and steel courthouse, $275,000. A. F. Korn, 816 Thomas Bldg., Dallas archts. Noted Sept. 22.

Calif., Oakland — APARTMENT — See "Contracts Awarded."

Calif., San Francisco — HOTEL—See "Contracts Awarded."

Calif., San Francisco — OFFICE—See "Contracts Awarded."

Bids Received

O., Cincinnati — OFFICE — Fountain Square Building Co., 2400 Gilbert Ave., 20 story and basement, 33 x 100 ft., brick and rein.-con., plain foundation, 5th and Walnut Sts., from J. and F. Harig, 1240 Queen City Ave., $1,000,000.

Contracts Awarded

Mass., Brighton (Sta. Boston)—APARTMENT—Davis Realty Trust, c/o P. Davis, 25 Pemberton Sq., will build 5 story and basement, 75 x 100 ft., brick and stone, plain foundation, Washington St., by day labor. Silverman, Brown & Heenan, 51 Cornhill, Boston, archts.

Mass., Brookline (br. Boston)—APARTMENT—H. Berch, 12 Colorado St., Mattapan, will build 3 unit apartment, 3 story and basement, 80 x 120 ft., brick, plain foundation, Amory St. $150,000. Work will be done by separate contracts. F. A. Norcross, 46 Cornhill, Boston, archt.

Mass., Cambridge (br. Boston)—MERCANTILE—M. H. Gulesian, 85 Commonwealth Ave., Newton, 3 story and basement, 125 x 180 ft., rein.-con. brick, plain foundation, Brookline, Tudor and Emily Sts., to Marden & Orlando, 146 River Rd., Winthrop. Archts. est. $150,000. Noted Sept. 22.

Mass., Danvers — HOME — Dept. Mental Diseases, State House, Boston, 3 story and basement male attendants home, brick and stone, plain foundation, at Danvers State Hospital, here, to W. J. Delaney, 283 Essex St., Lawrence. Noted Sept. 1.

Mass., Wellesley (br. Boston) — STORE, OFFICE and SHOP — Owner, c/o C. H. Waterman, Pemberton Bldg., Boston, will bild 2 story and basement, brick and stone, plain foundation, Grove and Washington Sts., Wellesley Sq., here; by day labor. $300,000. F. A. Norcross, 46 Cornhill, Boston, archt.

Mass., Worcester — HOTEL — L. Chase, 390 Main St., will build 5 story and basement, 50 x 130 ft., brick, plain foundation, Washington Sq. by day labor. F. R. MacNewen, 400 Burncoat St., archt. Noted June 30.

R. I., Providence — THEATRE and OFFICE—Marcus Loew, Inc., 154 Bway., New York City, brick and steel concrete pile and wood pile foundation, Weybosset, Page and Pine Sts., here, to M. Shapiro & Sons, 1560 Bway., New York City. Archts. est. $900,000. Noted June 30.

Conn., Norwich—WARDS—State of Connecticut, Norwich State Hospital, F. S. Wilcox, supt., two 3 story, rein.-con., brick and steel addition, to H. Wales Lines Co., 134 State St., Meriden. Archts. est. $400,000. Noted Sept. 15.

N. Y., New York — SETTLEMENT HOUSE—Lenox Hill Neighborhood Assn., 51 East 69th St., settlement house, 321 East 70th St., to Edward Corning Co., 145 East 45th St. Archts. est. $430,000. Noted Feb. 3.

N. Y., New York — WAREHOUSE, STORE and GASOLINE STATION — Mogar Realty Co., Inc., c/o C. H. Gillespie, archt., 1170 Bway., general contract 1 and 2 stor‥ and basement, 100 x 108 ft., rein.-con., brick and steel, concrete pile foundation, 606 East Fordham Rd., to Babor-Comeau & Co., Grand Central Terminal Bldg. Archts. est. $175,000.

N. J., Elizabeth—APARTMENT—Lewis Constr. Co., 175 West End Ave., Newark, will build 4 story and basement, 50 x 130 ft., brick and steel, plain foundation, 419-21 Pennington St. $150,000. Work will be done by separate contracts. E. Gerber, 175 West End Ave., Newark, archt.

N. J., Glassboro—DORMITORY—Bd. Institutions & Agencies, Trenton, general contract 3 story and basement, 46 x 168 ft., brick and steel, plain foundation, here, to George H. Evans, Inc., 1416 Vine St., Phila., Pa. Archts. est. $150,000. Noted Aug. 25.

N. J., Hoboken—DEPARTMENT STORE—S. S. Kresge Co., Kresge Bldg., Detroit, Mich., general contract 3 story and basement, 50 x 100 ft., brick and steel, plain foundation, 226-28 Washington St., here, to Kuhn, Smith & Harris, 461 8th St., New York City. Archts. est. $150,000. Noted Aug. 25.

N.J., Kearny (Sta. Arlington)—OFFICE Guilbert & Betelle, archts., 24 Branford Pl., Newark, 5 story and basement, brick and steel, plain foundation, here, to G. A. Fuller Co., 17 5th Ave., New York City, for Congoleum—Nairn, Inc., Belgrove Dr. Archts. est. $150,000. Noted Aug. 18.

N. J., Newark—APARTMENT—I. Gorfman, 301 Goldsmith Ave., will build 5 story and basement, 60 x 110 ft. brick and steel, plain foundation, Osbourne Terrace. $150,000. Work will be done by separate contracts. S. Cohen, 134 Branford Pl., archt.

N. J., Newark—APARTMENT—Lincoln Ave. Holding Corp., 115 Park St., Orange, will build 4 story and basement, 125 x 150 ft. brick and steel, plain foundation, Lincoln St., here. $150,000. Work will be done by separate contracts. R. Bottelli, 45 Branford Pl., archt. Noted Sept. 15.

N. J., Newark—APARTMENT—Delavan Constr. Co., 69 Huntington Terrace, will build 4 story and basement, 75 x 125 ft., brick and steel, plain foundation, 33 Romaine Pl. $150,000. Work will be done by separate contracts. E. Gerber, 786 Broad St., archt. Noted Sept. 15.

N. J., New Brunswick—COMMERCIAL—Pub. Serv. Gas & Electric Co., 80 Park Pl., Newark, 2 story and basement, brick and steel, plain foundation, Albany and

Buildings—Commercial (Continued)

Neilson Sts., here, to G. B. Rule, Inc., 71 John St. Archts. est. $150,000. Noted Sept. 1.

N. J., New Providence—SANATORIUM—Union Co., Elizabeth, carpentry, masonry work and painting Bonnie Burn Sanitorium, here, to C. Heddon Co., 132 Union St., Newark, $424,432; heating and ventilating, also plumbing, to Jaehnig & Peoples, 221-13th Ave., $73,988 and $111,427 respectively.

Pa., Dormont (mail Pittsburgh)—THEATRE—Harris Amusement Co., Davis Theatre Bldg., Pittsburgh, general contract 1, 2 and 3 story and basement, 75 x 100 ft., brick and steel, West Liberty Ave., here, to F. K. Becker, Granden Ave. Archts. est. $200,000. Noted Sept. 15.

Pa., Phila. — APARTMENT — Walnut Lane Apartments, c/o O. R. Perry, archt., 1524 Sansom St., 6 story and basement, 100 x 234 ft., rein.-con., brick and steel, plain foundation, Wayne Ave. and Walnut Lane, to J. M. Yardley, 1700 Walnut St. Archts. est. $800,000.

Pa., Phila.—OFFICE—N. W. Ayers & Son, 3rd and Chestnut Sts., 13 story and basement, 103 x 115 ft., rein.-con., brick and steel, plain foundation, West Washington Sq., to Ketcham & McQuaid, 1029 Brown St. Archts. est. $1,600,000. Noted Dec. 30.

Pa., Phila.—SALE and SERVICE—P. S. Tyre, archt., 114 South 15th St., 2 story, 95 x 118 ft., rein.-con. and brick, plain foundation, 57th and Walnut Sts., to Wark Co., 1660 Walnut St., for Ware Bros., c/o architect. Noted Sept. 15.

Pa., Pittsburgh—OFFICE—Grant Building, Inc., c/o W. J. Strassberger, Farmers Bank Bldg., general contract 35 story and basement, 100 x 127 x 171 ft., brick and steel office building, incl. 5 story and basement ramp garage, Grant St., 3rd and 4th Aves., to Thompson Starrett Co., 250 Park Ave., New York City. Archts. est. $6,000,000. Noted Sept. 8.

Ky., Louisville—BANK and OFFICE—Joseph & Joseph, archts., Francis Bldg., general contract 10 story and basement, 40 x 200 ft., irregular shaped, rein.-con., brick and steel, plain foundation, 4th St., to A. Markham & Co., 432 South Floyd St., for Liberty Insurance Bank, 2nd and Market Sts. Archts. est $800,000. Noted Aug. 18.

O., Cincinnati—APARTMENT—Jefferson Corp., 1010 Schmidt Bldg., 3 story and basement, 100 x 180 ft., brick and rein.-con., plain foundation, Rockdale St., to M. Penker & Son, 123 Valencia St., $150,000. Noted Aug. 4.

Ind., Fort Wayne—OFFICE—Western Gas Constr. Co., 1429 Buchanan St., 2 story, rein.-con., Indiana limestone and brick office building, to Rust Eng. Co., 311 Ross St., Pittsburgh, Pa. Archts. est. $160,000.

Mich., Detroit—APARTMENT—E. H. Gilmer, 2913 West Warren Ave., 4 story and basement, 100 x 165 ft., brick and steel, plain foundation, Fairview Ave., to C. Schollenberger, 4731 Spokane Ave., Archts. est. $150,000.

Mich., Detroit — MERCANTILE—J. L. Hudson Co., Gratiot and Farmer Sts., 16 story and 4 basements, 200 x 220 ft., with tower 418 ft. high, rein.-con., brick, steel and stone, caisson foundation approximately 750,000 sq.ft. floor space, Woodward Ave., to Bryant & Detwiler Co., 2336 Dime Bank Bldg. Noted Sept. 8.

Ill., Chicago — APARTMENT — E. F. Behrens, archt., 605 North Michigan Ave., masonry contract 8 story and basement, 56 x 85 ft., brick, 1426-32 Howard Ave., to H. B. Ryan Co., 500 North Dearborn St., for Berchwood Building Corp., 605 North Michigan Ave. Archts. est. $350,000. Noted Mar. 4.

Ill., Chicago—APARTMENT—H. Zisook, 1209 East 55th St., masonry and carpentry contract 3 story, 100 x 172 ft., brick and stone, 1700-08 Lunt Ave., to L. Rubin, 4958 North St. Louis Ave. Archts. est. $250,000. Noted Aug. 11.

Ill., Chicago—APARTMENT—H. Zisook, 1209 East 55th St., masonry contract 8 story, 78 x 90 ft., brick, 5711-17 Kenwood Ave., to Rune & Son, 6744 Ridgeland Ave. Archts. est. $250,000. Noted Aug. 11.

Ill., Chicago—APARTMENT—E. A. Shilton, 637 North Michigan Ave., 17 story, 42 x 74 ft. apartment, Astor and Goethe Sts., to H. A. McClennan & Co., 307 North Michigan Ave. Archts. est. $600,000.

Ill., Chicago—APARTMENT HOTEL—Birchwood Building Corp., c/o E. F. Behrens, archt., masonry contract 8 story, 56 x 85 ft., fireproof, 1430 Howard St., to H. P. Ryan & Co., 500 North Dearborn St.; carpentry, to E. Johnson; heating, to Progressive Heating Co., 4516 Irving Park Blvd.; plumbing, to Fettes, Love & Sieben, 1426 Irving Park Blvd.; elevators, to Elevator Co. of America, 190 North State St. Archts. est. $450,000.

Ill., Chicago—HOSPITAL—D. G. Wallace, archt., 22 West Monroe St., masonry contract 9 story, 40 x 115 ft., brick, rein.-con. and stone addition to Woodlawn Hospital, 61st St. and Drexel Ave., to A. and E. Anderson Co., 228 North La Salle St.; heating, to C. W. Johnson, Inc., 211 North Des Plaines Ave.; plumbing, to Noble & Thumm, 1065 Addison St., electric wiring, to White City Electric Co., 14 North Franklin St.; plastering to J. J. Brown, 53 West Jackson Blvd., for Woodlawn Hospital, 826 East 61st St. Archts. est. $300,000. Noted Aug. 11.

Ill., Chicago—OFFICE and STORE—E. M. Willoughby, 77 West Washington St., general contract 36 story basement, and 5 story tower, 80 x 109 ft., Madison St. and Michigan Ave., to Henry Ericsson Co., 228 North La Salle St. Noted Sept. 22.

Ill., Harvey—HOTEL and STORE—Zimmerman, Saxe & Zimmerman, archts., 212 East Superior St., Chicago, general contract 7 story, 75 x 125 ft., rein.-con., brick and stone, Center St. between 153rd and 154th Sts., to Fridstein & Co., 111 West Washington St. for P. J. Tilling c/o architects. Archts. est. $300,000. Noted Sept. 15.

Ill., Hillsdale—MEMORIAL and HALL—E. H. Clark, archt., 8 East Huron St., Chicago, 2½ story, brick and stone, here, to Adams Constr. Co., 217 North Clarkson Court, Chicago, for Hillsdale Memorial Building Assn. Archts. est. $150,000. Noted Aug. 18.

Wis., Milwaukee — APARTMENT—Peacock & Frank, archts., 445 Milwaukee St., general contract 8 story and basement, 90 x 180 ft., rein.-con. and brick, plain foundation, 23rd and Wisconsin Sts., to T. Stark & Co., 130 Muskego Ave., for Clarenton Realty Co. Archts. est. $325,000. Noted Sept. 8.

Wis., Milwaukee—WAREHOUSE—Coakley Bros., 450 Prospect St., general contract 8 story and basement, 74 x 150 ft., rein.-con. and brick, plain foundation, 3630 Wisconsin Ave., to Bentley Bros., South Pierce St. Archts. est. $175,000.

Minn., Minneapolis—STORE and OFFICE—P. H. Phillips, 4514 Arden Ave., will build 3 story and basement, rein.-con., brick and stone, 331 5th Ave. S., by day labor. $150,000. P. E. Crosier, 915 New York Life Bldg., archt.

Minn., Minneapolis — WAREHOUSE—Hall Hardware Co., G. E. Hall, pres., 608 3rd St. N., general contract 3 story (ultimately 8 story) and basement, 125 x 150 ft., rein.-con. and brick, 3rd St. North, to James Leck Co., 211 South 11th St. $150,000. Noted Jan. 13.

Mo., Kansas City—DANCE HALL and STORE—T. O. Bright, 31st St. and Prospect Ave., 2 story, rein.-con., brick and terra cotta, 31st St and Gillham Rd., to J. Thompson Constr. Co., Huntzinger Bldg. Archts. est. $200,000.

Mo., St. Louis—GARAGE—J. J. Stedelin, c/o Aegerter & Bailey, archts., 1904 Ry. Exch. Bldg., 1 story and part basement, 75 x 213 ft., rein.-con., brick, and stone, West Pine Blvd., to C. B. McCormack, Columbia Bldg.

Mo., St. Louis—HOTEL—Teich & Sullivan, archts., 814-18 Garrick Bldg., 64 West Randolph St., Chicago, Ill., altering 12 story mezzanine and basement, hotel, and constructing 58 x 100 ft. and 57 x 100 ft. wings connected by 24 x 104 ft. bridge, rein.-con., brick, stone and steel, Locust Blvd., here, to Boaz-Kiel Constr. Co., Ambassador Bldg., for Hotel Jefferson Co., L. T. Hay, pres., 12th St. and Locust Blvd. Archts. est. $2,000,000. Noted May 12.

Tex., Bryan—HOTEL—R. W. Howell, Bryan, 7 story, 51 x 100 ft., rein.-con., brick, stone and steel, Main and 27th Sts., to Bellows-Maclay Constr. Co., Const.-Ind. Bldg., Dallas, for La Salle Hotel. $250,000. Noted Apr. 7.

Tex., Dallas — OFFICE — Southwestern Bell Telephone Co., 11th and Pine Sts., St. Louis, Mo., general contract 16 story and basement, 107 x 175 ft., brick, stone, steel, terra cotta and rein.-con., Akard and Wood Sts., here, to Henger & Chambers, Slaughter Bldg. Archts. est. $2,500,000. Noted June 30.

Tex., Terrell — ADMINISTRATION — State Bd. Control, c/o H. H. Harrington, chn., Austin, general contract 4 story and basement, 50 x 125 ft., rein.-con., brick and steel, State Hospital for Insane, here, to Barnes & McCord, 820 North Beckley St., Dallas, $123,935.

Okla., Vinita—HOSPITAL—State Bd. of Affairs, Capitol, Oklahoma City, 2 story and basement, 88 x 146 ft., rein.-con. and brick, plain foundation, on campus East Oklahoma Hospital, here, to Manhattan Constr. Co., Muskogee, $142,490. Noted Sept. 8.

Calif., Eureka—HOSPITAL—F. M. Kay, clk. Humboldt Co., general contract rein.-con. hospital, to Mercer-Fraser Co., 2nd and Commercial Sts., $289,000; plumbing, to Latourette-Fiscal Co., 907 Front St., Sacramento, $41,960. Noted Aug. 18.

Calif., Hollywood—APARTMENT—T. H. Miller, c/o Architectural Group, headed by R. Neutro, archt., 835 Kings Rd., 13 story and basement, Franklin and Argyle Aves., to State Constr. Co., 707 Financial Center Bldg., Los Angeles, $1,066,000.

Calif., Long Beach — OFFICE — Jergins Trust Co., Pine and Ocean Aves., 3 story, 150 x 150 ft. steel and concrete addition, to F. R. Johnson, 101 Wilshire Blvd., Beverly Hills, approximately $275,000.

Calif., Los Angeles—APARTMENT—H. B. Crown, 5 story and basement, brick, Carondelet St., to Halper & Kagan, 607 Hibernian Bldg. $150,000.

Calif., Los Angeles—BANK and OFFICE—Pacific Southwest Trust & Savings Bank, 565 South Spring St., 6 story and 190 ft. tower, 72 x 110 ft., steel and rein.-con., Hollywood Blvd. and Highland Ave., to Meyer & Holler, Wright & Callender Bldg., $500,000. Noted Aug. 11.

Calif., Los Angeles—HALL OF HUMANITIES—California Institute of Technology, 3 story and basement, 50 x 150 ft., rein.-con. and steel, to W. C. Crowell, 459 South B'way., approximately $185,000.

Calif., Los Angeles—OFFICE—Syndicate now being organized, 6 story and basement, rein.-con., North Vermont Ave., to L. T. Mayo, Black Bldg., approximately $400,000.

Calif., Los Angeles—STORE and OFFICE—Curlett & Beelman, archts., Union Bank Bldg., 3 story and basement, 65 x 140 ft., concrete, 6th and Alvarado Sts., to Baruch Corp., 1015 Lincoln Bldg., for Sun Realty Co., c/o architects. $175,000. Noted Sept. 8.

Calif., Merced—BANK and OFFICE—Bank of Italy, Eddy and Powell Sts., San Francisco, 3 story and basement, rein.-con., 17th and L Sts., to K. E. Parker, 135 South Park St., San Francisco, $195,000. Noted Aug. 11.

Calif., San Francisco — HOTEL — J. Dempniak, 1214 Jones St., will build 6 story and basement, steel and concrete, Jones St. near Eddy St., by day labor and segregated contracts. $150,000. H. C. Baumann, 251 Kearny St., archt.

Calif., San Francisco—OFFICE—A. H. Bergstrom, Call Bldg., will build 3 story and basement, rein.-con., Van Ness Ave. and Jackson St., by day labor and segregated contracts. $550,000. Clausen & Amandes, Hearst Bldg., archts.

Ont., Ottawa—HOTEL—J. S. Archibald, archt., Chateau Laurier Hotel addition, Lideau St., here, to Foundation Co. Ltd., 746 Sherbrooke St. W., Montreal, Que., 1134 Beaver Hall Hill, Montreal, Que., for Canadian Natl. Rys., 230 St. James St., Montreal, Que. Noted Sept. 8.

Buildings—Industrial

Proposed Work

Mass., Brighton (sta. Boston) — FERTILIZER — New England Rendering Co., 4 Abattoir Grounds, plans fertilizer building. $40,000. Engineer and architect not selected.

Mass., Dorchester (br. Boston)—HEATING PLANT and GARAGE—Transit Dept., 1 Beacon St., Boston, having plans prepared 1 story, rein.-con., brick and steel, plain foundation, Fields Corner, here. $100,000. E. R. Springer, Transit Dept., 1 Beacon St., Boston, engr.

Mass., Worcester—GARAGE and STORE—B. I. Coonan, 6 Tahanto Rd., having plans prepared by G. C. Halcott, 32 Franklin St., rein.-con., brick and steel, Pleasant St. $45,000.

Conn., Bridgeport — GARAGE — A. Abriola, 1998 Main St., having plans prepared by J. L. Vannucci, 1024 Main St., 1

Buildings—Industrial (Continued)

story, 100 x 150 ft., rein.-con. and brick, Thompson St. $40,000.

Conn., Meriden—PLANT—Fletcher & Thompson, Inc., archts., 542 Fairfield Ave., Bridgeport, soon lets contract 2 story, 60 x 150 ft., and 75 x 100 ft., brick and timber addition, here, for Bassick Co., Center and Britainia Sts. To exceed $40,000.

N. Y., Harrison—FACTORY—Ballinger Co., archt. and engrs., 100 East 42nd St., New York City, takes bids about Oct. 15, 1 story and part basement, brick and steel, West St., here, for Intertype Corp., 300 Furman St., Brooklyn. $500,000.

Md., Baltimore—PLANT—A. Weiskittel & Son Co., Lombard and 12th Sts., plans 1 story plant addition. $100,000.

Va., Richmond—COKE PLANT—Virginia Domestic Coke Corp., T. E. Pierce, pres., Waterford, plans plant near here. $2,000,000.

Tenn., Chattanooga—PLANT—Star Box & Printing Co., 17th and Chestnut Sts., J. Kain, genl. mgr., plans (1st unit) rein.-con. plant, on 200 x 300 ft. site. $100,000. Total $350,000.

O., Cleveland—FACTORY—Kaffee Hag Co., G. Gund, pres., 1476 Davenport Ave., had plans prepared by C. G. French, engr and archt., Plymouth Bldg., 3 story and basement, 100 x 100 ft., brick and rein.-con., 1476 Davenport Ave. $100,000.

O., Cleveland—FACTORY—Standard Envelope Co., J. H. Altman, pres., 1600 East 30th St., had plans prepared by Christian, Schwarzenberg & Gaeda, 1900 Euclid Bldg., 1 story, 80 x 115 ft., brick and rein.-con. $50,000.

O., Cleveland—FACTORIES—Haberman Provision Co., c/o A. Habermann, secy., 2302 Bway., had plans prepared by Anders & Reimers, engrs. and archts., Erie Bldg., 1 and 3 story, 61 x 180 ft., and 160 x 180 ft., brick, steel and concrete, West 65th St. $125,000.

Ind., Anderson—PICKLING PLANT—Ames Shovel & Tool Co. had plans prepared (3rd unit) 3 story, 35 x 60 ft., brick and steel plant.

Ind., Kokomo—SHEET BAR MILL—Continental Steel Corp., H. Roemer, pres., had plans prepared sheet bar mill addition.

Kan., Manhattan—POWER HOUSE—State Building Comn., H. E. Shrock, bus. mgr., having plans prepared by C. D. Cuthbert, 1415 Jewel St., Topeka, 3 story and basement, 51 x 210 ft. with 83 x 105 ft. wing, rein.-con., brick and steel, here, for the Kansas Agricultural School. $325,000. Noted Jan. 6.

Mo., Clinton—POWER PLANT—Missouri Pub. Serv. Co., c/o Inland Power & Light Corp., 411 North 7th St., St. Louis, soon takes bids 1 story and basement, rein.-con. and brick addition, and installing 5,000 kw. unit, etc. $500,000. Private plans.

Mo., St. Louis—LAUNDRY—Holloran-Klaus Co., c/o P. J. Holloran, 1517 Clark Ave. and O. J. Krieg, 821 Wainwright Bldg., soon lets contract 2 story and basement, 50 x 91 ft., rein.-con., steel and iron addition. $60,000. Noted Sept. 15.

Tex., Beeville—ICE and COLD STORAGE—Central Power & Light Co. soon takes bids enlarging and rebuilding present plant. $100,000.

Tex., Eagle Pass—ICE PLANT—Crystal Ice Factory, c/o A. Kifuri, plans rebuilding ice plant, probably 40 ton capacity, recently destroyed by fire. $45,000.

Tex., Galveston—COMPRESS—Southern Compress Co., 511 37th St., having plans prepared doubling present 20,000 bale capacity plant, 44th and 48th Sts. $75,000. Private plans.

Tex., Galveston—ICE PLANT—T. A. Hunter, 1127 A St., having preliminary plans and surveys made, 50 ton capacity ice plant. $75,000. Private plans.

Tex., Galveston—WIRE and NAIL PLANT—C. S. Porter, et al, 1115-35th St., had plans prepared, (1st unit) 1 story, 310 x 360 ft. metal plant. $50,000. Private plans. Noted Aug. 11.

Tex., Houston—PUBLISHING PLANT—Rein Printing Co., 1108½ Caroline St., soon takes bids 2 story, rein.-con. and brick, Buffalo Dr. $100,000.

Tex., Houston—FACTORY—C. W. Scott Mfg. Co., C. W. Scott, pres., 701-7 Rusk Ave. had plans prepared by J. Finger, 422 Keystone Bldg., 3 story and basement, 119 x 210 ft., rein.-con., brick, tile and stone, near Preston Ave. $175,000.

Tex., Odessa—TORPEDO MANUFACTURING PLANT—Eastern Torpedo Co., c/o D. A. Koonz, mgr., having plans prepared brick, steel and concrete plant, near here. $75,000. Private plans.

Tex., San Antonio—FACTORY—Texas Pecan Shelling Co., c/o E. M. Zerr, 426 South Laredo St., having preliminary surveys made 5 story, shelling factory, incl. cold storage warehouse, etc., over 125,000 sq.ft. floor space, Salado, Monterey, and Comal Sts. $450,000. Private plans.

Tex., Temple—FACTORY—Texas Aero Assn. having plans prepared (1st unit) 45 x 300 ft. fireproof factory. Private plans.

Calif., Los Angeles—LAUNDRY—Peerless Laundry Co., 5826 South Main St., had plans prepared by H. L. Pierce, Wright-Callendar Bldg., 2 story, brick and timber laundry. $60,000. Site withheld.

Calif., San Francisco—CAR SHOPS, etc.—City and San Francisco Co., plan election $400,000 bonds, car shops for railway system; also $40,000 bonds, bus repair shops and garages. M. M. O'Shaughnessy, city engr.

Que., St. John—PLANT—Standard Drain Pipe Co. Ltd., W. C. Trottier mgr., making plans extending plant. $80,000.

Ont., Picton—PULP and PAPER MILL—Northwest Ontario Development Co. Ltd., c/o B. R. Hepburn, plans pulp and paper mill in Sioux Lookout Dist.

Ont Winchester—FURNITURE FACTORY—N. F. Beach plans rebuilding furniture factory, recently destroyed by fire. $200,000 loss.

B. C., Vancouver—GAS PLANT—B. C. Electric Power & Gas Co. Ltd., 425 Cornwall St., plans new 3,000,000 cu.ft. gas holder addition, tankless type, new water gas plant, purifiers, meters, etc. $650,000. J. Keillor, 425 Cornwall St., engr.

Bids Desired

Mass., Boston—SUB-STATION—Oct. 3, by Edison Electric Illuminating Co., 39 Boylston St., 4 story and basement, 80 x 100 ft., brick and stone, plain foundation, 31-33 Hawkins St. To exceed $40,000. Bigelow & Wadsworth, 120 Tremont St., archt.

N. J., West Orange—FACTORY—See "Contracts Awarded."

Miss., Howell—POWER PLANT—See "Buildings—Commercial."

Miss., Water Valley—POWER PLANT—See "Waterworks."

Wis., Kewaunee—FACTORY—See "Contracts Awarded."

Minn., New Prague—POWER PLANT—Oct. 7, by G. Sticha, city clk., remodeling power plant and distribution system, incl. new generating equipment, switchboard, etc. $40,000. J. H. A. Brahtz, 510 Guardian Life Bldg., St. Paul, engr.

Calif., Oakland—NEWSPAPER PLANT—See "Contracts Awarded."

Contracts Awarded

Mass., Jamaica Plain (br. Boston)—CLEANSING PLANT—J. Cohen, c/o Miller & Levi, archts., 46 Cornhill, Boston, 2 story, brick, plain foundation, 3000 Washington St., here, to Hub Constr. Co., 333 Washington St., Boston. Archts. est. $40,000. Noted Sept. 8.

Mass., Roxbury (Sta. Boston)—LAUNDRY—J. MacDonald, 250 Stuart St., Boston, plans 1 story, 85 x 100 ft., rein.-con. and brick addition plain foundation, 78 Langdon St., here, to J. MacDonald Constr. Co., 250 Stuart St., Boston. Archts. est. $40,000.

Mass., Waltham (Ind. br. Boston)—FACTORY—Industrial Tube Corp., H. J. Landon, 35 Lane St., altering and 1 story, 25 x 180 ft., rein.-con. addition, concrete foundation, Lane St. to J. C. Esterbill, 106 Buttonwood St., Dorchester. Architects est. $40,000.

Conn., East Hartford (br. Hartford)—SERVICE GARAGE—Connecticut Auto Parts Co., Connecticut Blvd., 1 story, 60 x 150 ft., rein.-con., brick and steel, Connecticut Blvd., to T. F. Lloyd, 5 Pleasant St. Archts. est. $40,000.

Conn., Springdale—MILL—Stamford Rolling Mills, 1 story, 112 x 215 ft. steel rolling mill, to F. E. Bray Co., 62 Cannon St., Bridgeport. Archts. est. $40,000. Noted Sept. 15.

N. J., West Orange—FACTORY—Ciocco Macaroni Co., Inc., 110 14th Ave., Newark, will build 2 story and basement, brick and steel, plain foundation, Ashland Ave. $40,000. Work will be done by separate contracts. R. Calabuse, 79 Mt. Prospect Ave., Belleville, archt.

Pa., Meadville—ROUND HOUSE—Erie R.R. Co., R. S. Parsons, ch. engr., 50 Church St., New York City, 1 story, irregular shaped, brick and steel extension, here, to Schofield Constr. Co., Schofield Bldg., Cleveland, O. Archts. est. $60,000.

Pa., Phila.—CIGAR FACTORY—A. Freeman, archt., 29 West 34th St., New York City, 8 story and basement, 119 x 125 ft., rein.-con. and brick addition to Bayak cigar factory, plain foundation, 9th and Columbia Sts., to Wark Co., 1660 Walnut St., for Columbia Realty Co., 9th and Columbia Sts. Archts. est. $650,000. Noted Sept.

O., Cleveland—FACTORY—J. Laub Baking Co., 4901 Lorain Ave., 1 story, 35 x ft., brick, steel and concrete, 4901 Lorain Ave., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $40,000.

O., Cleveland—MACHINE SHOP—Standard Saw Mill Co., K. Fox, pres., 2705 East 55th St., 2 story, 50 x 100 ft., brick and steel, 8111 Kinsman Rd., to A. Tepper, 3616 East 146th St. Archts. est. $40,000.

Ind., Indianapolis—MACHINE SHOP and GARAGE—Chevrolet Co., 540 East Washington St., general contract 3 story and basement, 62 x 195 ft., rein.-con. and brick, 552-558 East Washington St., to J. A. Schumaker, 818 East St. Clair St. Archts. est. $85,000.

Wis., Kewaunee—FACTORY—Leyse Aluminum Co., A. Leyse, mgr., will build 2 story, 56 x 97 ft., rein.-con. and brick, plain foundation, here, by day labor. Private plans. Noted Sept. 1.

Minn., Rochester—BAKERY—Rochester Baking Co., general contract, 3 story and basement, 66 x 130 ft., rein.-con., brick, stone and steel, here, to C. Pagenhardt, Rochester. Archts. est. $75,000. Noted Sept. 15.

Mo., St. Louis—ICE STORAGE PLANT—Polar Wave Ice & Fuel Co., 3636 Olive St., 1 story, 91 x 110 ft., rein.-con. and brick, Rutger St., to Gillespie & Daly, 722 Chestnut St. Archts. est. $50,000.

Mo., St. Louis—PACKING PLANT—Laclede Packing Co., 2025 Shenandoah Ave., 2 story, 60 x 79 ft., rein.-con. and brick addition, 2226 McNair Ave., to W. H. Cunliff Constr. Co., 410 North Euclid Ave. Archts. est. $40,000.

Mo., St. Louis—BAKERY—White Baking Co., R. L. White, pres., 1303 Merchants Bank Bldg., Indianapolis, Ind., general contract 1 and 2 story and basement, 150 x 200 ft., brick and steel bakery and stable, 3958 Papin St., here, to Woerman Constr. Co., Syndicate Trust Bldg. $147,850.

Mo., St. Louis—BOILER, TANK and BLACKSMITH SHOPS—Missouri Pacific R.R. Co., Ry. Exch. Bldg., 3 story, 133 x 144 ft., rein.-con. steel and corrugated asbestos, Ewing Ave. and Missouri Pacific R.R. tracks, to Gillespie & Daly, International Life Bldg. Archts. est. $90,000.

Calif., Los Angeles—STORAGE—Ingram Paper Co., 1112 Rio Vista Ave., 1 story and basement, 150 x 162 ft., rein.-con. and steel, 1504 Rio Vista Ave., to J. M. Cooper, 301 Rives-Strong Bldg., $100,000.

Calif., Oakland—NEWSPAPER PLANT—Oakland Post-Enquirer, 1751 Franklin St., will build 1 and 3 story, steel and concrete addition, Franklin St. To exceed $150,000. Work will be done by separate contracts. J. Morgan, Merchants Exch. Bldg., San Francisco, archt.

Calif., San Jose—CANDY FACTORY—O'Brien Candy Co., 30 South 1st St., 3 story and basement, concrete, South 1st St., to R. O. Summers, 17 North 1st St.

Ont., Hamilton—FACTORY—Firestone Tire & Rubber Co., Beach Rd., factory, to Yates Constr. Co., 17 Main St., $250,000. Noted July 28.

Ont., Kitchener—RUBBER FACTORY—Canadian Goodrich Rubber Co., 521 King St. W., general contract 3 story and basement, 100 x 132 ft., concrete, brick and steel addition, to Foundation Co. of Canada, 746 Sherbrooke St. W., Montreal, Que., plumbing and heating, to W. Knell & Co., 45 King St. W. Archts. est. $200,000.

Buildings—Educational, Religious

Proposed Work

Me., Eastport—CHURCH, CONVENT and RECTORY—Church of St. John the Evangelist, J. Sullivan, pastor, having plans prepared by J. J. O'Shaughnessy, 80 Boylston St., Boston, 2 story and basement, brick and limestone church, convent and rectory, plain foundation. $150,000.

Mass., Amesbury—CHURCH—Sacred Heart Roman Catholic Parish, J. H. Cote, pastor, Friend St., having plans prepared by J. G. Morrsette, 575 Essex St., Lawrence, 1 story and basement, 55 x 135 ft., brick, stone and marble, plain foundation, Friend St. $800,000.

Mass., Chicopee—COLLEGE—Academy of Our Lady of Elms, T. O'Leary bishop, having preliminary plans by J. W. Donahue, 1242 Main St., Springfield, probably brick and stone college. $150,000 or more.

Mass., Quincy (Ind. br. Boston)—CHURCH—First Methodist Episcopal

Buildings—Educational, Religious (Cont.)

Church, E. R. Meyers, pastor, 40 Beale St., Wollaston, having preliminary plans by Cleveland & Godfrey, 248 Boylston St., Boston, 1 story and basement, 90 x 110 ft., granite, plain foundation, Beale St., Wollaston Dist. $150,000 or more.

Mass., Weston—SCHOOL—Sisters of St. Joseph, 617 Cambridge St., Brighton, having plans prepared by T. E. Sheehan, 120 Boylston St., Boston, 2 story and basement, brick, plain foundation, here. $150,000.

Conn., East Hartford (br. Hartford)—HIGH SCHOOL—City, c/o P. S. Barnes, supt., East Hartford School Bd., plans Junior High School. $300,000. Engineer and architect not selected.

Conn., Waterbury—CHURCH—West Side Hill Methodist Episcopal Church having plans prepared by Bureau of Architects, 1701 Arch St., Phila., Pa., 3 story, stone, incl. school, West Main St. To exceed $150,000.

N. Y., New York — SCHOOL of COMMERCE—Thompson, Holmes & Converse, archts., 101 Park Ave., takes bids about Nov. 1, for School of Commerce, 122 x 200 ft., Lexington Ave. and 23rd St., for Bd. Trustees, College of City of New York.

N. Y., Oyster Bay—SCHOOL—Bd. Educ. takes bids Oct. 10, 3 story and basement, 193 x 250 ft., brick, plain foundation. $550,000. Tooker & Marsh, 101 Park Ave., New York City, archts. Noted Mar. 4, 1926.

N. J., Boonton—SCHOOL—Bd. Educ., Town Hall, plans 2 story and basement, brick and steel, Maple and Lathrop Ave. $150,000. Engineer and architect not selected.

N. J., Clifton (Ind. br. Passaic)—SCHOOL—Bd. Educ., City Hall, having sketches made by Lee & Hewitt, 152 Market St. Paterson, 2 story and basement, brick and steel addition, plain foundation. $150,000.

N. J., Haledon—SCHOOL—Bd. Educ., Boro Hall, plans 2 story and basement, brick and steel, Barbour St. and Lee Ave. $200,000. Engineer and architect not selected.

N. J., Mays Landing—HIGH SCHOOL—Bd. Educ., Hamilton Twp., A. E. Smith, dist. clk., soon lets contract 3 story and basement, rein.-con. and brick, plain foundation. $250,000. S. H. Vaughn, Guarantee Trust Bldg., Atlantic City, archt. Noted July 21.

N. J., Morristown—HIGH SCHOOL—Bd. Educ., 50 Early St., having plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, 3 story and basement, brick and steel addition, plain foundation. $200,000.

N. J Newark — INDUSTRIAL ARTS SCHOOL — Bd. Educ., City Hall, having revised sketches made by Guilbert & Betelle, 20 Branford Pl., Fawcett School of Industrial Arts, 3 story and basement, 100 x 100 ft., brick and steel, plain foundation, Washington and Academy Sts. $250,000. Noted June 9.

N. J., Newark — SCHOOL — Bd. Educ., Broad and Green Sts., having plans prepared by Guilbert & Betelle, 20 Branford St., 3 story and basement, brick and steel, plain foundation, 120 x 120 ft site, Washington and Academy Sts.

N. J., New Brunswick—SCHOOL—Bd. Educ., Livingston Ave., rejected bids general contract 2 story and basement, 55 x 130 ft., brick and steel, plain foundation, Stone St. $150,000. Will readvertise. A. Merchant, 52 Paterson St., archt. Noted Sept. 1.

N. J., Riverton — SCHOOL — Riverton School Bd., M. C. Boyer, pres., having plans prepared by Simon & Simon, 249 South Juniper St., Phila., Pa., school. $180,000.

N. J., South Plainfield—SCHOOL—Bd. Educ., Plainfield Ave., having plans prepared by G. M. Ricci, 224 Smith St., Perth Amboy 2 story and basement, brick and steel, plain foundation, Hamilton Blvd. $150,000. Noted Sept. 22.

N. J., West Orange—HIGH SCHOOL—Bd. Educ. having plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, Junior High School, 3 story and basement, brick and steel, plain foundation, Eagle Rock Rd. $250,000. Noted Mar. 17.

Pa., Pittsburgh—SCHOOL—Bd. Educ., Fulton Bldg., having plans prepared by E. B. Lee, Chamber of Commerce Bldg., Boys Vocational School, 6 story and basement, irregular shaped, brick and steel. $1,300,000. C. L. Woolridge, Fulton Bldg., engr.

Pa., Scottdale—SCHOOL—Bd. Educ. having plans prepared by W. G. Eckles Co., New Castle, 2 story and basement, irregular shaped, brick and steel addition, here. $150,000.

D. C Wash.—SCHOOL—District Comrs., District Bldg., having plans prepared remodeling and constructing Bryan School addition, D St. between 13th and 14th Sts. S. E., $125,000; Barnard School addition, 5th and Decatur Sts., $175,000; and extending Washington School, Potomac Heights, $85,000.

D. C., Wash.—SCHOOL—District Comrs., District Bldg., having plans prepared and takes bids about Dec. 15, addition to Margaret Murry Washington Vocational School, O St. N. W. $150,000.

D. C., Wash.—SCHOOL—District Comrs., District Bldg., having sketches made 24 room, brick school, 19th St. and Columbus Rd.

Va., Richmond—HIGH SCHOOL, etc.—Voted $775,000 bonds, new high school and enlarging other school buildings. Noted June 23.

La., Winnfield — SCHOOL — Winnfield Parish School Bd., S. E. Sikes, supt., soon takes bids 2 story brick and concrete school. $160,000. H. J. Duncan, 188 Murray St., Alexandria, archt. Noted July 2.

Tennessee—SCHOOLS—State Bd. Educ., P. L. Harned, comr.. Memorial Bldg., Nashville, and Bd. Educ. of various counties having plans prepared by G. Mahan Jr., Amer. Bank Bldg., Memphis, 700 school buildings in various counties. $2,000,000.

O., Cincinnati—CHURCH—Archdiocesan Church, c/o 3rd Lutheran Church, Walnut St., having plans prepared by McGinnis & Walsh, c/o 3rd Lutheran Church, 3 story and basement, brick and rein.-con., plain foundation, 8th and Walnut Sts. $400,000.

O., Lakewood (br. Cleveland)—SCHOOLS—Bd. Educ., G. W. Grill, clk., 1456 Warren Rd., election Nov. 8, $250,000 bonds, 2 story and basement, brick, steel and concrete additions to Roosevelt and Hayes Schools. Engineer and architect not selected.

Mich., Lincoln Park (mail Detroit)—SCHOOLS—Bd. Educ., having plans prepared by Verner, Wilhelm & Molby, Book Bldg., Detroit, three 2 story and basement, rein.-con., brick and steel, plain foundations. $200,000.

Mich., Luddington — CHURCH — Community Congregational Church, W. Pleis, chn. building com., having plans prepared by S. C. Allen, 204 Eddy Bldg., Saginaw, 2 story and basement, 50 x 140 ft., brick and steel, plain foundation, Harrison St. $150,000.

Mich., Luddington — CHURCH—Stearns Memorial Church having plans prepared by S. C. Allen, 1312 South Washington St., Saginaw, 2 story and basement, rein.-con., brick, steel and stone, plain foundation, $200,000.

N. D., Grand Forks — DORMITORY—Company being formed, c/o T. E. Kane, chn. building com., University of North Dakota, takes bids about Oct. 1, 2 story and basement, rein.-con. and brick, on university campus. $150,000. T. B. Wells, 1st Natl. Bank Bldg., archt.

Mo., Kansas City — MUSEUM—Atkins Fund, c/o A. W. Childs, trustee, New England Bldg., having preliminary plans prepared by Wight & Wight, 400 1st Natl. Bank Bldg., fireproof, 44th St. and Rockhill Rd. $600,000.

Mo., St. Louis—ART SCHOOL—Shortridge Galleries, P. Shortridge, 4422 Washington Blvd., had plans prepared by E. E. Christopher, 1221 Louderman Bldg., 3 story and basement, 60 x 245 ft., rein.-con., brick and terra cotta art school, incl. gallery and auditorium, 4426 Washington Blvd. $200,000.

Mo., St. Louis—SCHOOL—Central Institute for Deaf, 818 South Kingshighway, takes bids probably in October, 3 and 4 story and basement, 80 x 216 ft., rein.-con., brick and stone addition. $300,000. W. B. Ittner, 911 Locust St., archt. Noted June 30.

Tex., Canyon—COLLEGE—West Texas Teachers College, c/o J. A. Hill, pres., takes bids about Oct. 15, 3 story, rein.-con. and brick, plain foundation. $275,000. E. F. Rittenberry, 301 Blackburn Bldg., Amarillo, archt.

Tex., Dallas—CHURCH—Highland Park Presbyterian Congregation, c/o W. A. Alexander, pastor, 3805 Mockingbird Lane, having plans prepared by M. Lemmon, 407 Const.-Ind. Bldg., rein.-con., brick and stone church. $250,000.

Calif., Gridley—HIGH SCHOOL—Trustees Gridley Union High School Dist., having revised plans prepared by Davis-Pearce Co., Grant and Weber Sts., Stockton, and soon takes new bids, high school, here. Former bids rejected. Noted June 9.

Bids Desired

Mass., Long Island (br. Boston)—DORMITORY—Oct. 5, by City of Boston, Institutions Dept., City Hall, plans 4 story and basement, rein.-con. and brick, plain foundation at Long Island Hospital, here, $300,000. J. H. Ritchie & associates., 250 Stewart St., Boston, archts. Noted Sept. 8.

Mass., West Roxbury (sta. Boston) — SCHOOL — Oct. 6, by City of Boston, Schoolhouse Dept., 2 story and basement, brick, granite and limestone, plain foundation, Russett Rd., Robert Gould Shaw Dist., here. $220,000. M. A. Dyer, 1 Beacon St., Boston, archt. Noted Sept. 15.

Conn., Hartford—TEMPLE—Oct. 6 (extended date), by C. R. Greco, archt., 11 Beacon St., Boston, 1 and 2 story and basement, 80 x 190 ft., and 100 x 125 ft., brick and stone, plain foundation, Farmington Ave., here, for Congregation Beth Israel, c/o architect. To exceed $150,000.

Conn., West Hartford (br. Hartford — SCHOOL — Town taking bids and open same about Oct. 10, B. I. Miller, town mgr., 2 story and basement, 62 x 205 ft., brick and steel, Elmwood Sect. $250,000. R. F. Barker, 43 Farmington Ave., Hartford, archt.

N. Y., Brooklyn—COLLEGE—Oct. 5, by Brooklyn Law School of St. Lawrence University, 305 Washington St., 8 story, 100 x 125 ft. college, 373 Pearl St. $1,000,000. Mayers, Murray & Phillips, 2 West 47th St., New York City, archts.

N. J., Weehawken—SCHOOL—Oct. 6, by Bd. Educ., at Hamilton School, general contract 3 story and basement, 100 x 140 ft., brick and steel, plain foundation, Louisa Pl. and 2nd St. $350,000. W. Weir, 254 Summitt Ave., Union City, archt. Noted June 23.

Ga., Atlanta—SCHOOLS—Oct. 10, by Bd. Educ., at office G. L. Preacher & Co., archts., Wynne-Claughton Bldg., Hoke Smith Junior High School addition, Frank L. Stanton, Capitol View, Ormewood and Davis Schools. Noted Aug. 4.

Mich., Mt. Clemens—SCHOOL—Oct .14, by G. J. Haas, archt., 2331 Park Ave., Detroit, 3 story and part basement, rein.-con., brick and steel, plain foundation, incl. gymnasium, Dist. 1, here, for Bd. Educ., A. Palmer, secy., R. F. D. 4. $200,000.

Ill., Chicago — TEMPLE — Coolidge & Hodgdon, archts., 134 South La Salle St., and Loebb & Schlossman, associated archts., taking bids temple, 111 ft. high, 200 x 207 ft., fireproof, ruble and cut stone trimming, Cornelia St. and Sheridan Rd., for Temple Sholom, E. Brandt, secy., 30 North La Salle St., $1,600,000. Noted June 10.

Contracts Awarded

Me., Orono — AGRICULTURAL — University of Maine, F. S. Young, 2 story and basement, brick, addition, plain foundation, to Otto Nelson Co., 194 Exchange St., Bangor Archts. est. $165,000. Noted July 28.

Mass., Quincy (br. Boston) — HIGH SCHOOL — City, T. T. McGrath, mayor, City Hall, 2 story and basement and stone, plain foundation, Junior High School addition Daniel Webster School at Newcomb Pl., to Frankini Bros., 30 Mystic Ave., Medford, $273,641. Noted Aug. 18.

R. I., Edgewood (sta. Providence) — SCHOOL—Bd. Educ. plans 2 story and basement, 70 x 120 ft., brick and stone, plain foundation, Beachmont Ave. to A & C Constr. Co., 156 Jastram St., Providence, $104,700. Architects est. $150,000. Noted Sept. 6.

N. Y., Glendale (mail Brooklyn)—SCHOOL—Bd. Educ., 500 Park Ave., New York City, general contract P. S. 113, to John Kennedy & Co., 1133 Bway, New York City, $283,000; heating, to Almirall & Co., Inc., 52 Park Pl., New York City, $37,750. Noted Sept. 25.

N. Y., Lockport — CHURCH — First Methodist Church, H. E. Brees, chn. building com., 22 Main St., church, East Ave. and Washburn St.. to Bartram & Stapleton, Akron, O. Archts. est. $175,000. Noted July 28.

N. J., Jersey City—NORMAL SCHOOL—Bd. Educ., State House, Trenton, general contract 2 story and basement, 70 x 240 ft., brick and steel, plain foundation, Hudson Blvd. between Culver and Audubon Aves., here, to C. Cona Building Co., 382 Haledon Ave., Paterson, $420,000; plumbing, to W. P. Dunn, Inc., 42 Mechanic St., Newark, $26,619; heating, to R. G. Maupai, 73 South St., $45,300. Grand total $491,919. Noted Aug. 25.

N. J., Pensauken (mail Merchantville)—VOCATIONAL SCHOOL—Camden Co., Court House, Camden, general contract vocational school, Browning Rd. near here, to G. Bachman, 19 North 30th St., Camden, $680,708; plumbing, to W. J. Newell & Son, 2035 Arch St., Phila., Pa., $57,828; and heating, to H. Knecht, West Collinwood, $96,430. Grand total $834,966. Noted Sept. 8.

Pa. Pittsburgh — CONVENT — Link, Weber & Bowers, archts., Craig St., general contract 2 and 3 story and basement,

Buildings—Educational, Religious (Cont.)

irregular shaped, brick, Ross Twp., to Henry Busse Co., West End Bank Bldg., Main St., for School Sisters of St. Frances. Archts. est. $150,000. Noted Sept. 22.

La., New Orleans—SCHOOL—Bd. Educ., additions to Kruttschnitt School, to R. McCarthy, Canal-Commercial Bldg., $134,100.

O., Cleveland—SCHOOL and POWER HOUSE — St. Charles Roman Catholic Church, N. F. Monaghan, Wilbur Ave. and Ridge Rd., 2 story and basement, brick, steel and concrete, Wilbur Ave., to W. J. Schirmer Co., 1720 Euclid Ave. Archts. est. $150,000.

O., Hamilton—CHURCH—Pilgrim Baptist Church Congregation, 1 story and basement, brick and concrete, Chestnut St., to E. Poston approximately $138,000.

Mich., Holland — SCHOOL — Fractional Dist. 9, general contract 2 story and basement, rein.-con., brick and stone, plain foundation, Dist. 9, to H. Postman, 47 West 17th St. Archts. est. $175,000.

Ill., East St. Louis—SCHOOL—Bd. Educ., J. S. Pidgeon, secy., 600 St. Louis Ave., general contract 2 story and basement, 66 x 131 ft., rein.-con., brick and stone, 74th and State Sts., to J. I. Gedney Constr. Co., 1461 Hall St., $105,037. Noted Sept. 15.

Minn., Northfield—MENS DORMITORY—Carlton College, D. C. Cowling, pres., general contract 2 story and basement, rein.-con., brick and stone, to Paul Steenberg Constr. Co., 914 Builders Exch. Bldg., St. Paul. Archts. est. $250,000.

Kan., Hutchinson—HIGH SCHOOL—Bd. Educ. 4 story and basement, 150 x 160 ft., rein.-con., brick and stone addition, plain foundation, to Stamey Constr. Co., Hutchinson, $190,600.

Tex., San Angelo—COLLEGE—Bd. Educ. c/o S. W. March, pres., Junior College, 2 story, rein.-con., brick and stone, to Thomas-Sable Constr. Co., 1320 Masonic St., Dallas, $155,500. Noted Aug. 11.

Wash., Seattle — CHURCH — Building Com. University Christian Church, 1 story and basement, 103 x 240 ft., rein.-con., East 50th and 15th Sts., to Western Constr. Co., Seaboard Bldg., $225,000. Noted Feb. 17.

Calif., Belvedere—SCHOOL—Bd. Educ., general contract school addition, to Witt & Chute, 2516 West Santa Barbara Ave., Los Angeles, $112,750. Noted June 23.

Federal Government Work

Proposed Work

Ky., Louisville—Bear Trap Leaves—U. S. Engineer Office, rejected bids 2 sets beartrap leaves for Lock 6, in Ohio River. Will readvertise.

Ill., Great Lakes (mail Waukegon)—Road Repairs—Spec. 5495—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans road repairs at Naval Training Station, here.

Tex., Amarillo — Helium Production Plant—Helium Div. Bureau Mines, Dept. Commerce R. A. Cattell, engr., Wash., D. C., plans fireproof helium production plant, new machinery, etc., here. $500,000.

Bids Desired

Pennsylvania — Dredging — Oct. 21, by U. S. Engineer Office, Phila., dredging Marcus Hook and Bellevue Ranges.

Pa., Phila.—Dredging—Spec. 5509—Oct. 4, by Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging at Pier 8, Navy Yard, here.

Md., Camp Meade—Barracks—Oct. 19, by Constructing Quartermaster, 3 barracks buildings, here; adv. E. N.-R. Sept. 29. Noted Sept. 2, 1926 under "Wash., D. C."

N. C., Cape Hatteras—Compass Station—Spec. 5451—Oct. 12, by Bureau Yards & Docks, Navy Dept., Wash., D. C., compass house, at Naval Compass Station, here; adv. E. N.-R. Sept. 29.

N. C., Wilson—Post Office—Oct. 10, by Treas. Dept., at office Supervising Archt., Wash., D. C., supplemental bids constructing U. S. Post Office, here.

Ky., Louisville—Beartrap Leaves—Oct. 14, by U. S. Engineer Office, P. O. 27, fabricating and erecting beartrap leaves for Dam 52, Ohio River; adv. E. N.-R. Sept. 29.

Ill., Great Lakes (mail Waukegon) — Electrical Distribution System—Spec. 5480—Oct. 12, by Bureau Yards & Docks, Navy Dept., Wash., D. C., electrical distribution system at Naval Training Station, here. Noted Sept. 22.

Tex., Fort Sam Houston (sta. San Antonio)—Barracks—Oct. 22, at office Constructing Quartermaster, 1 Infantry Batallion and 1 Infantry Regimental Headquarters Barracks, here; adv. E. N.-R. Sept. 29. Noted Sept. 15 under "San Antonio."

Wash., Fort Lewis—Barracks—Oct. 21, by Constructing Quartermaster, rein.-con. and brick barracks building; adv. E. N.-R. Sept. 29.

Wash., Fort Lewis—Hospital—Oct. 24, by Constructing Quartermaster, hospital at Fort. Lewis; adv. E. N.-R. Sept. 29.

Wash., Port Orchard—Dredging—See "Contracts Awarded."

Calif., Pasadena—Remodeling—Oct. 24, by Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

Bids Received

Vt., Burlington—Roof Repairs—Treas. Dept., at office Supervising Archt., Wash., D. C., Sept. 15, roof repairs at U. S. Veterans Hospital, here, from E. Van Noorden Co., Roxbury, Mass., $8,448.

N. Y., Albany—Dredging—U. S. Engineer Office, Army Building, 39 Whitehall St., New York City, dredging in Hudson River, here, from Natl. Dredge & Dock Co., 60 Beaver St., New York City, $0.1848 per cu.yd., total $585,834. Noted Sept. 1.

N. Y., Buffalo—Interior Changes—Treas. Dept., at office Supervising Archt., Wash., D. C., Sept. 15, interior changes at U. S. Marine Hospital, here, from W. A. Walker, 24 Vernon Pl., $13,970. Noted Aug. 25.

N. Y., Fort Wadsworth (mail Staten Island)—Barracks—Constructing Quartermaster, 39 Whitehall St., New York City, Sept. 26, infantry battalion barracks at Fort Wadsworth, from Waldemar Mortenson Co., 405 Lexington Ave., New York City. $304,400. Noted Sept. 8.

Pa., Johnstown — Remodeling — Treas. Dept., at office Supervising Archt., Wash., D. C., Sept. 20, remodeling mailing platform, installing new lift, lighting fixtures, etc. at U. S. Post Office, here, from T. W. Cissell, Bethlehem, $4,800. Noted Sept. 1.

D. C., Wash.—Power Plant and Heating Building — Bureau Standards, Sept. 20, power and heating building, from A. L. Smith & Co., 2525 Penn. Ave., $157,200. Noted Sept. 15.

D. C., Wash.—Additional Stories—Treas. Dept., at office Supervising Archt., Wash., D. C., Sept. 21, additional stories, etc. to United States Liberty Loan Building, from Skinker & Garrett, 1416 F St. N. W., $183,597; extending elevators and installing 2 electric elevators, from Haughton Elevator & Machine Co., Vermont Bldg., $8,000 and $12,790 respectively. Noted Sept. 1.

Miss., Gulfport — Roads and Walks — U. S. Veteran's Hospital Arlington Bldg., Wash., D. C., roads and walks at U. S. Veteran's Hospital, here, from Robertson & Mills, Gulfport, $14,800. Noted Sept. 1.

Ky., Louisville—Hospital Improvements—Treas. Dept., at office Supervising Archt., Wash., D. C., Sept. 21, improving driveway Marine Hospital, here, from Smythe & Co., Wash., D. C., $1,593, other work $4,869. Noted Sept. 8.

Ind., Columbus — Remodeling — Treas. Dept., at office Supervising Archt., Wash., D. C., Sept. 15, remodeling U. S. Post Office, here, from Dunlap & Co., Columbus, $2,770.

Contracts Awarded

Me., Bar Harbor—Altering—Spec. 5406—Bureau Yards & Docks, Navy Dept., Wash., D. C., altering radio building, at Naval Radio Station, Otter Cliffs, here, to E. K. Whitaker, 122 Cottage St., $35,456. Noted Sept. 15.

Mass., Nantucket — Radio Compass Station—Spec. 5441—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairing buildings at Naval Radio Station, here, to Olson & Appleby, 6 South 2nd St., New Bedford.

Conn., New Haven—Water Supply—Treas. Dept., at office Supervising Archt., Wash., D. C., water supply at U. S. Post Office, Custom and Court House, here, to J. L. Powers, Bennettsville, S. C., $13,570.

N. Y., Buffalo—Superstructure—U. S. Engineer Office, concrete superstructure on Bird Island Pier, to F. G. Hanssel, Ellicott Sq., $73,746. Noted Aug. 11.

N. J., Millville—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., constructing U. S. Post Office, here, to W. Petersen, 305 Wilkinson Bldg., Omaha, Neb. $71,500. Noted Sept. 8.

Ala., Montgomery—Barracks—Quartermaster General, Wash., D. C., constructing barracks at Maxwell Field, here, to O. P. Woodcock, 302 Lutz Bldg., Jacksonville, Fla., $104,175. Noted Aug. 22.

Ala., Selma — Remodeling Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here, to A. C. Samford, Montgomery, $22,650. Noted Sept. 15.

Miss., Vicksburg—Levee—Third Mississippi River Dist., P. O. Box 404, 442,000 cu.yd. north bank Arkansas River, to Harvey Brown Constr. Co., North Little Rock, Ark., $228,480.

Tenn., Memphis—Earthwork—U. S. Engineer Office, constructing 385,000 cu.yd. earth work in tributary stream of Mississippi River, Pieces 1-7, to J. P. and S. L. Hunter, New Madrid, Mo., $30,433; Pieces 8-15, to Douglas, Buchanan & Cross, Shreveport, La., $91,314; Pieces 16-19, to W. R. Diener & W. T. Burks, Biscoe, Ark., $19,314; Pieces 21, to Wells Bros., Helena, Mont., $10,125; and Pieces 21-23, to W. W. Meachan & Co., Laconia, Ark., $19,580. Grand total $170,787.

Tenn., Nashville—Gates—U. S. Engineers Office, 4 steel lock gates for locks in Cumberland River, to Nashville Bridge Co., foot Shelby Ave., $35,910. Noted Sept. 22.

Ky., Louisville—Lock Gates—U. S. Engineer Office, P. O. Box 72, constructing Lock Gates 51 and 53, in Ohio River, here, to Independent Bridge Co., Neville Island, Pittsburgh, Pa., $107,400. Noted Aug. 4.

Ill., Great Lakes (mail Waukegon)—Chimney—Spec. 5413—Bureau Yards & Docks, Navy Dept., Wash., D. C., chimney at U. S. Naval Training Station, here, to Alphons Custodis Chimney Constr. Co., 140 South Dearborn St., Chicago, $10,865. Noted Sept. 18.

Ill., Sterling—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Post Offices, here, to P. E. Kosman Co., Sterling, $10,150. Noted Sept. 8.

Ia., Shenandoah — Post Office — Treas. Dept., at office Supervising Archt., Wash., D. C., extending post office, here, to Anderson Constr. Co., Council Bluffs, $16,167. Noted Sept. 8.

Wyoming — Road—Bureau Pub. Rds., Denver, Colo., grading, etc. 0.32 mi. Devils Tower Bridge Project, Crook Co., here, to C. M. Smith, Thermopolis, $28,500. Noted Sept. 15.

Missouri—Dikes—U. S. Engineer Office, 428 Customhouse, St. Louis, 6,000 lin.ft. piling dikes or hurdles in Mississippi River, at Missouri Sister Island, to Woods Bros. Constr. Co., 132 South 13th St., Lincoln, Neb., $267,173. Noted Sept. 22.

Tex., Austin — Attic Changes — Treas. Dept. at office Supervising archt., Wash., D. C., attic changes at U. S. Post Office, here, to H. M. Hargrave, Govalle St., $3,609. Noted Sept. 8.

Ariz., Tucson—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., general contract buildings and oil tanks, etc., here, to Sumner Sollitt Co., 307 North Michigan Ave., Chicago, Ill., $787,134; electrical work, to H. P. Foley Co., 1001 Exchange Bldg., Miami, Fla., $56,610; plumbing and heating systems, to T. E. Thomas Plumbing & Heating Co., Ogden, Utah, $224,000; refrigerating machinery, to York Products Corp., 5051 Santa Fe Ave., Los Angeles, Calif., $23,496; and concrete chimney to Weber Chimney Co., 1452 McCormick Bldg., Chicago, Ill., $4.490. Grand total $1,095,730. Noted Sept. 15.

Wash., Port Orchard—Dredging—U. S. Engineer Office, Seattle will dredge bay, here, by own forces. Former bids rejected. Noted Aug. 18.

Calif., Livermore—Walks—U. S. Veterans Bureau, Wash., D. C., walks, curbing, guttering, etc. at U. S. Veterans Hospital 102, here, to Kaiser Paving Co., Amer. Bank Bldg., Oakland, $27,580. Noted Sept. 8.

Calif., San Diego—Boiler—Spec. 5345—Bureau Yards & Docks, Navy Dept., Wash., D. C., boiler at Naval Station, here, to Allen Bros., Los Angeles, $8,077. Noted Sept. 8.

Calif., San Diego—Garage—Spec. 5363—Bureau Yards & Docks, Navy Dept., Wash., D. C., garage at nurses quarters, Naval Training Station, here, to M. H. Golden, 3612 Texas St., San Diego, $4,611. Noted Sept. 15.

Calif., San Francisco—Dredging—Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging in Naval Receiving Ship Station here, to Amer. Dredging Co., 255 California St., at $0.35 per cu.yd.

Unclassified

Proposed Work

Submarine Conduit, etc.—Boston, Mass.—Edison Electric Illuminating Co., Boylston St., plans submarine conduit, terminal houses and extending Fender Pier in Mystic River at Malden Bridge. $25,000 or more. Private plans.

Ball Field, etc. — Franklin, Mass. — Veterans of Foreign Wars, Walker Parker

Unclassified (Continued)

Post 662, c/o F. H. Nelson, post commander, City Library Bldg., Lowell, plans base ball field, tennis courts, club house, and camping grounds, at Wards Hill, here. $25,000 or more. Engineer not selected.

Grade Crossing Elimination—Pittsburgh, Pa.—See "Streets and Roads."

Grade Crossing Elimination—Warren, O.—Trumbull Co. plans overhead bridge eliminating dangerous railroad crossing, at Levittsborg. R. G. Taylor, Warren, engr.

Grade Separation — Hamtramck (br. Detroit), **Mich.**—City and Michigan Central Ry. Passenger Terminal Sta., Detroit. J. F. Deimling, ch. engr., and Grand Trunk R.R., Detroit, J. A. Heaman, ch. engr., made plans depression tracks and elevating street, also steel bridges encased in concrete on concrete abutments, Joseph Campau Ave. $789,000. J. J. Mitchell, 85 1 Jos. Campau Ave., city clk.

Field House—Lawrence, Kan.—Kansas University, F. C. Allen, athletic dir., making preliminary plans 400 x 640 ft., rein.-con. and brick field house, 14,500 seating capacity. C. D. Cuthbert, Topeka.

Subway and Elevated Railway — St. Louis, Mo.—Illinois Traction System, c/o Illinois Power & Light Corp., 231 South La Salle St., Chicago, Ill., making preliminary surveys subway and elevated railway connecting freight depot, 12th St. and Lucas Ave. with new approach to McKinley Bridge over Mississippi River, on Salisbury St., here. J. A. Hooke, c/o owner, consult. engr.

Oil Pipe Line—Texas—Magnolia Petroleum Co., 1009 Fannin St., Houston, making surveys 140 mi. 8 in. welded pipe line from Riddle Station in Comanche Co. to tank farm near Midland. $2,000,000. Work may be done by own forces. Private plans.

Natural Gas Pipe Line—Texas—Houston Pipe Line, Scanlon Bldg., Houston, plans 36 mi. 8 in. pipe line from Freeport to Wadsworth, $100,000; and 28 mi. natural gas pipe line from Refugio to White Point, $75,000. Private plans.

Airport—Brownsville, Tex.—Chamber of Commerce, et al, plan airport on 300 acre site, near here. $100,000. Private plans.

Townsite—Odessa, Tex.—G. Harris & L. D. Wall making plans developing townsite of Lindbergh, in Crane Co., near here, incl. streets, sewerage system, waterworks, lights, etc. $150,000. Private plans.

Warehouse and Dock—Texas City, Tex.—Texas City Terminal Ry. Co., H. J. Mikeska, genl. mgr., having plans prepared rebuilding warehouse and dock at Pier "B" recently destroyed by fire. $200,000.

Traffic Signal, etc.—Laredo, Tex.—See "Bridges."

Transmission Line — Oklahoma — Oklahoma Gas & Electric Co., Insurance Bldg., W. R. Emerson, secy., made plans 20 mi. 13,200 volt transmission line from Ardmore to oil fields. $30,000. Byllesby Eng. Co., 231 South La Salle St., Chicago, Ill., engrs.

Lighting System — Alhambra, Calif.—Plans ornamental lighting system on portions 1st and 2nd Sts., etc. To exceed $25,000.

Canal Lining — Byron, Calif.—Byron-Bethany Irrigation Dist. voted $39,000 bonds, lining canals.

Wharf—Los Angeles, Calif.—Plans 65 x 352 ft., concrete and timber wharf at Berth 178. $157,700. A. H. Spear, 1017 Figueroa St. engr.

Swimming Pool—Huntington Park, Calif.—Plans election $25,000 bonds, swimming pool. $25,000.

Bids Desired

Track Work—Boston, Mass.—Oct. 19, by Transit Dept., 1 Beacon St., special track work from Ashmont Sta., Dorchester Rapid Transit. T. F. Sullivan, chn.

Heating, etc. — Creedmoor (mail Floral Park), **N. Y.**—Oct. 26, by Comrs. Dept. Mental Hygiene, Capitol, Albany, heating, sanitary, electrical and equipment work, etc. Building "N," Dining Hall, South Group, Creedmoor Div. Brooklyn State Hospital, here; adv. E. N.-R. Sept. 29.

Stairs, etc.—New York, N. Y.—Oct. 7, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., constructing stairs and platforms at track pits in main repair shop, also stairways and stairway landings at coal pockets in Lenox Ave and 148th St. Yard, Agreement GH.

Heating, Sanitary Work, etc.—Wingdale, N. Y.—Oct. 26, by commissioner Dept. Mental Hygiene, Capitol, Albany, heating, sanitary work, electrical and equipment work, kitchen equipment, etc. Building "D," Dining Hall, Harlem Valley State Hospital, here; adv. E. N.-R. Sept. 29.

Subway Stations—Phila., Pa.—Oct. 7, by Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., station finish Columbia, Susquehanna-Dauphin, North Phila. and Allegheny Stations, Broad Street Subway, Contr. 182.

Wharf—Alabama—Oct. 17, by State Docks Comn., State Office Bldg., Mobile, 1,150 ft. wharf and foundations for coal and material handling plant.

Overhead Crossing—Mississippi—Oct. 5, by Comrs. Hinds Co., Court House, Jackson, overhead crossing on Federal Aid Project 184-A, between Jackson and Vicksburg, 42,180 lb. reinforcing, 18,840 lb. structural steel, etc. H. C. Dietzer, Jackson, engr.

Traffic Signals, Lighting System, etc.—Cincinnati, O.—Oct. 4, by Rapid Transit Comrs., City Hall, traffic signals, etc., incl. 41 standards, etc. $28,720, and ornamental lighting system $76,934, both for Central Parkway. F. L. Raschig, City Hall, engr. Noted Sept. 22.

Transmission Line—Texas—See "Contract Awarded."

Oil Pipe Line—Texas—See "Contracts Awarded."

Natural Gas Distributing System—San Antonio, Tex.—Miller-Darrough, 1211 West Mistletoe St., taking bids natural gas distributing system, incl. mains, laterals and connections, etc., in 98 acre sub-division on Vance-Jackson Rd. $30,000 (materials).

Lighting System—Los Angeles, Calif.—Oct. 3, by Bd. Supervs. Los Angeles Co., ornamental lighting system on Ramona Blvd. et al. $25,533. G. W. Jones, Hall of Records, engr.

Bids Received

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., constructing Route 45, Part Bway.-4th Ave. Rapid Transit R.R., Sect. 1, from Marcus Contg. Co., 305 Bway., $4,740,000; Sect. 2, from Moranti & Raymond, 42 Bway., $5,735,000; and Sects. 1 and 2 (combined) from M. Blumenthal, 55 West 42nd St., $10,000,000. Noted Sept. 1.

Contracts Awarded

Gymnasium and Swimming Pool—Keene, N. H.—State, c/o W. E. Mason, State Normal School 1 story and balcony, 60 x 125 ft., brick, stone and steel gymnasium, also concrete swimming pool at State Normal School, to G. W. Scott, 28 Washington St.

Footings, etc.—Brookline (br. Boston), **Mass.**—Cadillac Motor Car Co., 2860 Clark St., Detroit, Mich., footings and excavation for sales and service building, Commonwealth Ave. and Essex St., here, to F. T. Ley Co. Inc., Statler Bldg., Boston. Engrs. est. $25,000. Noted Sept. 8 under "Buildings—Industrial."

Rapid Transit Station—Dorchester (br. Boston), **Mass.**—Transit Dept., 1 Beacon St., Boston, Shawmont Station, 1 story, brick, steel and concrete, here, to White Constr. Co., 11 Beacon St., Boston, $23,434. Noted Sept. 8.

Swimming Pool — Gloucester, Mass. — Owner, c/o H. L. Kennedy, archt., 80 Boylston St., Boston, plans concrete swimming pool, water filters, pump, concrete walks, stone wall, etc., here, to Parker & Welsh, 22 Chapman St., Beverly. Noted July 14.

Foundation and Footings — Worcester, Mass. — Worcester City Hospital, Pub. Building Dept., City Hall, C. A. Drew, supt., concrete foundation and footings for brick and steel nurses home, Jacques Ave., to J. J. Roberts, 4 Wall St., $25,000. Noted Feb. 17.

Golf Course, etc. — Waterbury, Conn. — Waterbury Country Club, I. W. Day, 111 Main St., golf course and club house, to Tracy Bros. Co., 52 Benedict St. Archts. est. $50,000. Noted Aug. 18.

Bridge Plazas—New York and New Jersey—Port of New York Authority, 75 West St., New York City, plazas for Tottenville-Perth Amboy Bridge, at Tottenville, N. Y. $226,738, and at Perth Amboy N. J., to T. J. M. Contg. Co., 120 South 2nd St., New Brunswick, N. J., $388,214; for Elizabeth Howland Hook Bridge, at Howland Hook, N. Y., to Frederick Snare Corp., 144 Liberty St., New York City, $98,615, and at Elizabeth, N. J., to Triest Contg. Co., 247 Park Ave., New York City, $80,970. Grand total $44,537. Noted Aug. 25 under "Bridges."

Station Finish — Brooklyn, N. Y. — Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, station finish for portion 14th St.-Eastern Rapid Transit R.R., here, to Charles Meads & Co., 217 West 14th St., New York City, $188,213. Noted Sept. 1.

Tunnel, etc.—New York, N. Y.—Hispanic Society of America, 620 West 156th St., connecting tunnel and boiler room, 620 West 156th St., to Marc Eidlitz & Sons, 41 East 42nd St. Archts. est. $150,000.

Centrifugal Sump Pumps, etc.—Phila., Pa.—Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., electrically operated centrifugal sump pump in 6 drainage sumps of Broad Street Subway, Contr. 178, to W. V. Pangborne & Co., 1927 West Montgomery St., $55,538. Noted Aug. 25.

Wharf—Richmond, Va.—Director Pub. Wks., concrete wharf, to A. J. Saville, Electric Bldg., $79,423. City will furnish material. Noted Sept. 15.

Natural Gas Pipe Line etc.—Texas—Southern Gas & Utilities Co., c/o Frost Bldg., San Antonio, to N. A. Saigh & Co., 511 Builders Exch. Bldg., San Antonio, 118 mi. 8 and 10 in. natural gas pipe line from San Antonio to New Braunfels, Seguin and San Marcos approximately $650,000, natural gas distributing system incl. mains, laterals, and booster unit, at Seguin approximately $50,000, natural gas distributing system, 8- and 10-in. mains, pumping or booster plant, at New Braunfels approximately $100,000, and natural gas distributing system, incl. mains laterals and booster station at San Marcos approximately $40,000. Grand total approximately $840,000.

Oil Pipe Line—Texas—Ozark Pipe Line Co., Shell Bldg., St. Louis, Mo. (Div. of Roxana Petroleum Co., Arcade Bldg., St. Louis, Mo.), will lay approximately 35 mi. probably 8 in. pipe line from Pecos Co. Fields to McCamey, here, by day labor. $10,000. Private plans.

Transmission Line — Texas — Central Power & Light Co., c/o Frost Bldg., San Antonio, will build high power transmission line from Taft to Gregory and Portland, by own forces. $35,000. Private plans.

Street Lighting System — Bellingham, Wash.—Street Lighting system in 20 blocks streets in business district, to Ne Page-McKenna Co., Armour Bldg., Seattle, $55,655.

Lighting System—Culver City, Calif.—Ornamental lighting system on Coolidge and Berryman Aves., etc., to A. C. Rice, 1957 Santee St., Los Angeles, $26,240.

Gas Works—Belleville, Ont.—City, 68 ft. diam. steel gas holder, 70 ft. high, to Horton Steel Wks., Bridgeburg; and concrete foundations, to W. H. Patterson, 211 Dufferin St. Engrs. est. $50,000.

Wharf—Cap Chat, Que.—Dominion Govt., Ottawa, extending wharf, here, to Ludger Lemiex Ltd., Ste. Marie, $31,000.

Materials

Bids Desired

Cast Iron Pipe—Paterson, N. J.—Oct. 3, by Boro of Haledon, Haledon Firehouse, class B cast iron pipe and fittings, at River St. Station, Erie R.R., here; adv. E. N.-R. Sept. 29.

Frogs, Crossings, etc.—Phila. Pa.—Oct. 4, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., frogs, crossings, gage rods, etc., Contr. 112-1927; tie plates, joint bars, Contr. 113-1927; guard rail clamps, Contr. 114-1927; and structural steel for bridges, Contr. 115-1927.

Wheels—Phila., Pa.—Oct. 5, by C. W. Walsh, purch. agt., Pennsylvania R.R. Co., 15 North 32nd St., West Phila., wheels, Contr. 116-1927.

Gravel—Mer Rouge, La.—Oct. 13, by Police Jury Morehouse Parish, Bastrop, 3,337 cu.yd. washed gravel, here, for Mer Rouge-Johnson Rd. J. L. White, parish engr.

Cable, Pipe, etc.—Chicago, Ill.—Oct. 7, by M. J. Kennedy, comr. Gas & Electricity, City Hall, lead covered cable, standard black iron pipe, electric traffic signals, reflectors and lenses, etc.

Pipe—Shawnee, Okla.—Mayor and Council in market 10,000 lin.ft. ¾ in. heavy lead water pipe.

Pipe—Hanford, Calif.—Oct. 10, by D. C. Williams, city clk., 3,500 ft. 4 in. bell and spigot c.i. pipe.

Contracts Awarded

Asphaltic Cement—Brooklyn, N. Y.—J. J. Byrne, pres. Brooklyn Boro, Boro Hall, 400,000 gal. asphaltic cement, to Warner Quinlan Co., 26 Beaver St., New York City, $25,360; 4,800 cu.yd. binder stone and 2,500 tons limestone, to New York Trap Rock Corp., 250 Park Ave., New York City, $9,312 and $12,168 respectively; 4,000 cu. yd. asphalt sand, to Ryan, Buckley & Hickey, Inc., 66 Court St., $3,880. Grand total $50,720. Noted Sept. 1.

See proposal advertising on page 112

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Bridge—Chicago, Ill.

Bids were opened by Sanitary District of Chicago, 910 South Michigan Ave., July 28, for constructing substructure for Crawford Avenue Bridge, from (A) Underground Constr. Co., 130 North Wells St., (awarded contract); (B) Warner Constr. Co., 111 North Dearborn St.; (C) Contracting & Materials Co., 42 East Pearson St.; (D) Fitzsimons & Connell Dredge & Dock Co., 10 So. LaSalle St.; (E) Great Lakes Dredge & Dock Co., 104 So. Michigan Ave. The unit bids are as follows:

	A	B	C	D	E
Miscellaneous (lump sum)	$25,000.00	$15,000.00	$25,000.00	$33,500.00	$29,500.00
Cofferdams (lump sum)	156,000.00	150,000.00	200,000.00	205,000.00	265,448.00
7,500 cu.yd. excav. for piers	4.25	5.00	4.50	6.00	5.50
600 cu.yd. tamped fill under piers	4.00	5.00	3.00	3.50	4.50
4,000 cu.yd. excav. of spoil banks	1.90	1.50	2.00	3.00	3.25
1,000 cu yd. additional excavation in channel	3.00	6.00	3.50	2.00	2.00
4,350 cu.yd. concrete	16.60	18.60	22.00	33.00	31.50
30 cu.yd. cement mortar	40.00	20.00	25.00	40.00	35.75
480,000 lb. reinforcement steel	.05	.05	.07	.08	.075
92,000 lb. structural steel, rods, bolts, etc	.10	.09	.11	.11	.12
1,800 cu.ft. solid rock and boulders in sub-piers	1.00	1.00	1.00	1.00	1.00
10,000 lb. steel linings in sub-piers	.10	.15	.20	.15	.15
35,000 cu.ft. sub-piers above —50.0	1.50	2.00	1.75	2.00	2.10
24,000 cu.ft. sub-piers below —50.0	2.00	2.50	2.50	2.25	2.30
4,100 ft. b.m. creosoted oak	300.00	300.00	200.00	250.00	275.00
1,710 lin.ft. creosoted oak piles	1.70	1.50	2.00	1.50	1.60
Totals	$439,922	$468,385	$541,510	$623,760	$674,899

Engineering News-Record, Issue of Sept. 29, 1927.

Flood Control—Los Angeles, Calif.

Bids were opened by Board of Supervisors of Los Angeles County Flood Control Dist., Hall of Records, July 5 (lowest 3 and highest), for constructing Puddingstone Dam and appurtenant structures, from (A) H. W. Rohl, 727 West 7th St.; (B) Kaiser Paving Co.; (C) Stewart & Welch Construction Co.; (D) Thomas Haverty Co. The unit bids are as follows:

	A	B	C	D
30,000 cu.yd. stripping for embankments	$0.50	$0.44	$0.44	$0.75
25,000 cu.yd. excav. for spillway and outlet conduit trenches and all open cut excavation	.75	1.10	.80	1.50
100 cu.yd. excav. in tunnel and gate shaft	20.00	15.00	10.00	16.00
350,000 cu.yd. placing earth fill in dam No. 1	.43	.44	.49½	.79
220,000 cu.yd. placing earth fill in dams 2 and 3	.43	.44	.49½	.79
2,000 cu.yd. placing plain concrete (with exception of shaft and tunnel)	9.00	10.88	7.50	10.00
5,500 cu.yd. placing reinforced concrete (with exception of shaft and tunnel)	10.00	10.67	8.50	11.00
350 cu.yd. placing reinforced concrete in shaft and tunnel	25.00	15.45	25.00	25.00
290,000 sq.ft. placing concrete 4 in. lining on face of dam	.15	.1144	.12	.13
3,000 lin.ft. placing tile drains	1.00	.34	.40	.50
20,000 lb. placing valves and gates	.05	.054	.10	.05
5,000 lb. placing miscellaneous metal work	.10	.07	.10	.05
Totals	$410,000	$414,759	$425,350	$641,600

Engineering News-Record, Issue of Sept. 29, 1927.

Cleaning and Covering Channel—Syracuse, N. Y.

Bids were opened by Board Contract & Supply, City Hall, Aug. 15, for cleaning channel and constructing rein.-con. cover over Harbor Brook from Richmond Ave. to State Fair Blvd., from (A) J. H. Corbett, Jr., S. A. & K. Bldg.; (B) C. T. Hookway; (C) Bird & Street; (D) Mondo Constr. Co. The unit bids are as follows:

	A	B	C	D
Cleaning channel (lump sum)	$1,500.00	$800.00	$3,500.00	$3,800.00
3,385 cu.yd. reinf. conc. cover	14.35	13.70	19.00	25.00
128,300 lb. reinforcing steel	.06	.06	.06	.06
5 manholes	50.00	60.00	50.00	75.00
1 manhole rebuilt	200.00	40.00	75.00	25.00
1,617 ft. BM. grillage beams and plans	200.00	80.00	60.00	75.00
25,000 lin.ft. timber piles	.35	.58	.45	.75
2 walk and stairs railings	250.00	400.00	190.00	125.00
Cinder walk and guard rail (lump sum)	100.00	200.00	80.00	200.00
100 cu.yd. extra excav	2.25	1.00	2.00	2.00
Totals	$70,998	$72,093	$88,708	$117,123

Engineering News-Record, Issue of Sept. 29, 1927.

Channel Wall—Lockport, Ill.

Bids were opened by Sanitary District of Chicago, 910 South Michigan Ave., Chicago, for constructing main channel wall, Contr. No. 3, from (A) Green & Sons Co., 6 North Michigan Ave., Chicago; (awarded contract); (B) H. E. Culbertson Co., Cleveland; (C) Central Dredging Co., Chicago; (D) Great Lakes Dredge & Dock Co., Chicago. The unit bids are as follows:

	A	B	C	D
5,000 cu.yd. excav	$3.00	$3.00	$1.50	$1.42
500 cu.yd. excav	6.00	6.00	4.50	1.42
13,000 cu.yd. concrete removed	5.00	7.00	9.00	6.05
5,000 cu.yd. concrete removed	10.00	11.00	13.00	6.05
2,000 cu.yd. concrete removed	20.00	14.00	37.50	7.05
500,000 lb. reinf. steel	0.08	0.08	0.06	0.09
18,000 cu.yd. conc. difference of mixtures	18.00	19.00	18.00	23.75
5,000 cu.yd. conc. difference of mixtures	24.50	27.00	18.00	27.90
2,000 cu.yd. conc. difference of mixtures	50.00	27.00	34.50	51.00
5,000 sacks additional cement	1.00	1.00	0.90	1.05
2,000 lin.ft. hand railing	1.50	2.00	6.00	4.50
Removal of trestle and foot-bridge (lump sum)	2,000.00	2,000.00	1,500.00	8,000.00
Totals	$769,500	$774,000	$797,750	$867,060

Engineering News-Record, Issue of Sept. 29, 1927.

UNIT PRICES ***Continued on page 174a***

How to Save on the Final Cost of Wood Floor Finishing

LIGNOPHOL

Costs 1½ Cents* per ☐ foot of floor space

* *including labor*

Other methods cost

from 3 to

5 Cents per ☐ foot of floor space

THE charts above show the first cost of wood floor finishes. Including labor cost, Lignophol is from 50% to 75% lower than staining and shellacing (or varnishing).

As Lignophol is easily applied with a long-handled brush the labor cost is reduced to the minimum. The material alone costs but 1 cent per square foot.

The U. S. Forest Products Service says linseed oil does not protect. Shellac and varnish are surface treatments only and wear off.

Lignophol penetrates the wood, filling the cells and fibres and producing smooth, hard and dustless floors that last for years.

Lignophol is furnished in four standard colors: Natural; (for preserving the natural beauty of a new floor), Light Brown, Medium Brown and Dark Brown (for improving appearance of older floors).

Be sure to use Lignophol—the great life saver for wood, and save expensive floors (new or old) from splintering, rotting, or drying out. THE FIRST COST IS THE ONLY COST!

L. SONNEBORN SONS, Inc., 114 Fifth Avenue, New York

Other Sonneborn Life Savers for Buildings

LAPIDOLITH

The original concrete floor hardener. Adds years to the life of concrete floors. This liquid chemical compound is applied like water, with a brush. Hardens overnight. Does away with dust and cracks.

CEMCOAT

This paint stays white when others turn yellow. Can be washed again and again. Adheres to brick or concrete as easily as wood. Send for samples.

HYDROCIDE

A complete line of water and dampproofing products for walls, copings, foundations.

Mail this Coupon

MAIL THIS COUPON TODAY

L. SONNEBORN SONS, Inc., 114 Fifth Ave., New York

Please send me, without obligation, demonstration samples and literature on:—Lapidolith ......; Lignophol ......; Cemcoat ......; Hydrocide Colorless ...... (Check products that interest you.)

Name ....

Address ....

Company ....

Position ....

E.N.R.9

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Flood Control—Los Angeles, Calif.

Bids were opened by Board of Supervisors of Los Angeles County Flood Control Dist., Hall of Records, July 5, (lowest three and highest) for Puddingstone Dam Project, channel and appurtenant structures, from (A) Ross & Donovan, Hollywood Bldg.; (B) Sidney Smith; (C) John C. Gist; (D) Charles H. Johnson. The unit bids are as follows:

DIVERSION DAM AND APPURTENANT WORKS

	A	B	C	D
70,000 cu.yd. earth fill in dams	$0.55	$0.65	$0.62	$0.54
64,000 sq.ft. placing 4-in. concrete facing on dam	.094	.1185	.15	.12
900 cu.yd. placing concrete in cutoff wall of dam and water cutoff strips under contraction joints	6.20	11.85	11.50	12.87
3,600 cu.yd. placing loam covering on top of concrete lining	.75	.90	1.00	1.15
1,800 cu.yd. placing reinforced concrete in spillway at dam	8.40	11.85	10.50	16.32
2,000 cu.yd. placing reinforced concrete in gate structure and outlet transition	12.44	12.75	12.00	16.32
100 cu.yd. placing reinforced concrete in outlet conduit	15.98	12.85	17.00	20.00
300 lin.ft. placing double 2-in. pipe railing at diversion works	.20	.60	1.00	1.00
52,000 lb. placing radial gates and operating mechanism at dam	.015	.02	.04	.05
Totals	$95,234	$116,324	$113,930	$128,119

CHANNEL—RECTANGULAR

	A	B	C	D
14,000 cu.yd. placing reinforced concrete in rectangular channel section	$11.25	$10.45	$10.00	$11.72
100,000 cu.yd. excavation	.43	.4895	.42	.40
375,000 sta. yd. overhaul	.02	.025	.02	.02
500 lin.ft. placing metal pipe railing on road bridges	.15	.60	1.00	1.00
2,000 lin.ft. placing tile drains	.20	.05	.50	1.00
170 cu.yd. placing reinforced concrete railroad bridges	32.00	13.00	20.00	16.77
Totals	$213,915	$207,235	$194,400	$216,930

TRAPEZOIDAL

	A	B	C	D
4,500 cu.yd. placing reinforced concrete in rectangular section, from Diversion Dam to Foothill Blvd.	$12.15	$10.95	$11.00	$12.72
7,000 cu.yd. placing reinforced concrete lining in open trapezoidal section, Foothill Blvd. to Outlet	8.70	9.96	9.50	14.00
2,000 cu.yd. placing reinforced concrete in concrete bridges over trapezoidal section	12.44	12.00	15.00	18.00
113,500 cu.yd. excavation for entire channel	.48	.485	.50	.52
500,000 sta.yd. overhaul	.02	.025	.02	.02
500 lin.ft. placing metal pipe railing	.15	.60	1.00	1.00
2,000 lin.ft. placing drains	.20	.05	.50	1.00
Totals	$205,410	$210,942	$214,250	$262,760

Engineering News-Record, Issue of Sept. 29, 1927.

Reservoir Covers—St. Louis, Mo.

Bids were opened by City, June 21, (lowest three and highest) for constructing reinforced-concrete covers for four 275x600-ft. water storage reservoirs at Bissells Point Water-Works Station, from (A) F. A. Stiers, Garrison Ave. and Magazine St., (awarded contract); (B) Dunham Constr. Co., Chemical Bldg.; (C) Frazier-Davis Constr. Co., Arcade Bldg.; (D) Ratermann Bldg. & Contg. Co., 1943 St. Louis Ave. The unit bids are as follows:

	A	B	C	D
15,500 cu.yd. conc.	$16.00	$16.10	$16.85	$53.00
2,370,000 lb. rein. steel	.04	.042	.04	.03
7,000 lb misc. iron and steel	.06	.10	.10	.10
Masonry removal and finish on coping (lump sum)	3,500.00	1,500.00	3,500.00	1,500.00
Drains and sewers (lump sum)	2,000.00	800.00	2,000.00	900.00
100 tons hydrated lime	16.00	13.50	15.00	20.00
Totals	$350,320	$353,440	$363,675	$897,700

Engineering News-Record, Issue of Sept. 29, 1927.

Road—Houston, Tex.

Bids were opened by City, July 6, (lowest three and highest) for clearing, grubbing and grading Clinton Road from Kress St. to 69th St. Bridge Approach, from (A) F. H. Berry, Houston, (awarded contract); (B) J. M. Griswolds Sons; (C) Brown & Root; (D) A. M. Arnold & Co. The unit bids are as follows.

	A	B	C	D
65 sq. clearing	$7.50	$15.00	$12.50	$25.00
65 sq. grubbing	20.00	30.00	25.00	25.00
48,000 cu.yd. excavation	.28	.275	.30	.80
2,000 manhour extra work, labor	.35	.25	.45	.40
1,000 teamhour extra work, teams	.75	.60	.85	.90
Totals	$16,677	$17,225	$18,588	$43,350

Engineering News-Record, Issue of Sept. 29, 1927.

Street Improvement—San Luis Obispo, Calif.

Bids were opened by Supervisors of San Luis Obispo County (lowest three and highest) for improving streets in Monterey Heights, from (A) I. L. Ryder, San Jose; (B) Warren Constr. Co., Oakland; (C) Peninsular Paving Co., San Francisco; (D) Jones & King, Hayward. The unit bids are as follows:

	A	B	C	D
23,000 cu.yd. excav	$1.35	$1.42	$1.36	$1.42
2,400 cu.ft. conc. (wall)	.70	.72	.80	.70
4,500 lb. reinf. steel	.06	.06	.06	.06
11,900 ft. curb and gutter	1.30	1.28	1.38	1.40
1,170 ft. conc. curb	.90	.85	.98	1.00
27,300 sq.ft. conc. pavement	.24	.25	.261	.27
112,500 sq.ft. 2½ in. asph. base, 1½ in. Warrenite surf	.22	.225	.242	.26
5,600 ft. vit. sewer, 6 in	1.50	1.30	1.00	.90
5,000 ft. vit. sewer, 4 in	.90	.87	.70	.75
130 T's on 6 in. sewer	1.00	1.10	1.75	1.00
15 manholes	100.00	90.00	95.00	90.00
3 lampholes	18.00	20.00	25.00	18.00
4,400 ft. 4 in. wr. steel pipe	2.16	2.00	2.00	2.10
380 ft. 3 in. wr. steel pipe	1.50	1.60	1.55	1.60
2,500 ft. ¾ in. galv. ser. pipe	.60	.60	.72	.65
18 1-way hydrants	90.00	92.00	91.25	92.00
17 gate valves, 4 in	22.00	25.00	24.00	25.00
2 gate valves, 3 in	18.00	20.00	21.00	20.00
Pump house with pump, motor and equipment (lump sum)	2,500.00	2,400.00	2,500.00	3,000.00
100 ft. conc. and corr. culv	3.25	3.30	3.90	3.95
1,160 ft. 1½ in. conduit	.33	.33	.34	.33
1,160 ft. conductor, lead covered	.14	.15	.16	.14
160 ft. conduct., R.C.D.B.	.14	.14	.16	.14
8 electroliers	150.00	150.00	145.00	150.00
Totals	$113,605	$113,743	$114,185	$118,141

Engineering News-Record, Issue of Sept. 29, 1927.

Constr. News pags 174a

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Plant, Richmond, Va., Du Pont Rayon Co., plans $8,000,000 to $10,000,000.

Club and office, Chicago, Ill., High Noon Club (Masons') plans, $5,000,000.

Reservoir, etc., Rifle, Colo., Hunter Mesa Irrigation Co., plans, $3,000,000.

Waterworks, San Francisco, Calif., Spring Water Valley Co., plans, $2,231,950.

Apartment, Chicago, Ill., R. S. De Goyler & Co., archts., prepared plans and soon takes bids for **W. C. Bannerman & Co.,** $2,000,000.

Church and hotel, New York, N. Y., Tillion & Tillion, archts., soon lets contract for Manhattan Congregational Church, $2,000,000.

Sewers, Troy, N. Y., J. M. Caird, chemist, preparing report, $2,000,000.

Excavation, etc., Edinburg, Tex., Hidalgo Co., Water Control & Impvt. Dist. 6, soon takes bids, $1,600,000.

Lodge, Seattle, Wash., B.P.O.E. 92, soon lets contract, $1,500,000.

Memorial, Lincoln City, Ind., Lincoln Union Executive Com., having plans prepared, $1,265,000.

Hospital, Kansas City, Mo., Schloss Memorial Hospital, having sketches made, **$1,250,000.**

Store, Hammond, Ind., Kaufman Wolf, soon lets contract, $1,250,000.

Road improvement, Centerville, Tex., Leon Co., making plans, $1,149,473.

Club and hotel, Redondo Beach, Calif., Redonda Beach Lodge of Elks, having sketches made, $1,000,000.

Apartment, East Orange, N. J., J. B. Peterkin, archt., takes bids about Nov. 1, for Thirty Nine Prospect Street Corp., $1,000,000.

Auditorium, Seattle, Wash., Bd. Pub. Wks., soon takes bids, $1,000,000.

High school, Glendale, Calif., Glendale Union High School Dist., having plans prepared, $1,000,000.

Bids Desired

High school, Trenton, N. J., Bd. Educ., taking bids general contract, $3,000,000.

Bids Received

Shops, New York, N. Y., Bd. Transportation from Eastern Constr. Co., $4,170,000.

Dredging, Los Angeles, Calif., U. S. Engineers Office, from San Francisco Bridge Co., $1,239,000.

Contracts Awarded

Apartment, Chicago, Ill., Powhattan Building Corp., general contract to C. B. Johnson & Son, Inc., archts. est., $2,500,000.

Theater, San Francisco, Calif., Capitol Co., to Macdonald & Kahn, approximately $2,000,000.

Office, Minneapolis, Minn., Yeates Building Co., general contract to Madsen Constr. Co., archts. est., $1,750,000.

Hospital, Brooklyn, N. Y., Cord & Hewitt, archts., for St. John's Hospital, to W. Kennedy Constr. Co., $1,600,000.

Hotel, New York, N. Y., M. Kurzrock, will build by separate contracts, $1,600,000.

University, Los Angeles, Calif., University of California, to J. C. Bannister, $1,494,816.

School, Chicago Ill., Bd. Educ., to H. A. Hanson Constr. Co., $1,029,677.

Apartment, New York, N. Y., Arezzo Corp., to T. E. Rhoades Co., archts. est., $1,000,000.

Classified Index of Bids Wanted

Waterworks

Bids close		*See Eng. News-Record*
Oct. 7	New York, N. Y.	Oct. 6
Oct. 10	Eupora, Miss.	Sept. 29
Oct. 11	Lake Forest, Ill.	Sept. 22
Oct. 11	Pittsburgh, Pa.	Oct. 6
Oct. 14	Long Island City, N. Y.	Oct. 6
Oct. 15	Devine, Tex.	Oct. 6
Oct. 17	Fort Smith, Ark.	Sept. 29
Oct. 17	Mount Kisco, N. Y.	Oct. 6
	Adv. Sept. 29 and Oct. 6.	
Oct. 19	Newark, N. J.	Sept. 29
	Adv. Sept. 29 and Oct. 6.	
Oct. 25	St. Louis, Mo.	Sept. 29
Oct. 26	Parkersburg, W. Va.	Oct. 6
	Adv. Oct. 6.	
Nov. 30	New Orleans, La.	Oct. 6
	Adv. Oct. 6.	

Sewers

Oct. 6	Pittsburgh, Pa.	Oct. 6
Oct. 7	Chester, Pa.	Sept. 22
Oct. 7	Parma (br. Cleveland), O.	Oct. 6
Oct. 10	Des Moines, Ia.	Oct. 6
Oct. 13	Chickasha, Okla.	Oct. 6
Oct. 13	Boston, Mass.	Oct. 6
Oct. 14	New York, N. Y.	Oct. 6
Oct. 18	Perham, Minn.	Sept. 29
Oct. 19	Houston, Tex.	Sept. 15
Oct. 21	New Orleans, La.	Aug. 25
	Adv. Aug. 25 to Oct. 6.	
Oct. 24	Mamaroneck, N. Y.	Oct. 6
	Adv. Oct. 6.	
Oct. 31	Dayton, O.	Sept. 29
Nov. 1	Birmingham, Ala.	Oct. 6
Nov. 15	Delphos, O.	Sept. 15
Nov. 20	**Canton, O.**	**Sept. 8**

Waste Disposal

Nov. 10	**Richmond, Va.**	**Oct. 6**
	Adv. Oct. 6.	

Bridges

Oct. 7	Connecticut	Oct. 6
Oct. 9	Ohio	Sept. 22
Oct. 10	Hershey, Neb.	Sept. 22
Oct. 10	Seattle, Wash.	Sept. 22
Oct. 10	New Jersey	Sept. 29
Oct. 10	Marengo, Ia.	Oct. 6
Oct. 10	Carrier, Okla.	Oct. 6

Bids close		*See Eng. News-Record*
Oct. 11	Peekskill, N. Y.	Sept. 29
	Adv. Sept. 29 and Oct. 6.	
Oct. 13	Dayton, O.	Sept. 22
Oct. 13	Bastrop, La.	Sept. 29
Oct. 14	Ashland, Kan.	Sept. 29
Oct. 14	New York and New Jersey	Oct. 6
	Adv. Oct. 6.	
Oct. 14	Greenfield, Okla.	Oct. 6
Oct. 15	New Philadelphia, O.	Oct. 6
Oct. 17	Newark, N. J.	Oct. 6
	Adv. Sept. 29 and Oct. 6.	
Oct. 31	Buffalo, N. Y.	Sept. 29
	Adv. Sept. 29 and Oct. 6.	
Nov. 3	Chicago, Ill.	Sept. 29

Dams

Oct. 10	Rye, N. Y.	Sept. 29
	Adv. Sept. 29 and Oct. 6.	

Excavation, Drainage, Irrigation, Levees, River and Harbor

Oct. 14	Carrollton, Ill.	Oct. 6
Oct. 15	Grass Valley, Calif.	Oct. 6
Oct. 19	New Orleans, La.	Oct. 6
Nov. 3	Louisiana	Oct. 6
	Adv. Oct. 6.	

Streets and Roads

Oct. 7	New York	Sept. 22
	Adv. Sept. 22 to Oct. 6.	
Oct. 7	Pittsburgh, Pa.	Oct. 6
Oct. 8	New Martinsville, W. Va.	Oct. 6
Oct. 8	Lewisburg, W. Va.	Oct. 6
Oct. 9	Paris, Ark.	Sept. 29
Oct. 9	Ohio	Sept. 22
Oct. 10	Weston, W. Va.	Oct. 6
Oct. 10	Birmingham, Ala.	Sept. 15
Oct. 10	Birmingham, Ala.	Sept. 22
Oct. 10	New Jersey	Sept. 29
Oct. 10	California	Sept. 29
Oct. 10	Houston, Tex.	Sept. 29
Oct. 10	Colorado	Oct. 6
Oct. 10	Iowa	Oct. 6
Oct. 11	Crafton, Pa.	Oct. 6
Oct. 11	Oklahoma City, Okla.	Oct. 6
Oct. 11	Buffalo, N. Y.	Oct. 6
Oct. 11	Brooklyn, N. Y.	Oct. 6
Oct. 11	St. George, N. Y.	Oct. 6
Oct. 11	Wisconsin	Oct. 6
Oct. 11	Nebraska	Oct. 6
Oct. 11	Minot, N. D.	Oct. 6

Bids close		*See Eng. News-Record*
Oct. 11	Great Bend, Kan.	Sept. 15
Oct. 11	Washington	Sept. 22
Oct. 11	Louisiana	Sept. 29
Oct. 11	Massachusetts	Sept. 29
Oct. 11	Seminole, Okla.	Oct. 6
Oct. 12	Alabama	Sept. 22
Oct. 12	Baltimore, Md.	Oct. 6
Oct. 12	San Benito, Tex.	Oct. 6
Oct. 13	Austin, Tex.	Oct. 6
Oct. 13	Wellington, Kan.	Sept. 22
Oct. 14	Grenada, Miss.	Oct. 6
Oct. 14	Pennsylvania	Sept. 29
	Adv. Sept. 29 and Oct. 6.	
Oct. 14	New York, N. Y.	Oct. 6
Oct. 14	Brooklyn, N. Y.	Oct. 6
Oct. 15	Anderson, Ind.	Sept. 29
Oct. 15	Hinckley (br. Medina), O.	Sept. 22
Oct. 15	Dodge City, Kan.	Sept. 29
Oct. 15	New Philadelphia, O.	Oct. 6
Oct. 17	San Diego, Calif.	Oct. 6
Oct. 17	New Jersey	Oct. 6
	Adv. Sept. 29 and Oct. 6.	
Oct. 17	Michigan	Sept. 29
Oct. 18	Louisiana	Oct. 6
Oct. 18	West Virginia	Oct. 6
Oct. 18	North Carolina	Oct. 6
Oct. 18	Sedan, Kan.	Sept. 29
Oct. 18	Ocilla, Ga.	Oct. 6
Oct. 18	Minnesota	Oct. 6
Oct. 19	New Kensington, Pa.	Oct. 6
Oct. 20	Louisiana	Oct. 6
Oct. 20	Michigan	Sept. 29
Oct. 24	Michigan	Sept. 29
Oct. 25	Washington	Oct. 6
Oct. 25	Hutchinson, Kan.	Oct. 6
Oct. 28	Kentucky	Oct. 6
Nov. 1	Birmingham, Ala.	Oct. 6

Buildings—Commercial

Oct. 10	New York, N. Y.	Oct. 6
Oct. 11	Liberty, Tex.	Sept. 29
Oct. 11	Brooklyn, N. Y.	Sept. 29
Oct. 12	Fairview, Okla.	Oct. 6
Oct. 13	White Plains, N. Y.	Sept. 29
Oct. 14	Bristol, Conn.	Oct. 6
Oct. 15	Indianapolis, Ind.	Oct. 6
Oct. 15	Port Arthur, Tex.	Sept. 22
Oct. 15	San Angelo, Tex.	Sept. 29
Oct. 17	New York, N. Y.	Sept. 22
Oct. 17	San Francisco, Calif.	Oct. 6
Oct. 18	California	Oct. 6
Oct. 18	Cincinnati, O.	Sept. 29

See proposal advertising on page 151

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Eliminating Repairs and Maintenance Costs

TRENTON WATER WORKS, Trenton, N. J., has been using Leadite for making joints in c. i. bell and spigot water mains for a great many years with entire satisfaction.

They have laid nearly 75 miles of c. i. pipe of various sizes with Leadite joints.

Trenton has very good paved streets and they have never had to dig up a Leadite joint for repairs during all the time they have been using Leadite. They consider this excellent performance for Leadite joints.

They find the use of Leadite has reduced to a minimum repairs and maintenance costs.

Trenton Water Works has always found Leadite joints efficient and economical.

They keep a check on their distribution system by water waste surveys.

During the severe winter of 1917-18 Trenton Water Works had over 2000 frozen services. Many of these services were connected to mains laid with Leadite joints. They had no difficulty in thawing, with electrical apparatus, services connected with mains which were laid with Leadite joints.

Mr. Alvin Bugbee is Superintendent of the Trenton Water Works.

**Specify
and use
LEADITE
It saves at least 75%**

**Be sure
it is
LEADITE
and accept
no imitations**

***The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.***

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Bids close		See Eng. News-Record
Oct. 19	Brooklyn, N. Y.	Oct. 6
Oct. 20	New Orleans, La.	Oct. 6

Buildings—Educational, Religious

Oct. 7	Valley View, Pa.	Oct. 6
Oct. 8	Hartford, Conn.	Oct. 6
Oct. 10	Atlanta, Ga.	Sept. 29
Oct. 10	West Liberty, W. Va.	Oct. 6
Oct. 11	Muncie, Ind.	Oct. 6
Oct. 11	Trenton, N. J.	Oct. 6
Oct. 13	Rutland, Vt.	Oct. 6
Oct. 13	Chicago, Ill.	Oct. 6
Oct. 14	Mt. Clemens, Mich.	Sept. 29
Oct. 17	Cleveland Heights (Warrensville P. O.), O.	Oct. 6
Oct. 19	Amenia, N. Y. Adv. Sept. 15 to Oct. 6.	Sept. 15

Federal Government Work

Bids close		See Eng. News-Record
Oct. 10	Dredging—Norfolk, Va.	Sept. 15
Oct. 10	Post Office—Wilson, N. C.	Sept. 29
Oct. 10	Clearing Site—Denver, Colo.	Oct. 6
Oct. 11	Earthwork—St. Louis, Mo. Adv. Sept. 29 and Oct. 6.	Oct. 6
Oct. 11	Pump—Bedford, Mass.	Sept. 22
Oct. 11	Canteen Building—Northport, N. Y.	Sept. 15
Oct. 12	Compass House—Cape Hatteras, N. C. Adv. Sept. 29 and Oct. 6.	Sept. 29
Oct. 12	Electrical Distribution System—Great Lake (mail Waukegon), Ill.	Sept. 29
Oct. 14	Beartrap Leaves—Louisville, Ky. Adv. Sept. 29 and Oct. 6.	Sept. 29
Oct. 14	Wash Houses—Camp Perry (br. Port Clinton), O.	Oct. 6
Oct. 14	Heating System—Springfield, Mo.	Oct. 6
Oct. 14	Heating System—Fayetteville, Ark.	Oct. 6
Oct. 14	Heating System—Corinth, Miss.	Oct. 6
Oct. 14	Heating System—Memphis, Tenn.	Oct. 6
Oct. 19	Barracks—Camp Mead, Md. Adv. Sept. 29 and Oct. 6.	Sept. 29
Oct. 19	Post Office—Akron, O.	Sept. 22
Oct. 20	Dredging—Oakland, Calif.	Oct. 6
Oct. 20	Barracks—Camp Devons, Mass. Adv. Sept. 29 and Oct. 6.	Oct. 6
Oct. 21	Elevator—Portsmouth, N. H.	Oct. 6
Oct. 21	Barracks—Fort Lewis, Wash. Adv. Sept. 29 and Oct. 6.	Sept. 29
Oct. 21	Remodeling—Pasadena, Calif.	Sept. 29
Oct. 21	Dredging—Pennsylvania	Sept. 29
Oct. 22	Barracks—Ft. Sam Houston (sta. San Antonio), Tex. Adv. Sept. 29 and Oct. 6.	Sept. 29
Oct. 24	Hospital—Fort Lewis, Wash. Adv. Sept. 29 and Oct. 6.	Sept. 29
Oct. 25	Earthwork, etc.—Salt Lake City, Utah	Sept. 22
Nov. 23	Refrigerating Plant—Pearl Harbor, N. H.	Oct. 6
Nov. 23	Generating Plant Equipment—Pearl Harbor, T. H.	Sept. 22
Nov. 23	Barracks, etc.—Pearl Harbor, T. H.	Sept. 22

Unclassified

Bids close		See Eng. News-Record
Oct. 7	Stairs, etc.—New York, N. Y.	Sept. 29
Oct. 7	Subway Stations—Phila., Pa.	Sept. 29
Oct. 10	Electric Switch and Control—Phila., Pa.	Oct. 6
Oct. 11	Park Improvements — Brooklyn, N. Y.	Oct 6
Oct. 13	Heating, Plumbing, etc.—Chicago, Ill.	Oct. 6
Oct. 17	Subway—Martinez, Calif.	Oct. 6
Oct. 17	Wharf—Alabama	Sept. 29
Oct. 18	Station—Cambridge (br. Boston), Mass.	Oct. 6
Oct. 19	Track Work—Boston, Mass.	Sept. 29
Oct. 19	Boston, Mass.	Sept. 29
Oct. 19	Mechanical Equipment—Brooklyn, N. Y.	Oct. 6
Oct. 26	Heating, etc.—Wingdale, N. Y. Adv. Sept. 29 and Oct. 6.	Sept. 29
Oct. 26	Heating, etc.—Creedmoor (mail Floral Park), N. Y. Adv. Sept. 29 and Oct. 6.	Sept. 29

Materials

Oct. 10	Pipe—Hanford, Calif.	Sept. 29
Oct. 10	Transformers, Cables, etc.—Chicago, Ill.	Oct. 6
Oct. 11	Fuel Oil—Boston, Mass.	Oct. 6
Oct. 11	Wrought Iron Pipe—Boston, Mass.	Oct. 6
Oct. 13	Gravel—Mer Rouge, La.	Sept. 29
Oct. 13	Frogs, Switches, etc.—Phila., Pa.	Oct. 6
Oct. 14	Portland Cement—New York, N. Y	Oct. 6
Oct. 17	Asphaltic Oil, etc.—New Jersey Adv. Sept. 29 and Oct. 6.	Oct. 6

News of the Week

Waterworks

Proposed Work

Tenn., Whiteville—Voted $20,000 bonds, waterworks.

Mich., Mt. Clemens — Plans complete waterworks, incl. intake in Lake St. Clair, filtration plant, pumping station and extending c.i. mains in various streets. $640,000 bonds voted for same. B. H. Harvey, City Hall, engr.

Mich., Muskegon—Making plans electrifying present water supply plant and installing three 6 m.g. centrifugal motor driven pumps, three 200 hp. a.c. motors, one 225 hp. gasoline engine, 3 transformers, oil switch metering house. $27,000. H. J. Lewis, City Hall, engr.

Kan., Dexter—Made preliminary estimates water supply and distribution system. $30,000. W. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, Mo., engrs.

Mont., Chinook—Making plans waterworks. To exceed $15,000. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs.

Mont., Havre—Making plans waterworks. To exceed $15,000. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs.

Tex., Memphis—See "Unclassified."

Okla., Ardmore—Made preliminary plans new 18 mi. 20 in. c..i mains to city lake. $300,000. S. Mathews, Ardmore, engr.

Okla.. Mannford — Made preliminary plans new waterworks. $20,000. J. C. Milliken, Continental Bldg., Oklahoma City, engr.

Okla., Marshall — Voted $25,000 bonds, new well, triplex pump and motor and 5,800 ft. 4 and 6 in. c.i. mains in various streets. W. S. Sherman, 18 East Main St., Oklahoma City, engr. Noted Sept. 8.

Okla., Maud—Making preliminary plans new water supply incl. impounding reservoir, filter plant and pipe lines. $60,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Overbrook—A. Grotto, Ardmore, making plans impounding reservoir, dam and lake, near here. $75,000. S. Matthews, Ardmore, engr.

Okla., Talihna — Making plans waterworks. To exceed $15,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Calif, San Francisco — Spring Valley Water Co., 425 Mason St., making plans extending high pressure system in Daly Hill, Crocker, Amazon and Clay St. tank, etc., $50,000; 16,900 ft. 36- to 48-in. pipe to University Mound Dist., $301,000; constructing east half Stanford Heights reservoir, $70,000; 8,900 ft. 24 in. force main central station to Stanford Heights, $75,000; 13,300 ft. 20 in. pipe Stanford Heights to Presidio Heights, $110,000; 54 in. pipe line from San Andreas to Lake Honda, $1,485,950; also moving pumps and boilers to central station, $140,000. Private plans.

Calif., Ventura—Voted $315,000 bonds, extending waterworks, etc.

Bids Desired

N. Y., Long Island City—Oct. 14, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Roosevelt and Woodside Aves., 63rd and 68th Sts., etc., here.

N. Y., Mount Kisco — Oct. 17, by Bd. Village Trustees, F. R. Matthews, clk., mains and appurtenances in various streets; adv. E. N.-R. Oct. 6.

N. Y., New York — Oct. 7, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Birchall, Brady, Clarence, Cruger, East Bay Sts., etc.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Pa.. Pittsburgh—Oct. 11, by City Controller, City County Bldg., constructing McNaugher Reservoir, 5.5 m.g., rein.-con. $90,000. Bureau of Engineering, City County Bldg., engrs.

W. Va., Parkersburg—Oct. 26, by City Council, waterworks. $400,000. Morris Knowles, Inc., Westinghouse Bldg., Pittsburgh, Pa., engrs.; adv. E. N.-R. Oct. 6.

La., New Orleans—Nov. 30, by Sewerage & Water Bd., 526 Carondelet St., waterworks, sewerage and drainage work during 1928. Work to be done on percentage basis. G. G. Earl, genl. supt.; adv. E. N.-R. Oct. 6.

Tenn., Nashville — Oct. 4, by Bd. Pub. Wks, 12 in. c.i. main over Jefferson St. Bridge and approaches. To exceed $15,000.

Tex., Devine—Oct. 15, by City, M. E. DuBose, mayor, waterworks, incl. steel tower and tank, 50,000 gal. capacity. $25,000. Walton & Arneson, 422 Gunter Bldg., San Antonio, engrs. Noted Sept. 15.

Tex., San Antonio—See "Unclassified."

Tex., San Benito — F. L. and B. W. Hinkly, taking bids, waterworks, incl. distributing system and pumping unit in residential sub-division. $25,000. Private plans.

Calif., Vallejo—A. E. Edgcumbe, city clk., taking bids repairing spillway at Lake Curry, Napa Co., in connection with municipal waterworks. T. D. Kilkenny, city engr.

Contracts Awarded

N. H., Epping—Waterworks, incl. standpipe mains and pumping station to reinforce present system, to Ames Constr. Co., Somersworth. Engrs. est. $30,000. Noted Sept. 8.

Mass., Weston — Water Comrs., Town Hall, 3,200 ft. 6- to 10-in. mains, etc., in various streets, to J. H. McClusker, 62 Church St., Waltham.

R. I., Providence—Bd. Contr. & Supply, brick pumping station, Bath St., to P. J. Flynn, 17 Exchange St., $21,725. Engrs. est. $30,000.

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenues O, R and V, etc., to G. V. Cornell, 30 Egbert Pl., Rosebank, $6,760. Noted Sept. 22.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in 39th Ave. ,etc., to G. V. Cornell, 30 Egbert Pl., Rosebank, $5,400. Noted Sept. 2.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Columbus and 12th Aves., Bond, Dyckman, Isham Sts., etc., to Beaver Eng. & Contg. Co., 57 Chamber St., $31,920. Noted Sept. 29.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Amsterdam Ave., to Wataga Contg. Co., 308 Lenox Ave., $42,890. Noted Sept. 22.

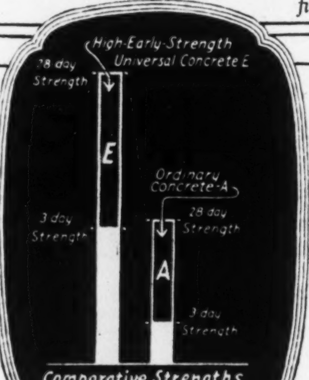
Md., Oxford — City Comrs., pumping equipment, to Virginia Mchy. & Well Co., 1319 East Main St., Richmond, Va., $1,650; laying 14,325 ft. 6 and 8 in. mains in various streets, to W. G. Fritz Co., 69 Main St., West Orange, N. J., $8,421; also 100,000 gal. tank on 75 ft. tower, to Petroleum Iron Works Co., 25 West 43rd St., New

Constr. News page 176

Especially Well Adapted to ROAD and STREET work

While *High-Early-Strength* Universal Concrete may be made as workable as desired and used on *all types* of jobs, the need for time-saving in construction of roads and streets makes it particularly adaptable for this field. Here are typical examples of how *High-Early-Strength* Universal Concrete has helped to prevent or shorten detour periods.

Conditions	Solution
Because *East Stratton Street, Logan, W. Va.*, is used by 5000 automobiles each day, the officials wished to give the public earliest possible use of the new pavement.	The builder used *High-Early-Strength* Universal Concrete. Sections were opened to traffic *3 days* after placing.
At *La Grange Park, Ill.*, a change of grades was necessary at three busy intersections. Each day's delay meant time-loss to hundreds of motorists.	Intersections were paved with *High-Early-Strength* Universal Concrete on *Tuesday* and opened to traffic early *Saturday* morning.
Michigan Street, Duluth's heaviest traveled business street had to be re-paved. Specifications permitted its being opened to heavy traffic only after the concrete had developed a compressive strength of *2000* lbs. per square inch.	*High-Early-Strength* Universal Concrete was used. Thirty-eight tests showed an average strength of *2130 lbs.* at *4 days* when the street was opened. A 10-day detour period was avoided.
Five days before the scheduled opening of the new *Sioux City-Le Mars, Iowa*, highway, paving was begun on the intersection that joins the road to the city.	*High-Early-Strength* Universal Concrete was used for the intersection and it and the highway were opened as scheduled. Three thousand automobiles passed over the intersection on the opening day—*five days* after the concrete was placed.



High-Early-Strength Universal Concrete is made by using fully tested methods with the usual materials, usual labor, usual equipment, and standard—not special—Universal cement. At *3 days* its strength is equal to the strength of ordinary concrete at *28 days*, and in addition it also has a higher *ultimate* strength, and therefore is *permanently* better and stronger concrete. (See diagram.) For details, send in the accompanying coupon.

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Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Waterworks (Continued)

York City, $6,310. **Grand total $16,381.** Noted Sept. 15.

O., Dayton—See "Sewers."

Mich., Saginaw—City, diesel engine for waterworks plant, to General Electric Co., River Rd., Schenectady, N. Y., $91,873.

Kan., Longton—Water-mains and sewers in various streets, to W. B. Carter, 1509 East Admiral Blvd., Tulsa, Okla. Engrs. est. $60,000.

Okla., Oklahoma City—Extending 37,300 ft. 6- to 10-in. c.i. mains in various streets, to Sherman Iron Wks., 18 East Main St., $58,401. Engrs. est. $60,000

Calif, Watsonville—For 14,795 ft. 4- to 10-in. c.i. pipe, etc., for waterworks, to Welch Bros., Sebastopol, $16,790.

Ont., Thorold—J. A. Clark, clk. Thorold Twp. Fonthill, elevated tank, to Horton Steel Co., Bridgeburg, $9,985; filters, to W. J. Westaway Co., 38 Main St. W., Hamilton; and machinery, to Francis Hankin Co., 598 Union St., Montreal, Que.

Sewers

Proposed Work

Massachusetts—Dept. Pub. Health, State House, Boston, rejected bids Sept. 14, sewers, etc. at Westfield State Sanatorium, Westfield, and North Reading Sanatorium, North Reading. Will probably readvertise. G. H. Bigelow, comr. Noted Sept. 8.

N. Y., Rensselaer—Making preliminary plans intercepting sewerage system and disposal plant. $500,000. R. Wheeler, 36 State St., Albany, engr.

N. Y., Troy—J. M. Caird, chemist, Cannon Pl., and R. Wheeler, engr., 36 State St., Albany, preparing preliminary report sewage disposal plant and intercepting sewerage system, here, for City. $2,000,000.

Ill., Wilmette—Making plans sewers in western part town (new addition). $500,000. C. N. Roberts, 105 North Clark St., Chicago, engr.

Wis., Wauwatosa — Making plans approximately 12,000 ft. sewers in Blue Mound Manor Subdivision. $38,000. R. H. Washburn, 460 5th Ave., engr.

Mont., Chinook—Making plans sewerage system. To exceed $25,000. Burns & McDonnell Eng. Co., 401 Interstate Bldg., Kansas City, Mo., engrs.

Mont., Havre—Making plans sewers in various streets. To exceed $25,000. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs.

Tex., Memphis—See "Unclassified."

Tenn., Springfield—Plans sewers in various streets. $100,000.

Okla., Marshall — Voted $50,000 bonds new sewerage system, incl. Imhoff tank, 25,900 ft. 8- to 12-in. vitr. clay pipe in all streets. W. S. Sherman, 18 East Main St., Oklahoma City, engrs. Noted Apr. 28.

Okla., Sapulpa—Takes bids in late fall sewer improvements; $550,000 funds available. C. Schiltz, city engr.

Okla., Tulsa—Made preliminary plans 11,000 ft. 36 in. segmental block storm sewers in Peoria Ave. $28,000. C. Schultz, City Hall, engr.

Okla., Wewoka—Made preliminary surveys 20,000 ft. 8 and 10 in. vitr. lateral sewers, etc., in Bluff View Addition. $25,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Calif., Long Beach—Soon takes bids vitr. and rein.-con. sewers, 2 pumping stations, etc., in industrial section city. To exceed $500,000. Noted Sept. 29.

Calif., Pittsburg — Making plans 4,800 lin.ft. 8 and 12 in. vitr. sewer, etc. in western section city. G. Oliver, city engr.

Calif., Redwood City—San Mateo Co. rejected bids sewer in South San Francisco D. D. 1. Noted Sept. 29.

Calif., San Francisco—City provided $50,000 funds (1st unit) main sewer in Fillmore St. M. M. O'Shaughnessy, city engr.

Calif., Ventura—Voted $210,000 bonds, extending sewers in various sections city.

Bids Desired

Mass., Boston—Oct. 13, by Dept. Pub. Wks., sewerage works in East Boston and West Roxbury. $25,000. J. H. Sullivan, comr.

N. Y., Brooklyn—Oct. 14, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewers in Stanley and Hopkinson Aves.

N. Y., Mamaroneck — Oct. 24, by Bd. Sewer Comrs., Sewer Dist. 1, Edgewood Rd., sludge treatment plant, sewage sedimentation basins, etc. A. J. Foote, Hillside Arcade, Chatsworth Ave., Larchmont, engr.; adv. E. N.-R. Oct. 6.

Ala., Birmingham — Nov. 1, by City Comn., brick, terra cotta and concrete sewer in 8 blocks, Bessemer Rd., also Ave. Q, 49th St., Terrace M, and Ave. P., Ensley, $24,000; also 4 blocks 77th St., Rugby Ave., and near Howard College, $3,150. A. J. Hawkins, city engr.

La., New Orleans—See "Waterworks."

O., Parma (br. Cleveland)—Oct. 7, by Village, sewer in Groups O and P. To exceed $25,000. R. F. MacDowell, Chester Twelfth Bldg., Cleveland, engr.

Ia., Des Moines—Oct. 10, at office R. P. Bane, city clk., 17,899 ft. 10 in. vitr. clay sewers, 58 manholes, etc. in Windsor Sq. Section. R. P. Bane, city clk.

Tex., San Antonio—See "Unclassified."

Okla., Chickasha—Oct. 13, by C. A. Chinchall, city clk., 13,100 ft. 10 in. vitr. clay sewers, etc. in Dist. 62. $26,000. R. O. Bradley, Chickasha, engr.

Calif., Berkeley—City Clerk taking bids 1,533 lin.ft. 10- to 24-in. vitr. sewer, etc., in Heinz Ave. A. J. Edy, city engr.

Calif., Inglewood—Taking bids 6- to 8-in. vitr. sewer, etc. in Van Ness Ave., etc. $25,000 or more.

Calif., San Francisco — Bd. Pub. Wks. taking bids rein.-con. sewer in 30th Ave. $40,000. M. M. O'Shaughnessy, city engr.

Bids Received

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, Sept. 27, two 25 x 29 ft., rein.-con. arch sewers, etc. in Sect. D River Des Peres Project, from Whitmire Constr. Co., Kansas City $2,277,217. Engrs. est. $3,100,000. Noted Sept. 17.

Contracts Awarded

Massachusetts—Dept. Pub. Wks., Boston, sewerage works in various streets in West Roxbury and Brighton, to J. Todesca, Rosendale, $15,621 and $15,183, respectively. Noted June 9.

Conn., Hamden (br. New Haven)—For 27,770 ft. sewer in Highwood Sect., to N. C. Casciano, 20 Lilly Rd., West Hartford, $56,631. Noted Sept. 8.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewers in 90th St. and Lamont Court, etc., to R. Iovino, 678 Glenmore Ave., $1,007 and $826 respectively: in 67th and East 59th Sts., to Delmel Constr. Co., 7624 15th Ave., $7,298 and $2,469 respectively; and Kings Highway, to S. Guerriero, 1014 66th St., $37,080. Grand total $48,680. Noted Sept. 22.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Paterson Ave., to A. Spadaro, 2883 Coddington Ave., $1,230; in Paterson Ave., to P. Bruno, 1669 Holland Ave., $3,275; and in Edwards Ave., to Coddington Avenue Contg. Co., 2883 Coddington Ave., $5,820. Grand total $10,325. Noted Sept. 22.

New Jersey—Bd. Freeholders Bergen Co., Court House, Hackensack, catch basins, drains, etc. in Palisade Ave., Englewood, and constructing retaining wall on Grand Ave., Palisade Park, to E. Abraham, Hudson St., Hackensack, $37,952 and $12,765 respectively.

W. Va., Huntington — Vitr. sewers in Westmoreland Projects 4, 5, 6 and 7, to Amos Trainer & Son, Huntington, $31,994.

O., Dayton—Montgomery Co., 8- to 24-in. vitr. sewers in Patterson Park Plat., to E. Murray, 18 Cambridge Ave., $19,768, and 4- to 6-in. c.i. water mains, to V. Smith, 209 South Perry St., $12,085.

O., New Boston (sta. Portsmouth)—City Council, 1,035 ft. 66 in. double ring brick main sewer outlet in West Ave., to W. A. Henderson, Logan, $45,775.

O., Parma (br. Cleveland) — Sewers in Group M, to George Bros., Erie Bldg., $19,325; and Group N, to Hanna & Michael Constr. Co., 636 Huron Rd., $17,118.

Mich., East Grand Rapids (mail Grand Rapids) — Sewage-disposal plant, tanks, sludge bed, approximately 475 cu.yd. rein.-con., to R. E. Towsend Corp., Ann Arbor, $74,535. Noted Sept. 22.

Ill., Springfield — Bd. Trustees Sanitary Dist., City Hall, G. T. Cresse, pres., sewage treatment plant, to Bierd, Lydon & Grandpre, Inc., 64 East Jackson Blvd., Chicago, $318,464. Engrs. est. $341,003. Noted Aug. 25.

N. D., Wimbledon—Sewerage system, to Haggart Constr. Co., 214 Roberts St., Fargo, approximately $30,000.

Kan., Longton—See "Water Works."

Mo St. Louis—Bd. Pub. Serv., 208 City Hall, constructing Highlands Joint Sewer, 5,970 ft. 12- to 66-in. vitr. clay, brick or segmental block pipe, etc. and Rock Creek Sewer Dist. 11, 6,255 ft. 8- to 24-in. vitr. clay pipe, etc., to Riley Contg. Co., 110 North 7th St., $51,498 and $16,367 respectively; South Hurst Dist. Sewer, 2,535 ft. 8- to 24-in. vitr. clay pipe, to Frazier-Davis Constr. Co., Arcade Bldg., $6,564; also Cheltenham Dist., Sewer 1, approximately 900 ft. 10 and 12 in. vitr. clay pipe, etc. to Martin & Reilly, 7227 Lindell Dr., $3,091 Grand total $77,520. Noted Sept. 8.

Calif., Inglewood—For 6 and 8 in. vitr. sewers in Municipal Impvt. Dist. 2, to Radich & Petel, 1253½ Sunset Blvd., Los Angeles, $68,342.

Calif., Los Angeles—Sewer, resurfacing, etc. Holmby Ave. between Santa Monica Blvd. and Balsam Ave., to J. Chutuk, Wilcox Bldg., $55,112.

Calif., Los Angeles — To C. E. Green, Western Mutual Life Bldg., 8,974 ft. 2 ft. 6 in. and 3 ft. 9 in. pre-cast pipe in Venice Outfall Sewer, Sect. 2, $114,507. Owner furnishes materials.

Calif., Manhattan Beach (P. O. Manhattan)—Sewers, etc., in various sections city, to J. C. Duncan, 5128 Maywood Ave., Eagle Rock, $149,937.

Calif., Oakland—City Port Comn., 75,000 ft. 4 in. tile drain for Municipal Airport, to Dickey Clay Products Co., 604 Mission St., San Francisco, $4,425; concrete pipe, to Merritt Concrete Products Co., San Jose, $14,000; laying pipe, to Oakland Sewer Constr. Co. Builders Exchange, $21,669; rock or gravel, to J. Costello, San Leandro, $10,850. Grand total $50,944.

Que., Montreal—Brick sewer in Maplewood Ave., to J. Loranger, 121 De Boucherville St., $147,000.

Waste Disposal

Proposed Work

N. Y., Troy—Bd. Estimate & Apportionment making plans garbage incinerating plant, Brunswick Ave. and Oakland Avenue Rd. $150,000. G. S. Thompson, 257 Bway., consult. engr.

Bids Desired

Va., Richmond—Nov. 10, at office R. K. Compton, dir. Pub. Wks., garbage incinerator; adv. E. N.-R. Oct. 6.

Bridges

Proposed Work

Mass., Medford — Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, made surveys bridge over Mystic River opposite Harvard and Mystic Sts., South Medford, and widening Harvard St. back to Somerville Line. $350,000-$400,000. J. R. Rablin, c/o owner, engr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about Oct. 15, 2 concrete and steel bridges over Tennessee River, one at Niles Ferry, Monroe Co. $190,000 and other near Perryville, Perry Co. $900,000. C. N. Bass, highway comr. Noted May 26 and July 14.

Tenn., Nashville — See "Streets and Roads."

Tex., Archer City—See "Streets and Roads."

Tex., Centerville — See "Streets and Roads."

Tex., Lefors—See "Streets and Roads."

Tex., Sherman—See "Streets and Roads."

Tex., Wharton—See "Streets and Roads."

Okla., Haywood—State Hy. Dept., Oklahoma City, making preliminary plans 2 span 194 ft. steel truss bridge on piers over Hurricane Creek, on Road 3, west of here, Pittsburg Co. $60,000. C. R. Mandigo, Capitol, Oklahoma City, engr.

Okla., Pocasset—Grady Co. making preliminary plans 2 span 96 ft. steel truss bridge on piers over Pocasset Creek, on County Road 7. $35,000. P. A. Little, Chickasha, engr.

Calif., Los Angeles—Made plans five 62 ft. span rein.-con. girder viaduct over Los Angeles River, on Washington St. $200,000. M. Butler, Los Angeles, bridge engr.

Calif., Orick — State Hy. Dept., Sacramento, plans concrete bridge over Prairie Creek, point 1 mi. from here, and bridge over Los Man Creek, point 3 mi. from here, Humboldt Co. $30,000. R. M. Morton, Strub Bldg., Sacramento, engr.

Calif., San Rafael — Marin Co., made plans concrete and steel bridge over Walker Creek, on Millerton Fall Rd. R. Messner, San Rafael, co. surv.

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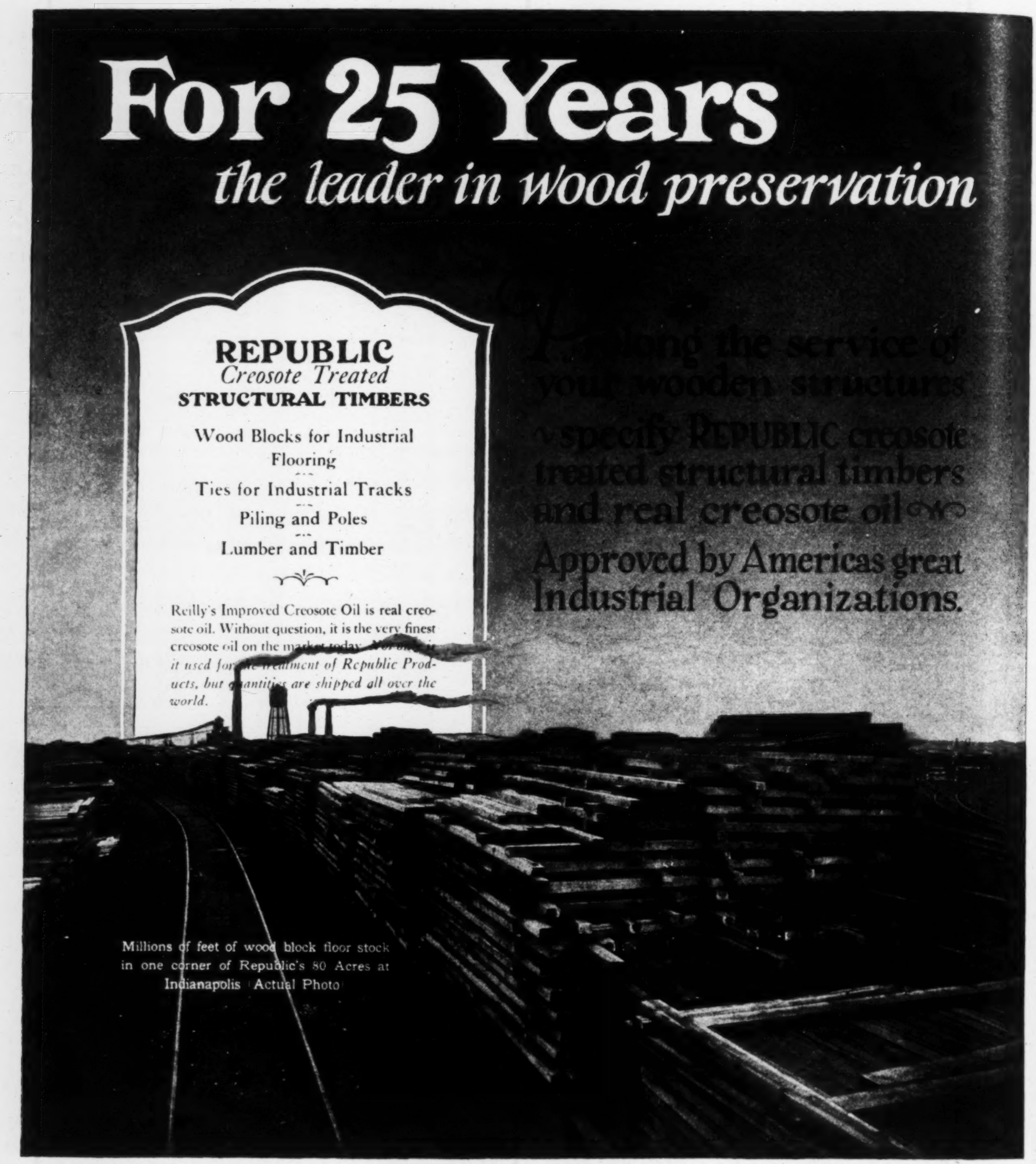

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Bridges (Continued)

Bids Desired

Connecticut—Oct. 7, by J. A. MacDonald, comr. State Hy. Dept., Hartford, 45 ft. span rigid frame bridge over Little River on Scotland-Canterbury Rd., in Scotland, and 40 ft. span concrete girder bridge over Raymond Brook, on Colchester-Hebron Rd., in Hebron; substructure and approaches for elimination grade crossing and new bridge over Naugatuck River at Castle Bridge, in Harwinton and Litchfield; concrete retaining wall at Windsor Underpass, in Windsor; also rein.-con. paving 771 lin.ft. approaches to Johnson's Bridge over the New York, New Haven & Hartford R.R. tracks, in East Hampton. D. H. B. Starr, Poliner Bldg., Middletown, div. engr.

New York and New Jersey—Oct. 14, at office J. E. Ramsey, ch. executive officer Port Authority, 75 West St., New York City, concrete decks of Outerbridge Crossing and Elizabeth Howland Hook Bridge over Arthur Kill between Staten Island, N. Y. and New Jersey; adv. E. N.-R. Oct. 6. Noted Sept. 2.

N. J., Newark—Oct. 17, at office State Hy. Comn., Trenton, bridges, retaining walls, and other steel, rein.-con. or masonry structures for Sect. 13, Route 1 extension, here, Essex Co. A. L. Grover, secy.; adv. E. N.-R. Oct 6. Noted July 28.

W. Va., Lewisburg — See "Streets and Roads."

North Carolina—Oct. 18, by State Hy. Comn., Raleigh, rein.-con. bridges, etc., over Tar River, on Project 182, at Greenville, in Pitt Co., $160,000; Project 604, Alexander Co., $48,000; and Project 335, Columbus Co., $40,000.

O., New Philadelphia—Oct. 15, by Comrs. Tuscarawas Co., concrete bridge over Stillwater Creek. $36,802.

Ia., Marengo—Oct. 10, at office Auditor Iowa Co., one 32 x 18 ft. and one 20 x 16 ft. I-beam, one 85 x 16 ft., 50 x 16 ft. and 45 x 16 ft. pony truss bridges. W. W. Thorn, Marengo, co. engr.

Nebraska—See "Streets and Roads."

Mo., St. Louis — See "Contracts Awarded."

Okla., Carrier—Oct. 10, by L. B. Lewis, clk., Garfield Co., Enid, 2 span 118 ft. rein.-con. trestle, here. $32,000. F. W. Denner, Enid, engr.

Okla., Greenfield — Oct. 14, by Clerk Blaine Co., Watonga, 9 span, 170 ft. rein.-con. bridge with 100 ft. pile trestle approach, here. $37,000. C. G. Wood, Watonga, engr.

Bids Received

New York and New Jersey—Port of New York Authority, 75 West St., New York City, Oct. 3, from McClintic Marshall Co., Oliver Bldg., Pittsburgh, Pa., constructing towers and anchors for Hudson River Bridge from Fort Washington, N. Y., to Fort Lee, N. J., Contr. HRB-5 (wire cable) $22,746,620, towers, Contr. HRB-5A, (wire cable) $10,134,440, towers only, Contr. HRB-5A, (eye bar cable) $10,640,040; from Amer. Bridge Co., 30 Church St., New York City, towers and anchors, Contr. HRB-5, (eye bar cable) $24,485,370, anchors only, Contr. HRB-5B, (wire cable) $14,969,455, and Contr. HRB-5B, (eye bar cable) $13,985,605; from J. A. Roebling Sons, South Broad and Sanal Sts., Trenton, furnishing wire cable, Contr. HRB-5D, $12,339,977. Noted Aug. 4.

Contracts Awarded

Pa., Beaver Falls — Pittsburgh & Lake Erie R.R. Co., A. R. Raymer, ch. engr., Pittsburgh, 540 ft. ramp bridge, 16 ft., on Bridge St., to Fred Bruner Co., Columbia Bank Bldg., Pittsburgh. Engrs. est. $25,000.

Florida—State Roads Dept., Tallahassee, constructing bridges, East and West Bay Projects 680 and 681, Road 10, Bay Co., to North Western Florida Corp., Panama City, $1,272,000. Noted May 26.

Kan., Eldorado — See "Streets and Roads."

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, will alter and repair concrete and steel bridge over Mill Creek Valley, on 21st St., by day labor. $25,000. Private plans.

Tex., Laredo—See "Streets and Roads."

Okla., Kenton—State Hy. Dept., Oklahoma City, 24 span 446 ft. pile trestle bridge, Cimarron Co., here, to L. N. Swope & Son, Cimarron, N. Mex., $24,811. Engrs. est. $27,500. Noted Aug. 25.

Washington—See "Streets and Roads."

Calif., Los Angeles—Bd. Pub. Wks., concrete viaduct over Los Angeles River and Santa Fe & Union Pacific R.R. tracks, on 1st St., to North Pacific Constr. Co., Detwiler Bldg., $613,477. Noted Aug. 4.

Calif., Visalia—Tulare Co., Bridge 80 known as Woodlake Bridge, rein.-con. over St. Johns River, to L. C. Clark, Visalia, $29,885. Noted Sept. 22.

Dams

Proposed Work

Okla., Overbrook—See "Waterworks."

Calif., Los Angeles — See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Railways

Proposed Work

Ontario—Canadian Natl. Rys., T. T. Irving, ch. engr. (Central Region), New Union Sta., Toronto, making plans enlarging yards, new sidings, moving and rearranging others at Fort William.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Ia., Atlantic—D. D. 7, Cass Co., making plans straightening Nishnabotna River through county. $75,000. G. F. Canon, Atlantic, co. engr.

Minn., Good Thunder—Blue Earth Co. making plans constructing D.D. 73, 6.5 mi. 8- to 20 in. tile. $15,000. C. J. Swift, Mankato, engr.

Colo., Rifle—Hunter Mesa Irrigation Co. plans reservoir, 40 mi. pipe line, flume and siphon for irrigation project $3,000,000. Engineer not selected.

Tex., Edinburg—Hidalgo Co. Water Control & Impvt. Dist. 6, c/o M. Goodwin, pres., soon takes bids 75 mi. concrete canal, 30 mi. pipe line irrigating 23,000 acres land. $1,600,000 bonds voted for same. Card & Parks, McAllen, engrs.

Bids Desired

Connecticut—See "Bridges."

La., New Orleans — Oct. 19, by R. B. Koknke, engr., New Court House Bldg., constructing approximately 50,000 cu.yd. levee work on east bank Mississippi River between Jackson Ave. and Nuns St., Orleans Parish, for Bd. Levee Comrs.

Louisiana—Nov. 3 (extended date) by State Hy. Comn., Baton Rouge, embankment on Chef Meneur Highway, Federal Aid Project 201-G, Unit 1 St. Tammany Parish. N. W. Bowden, highway engr.; adv. E. N.-R. Oct. 6. Noted Sept. 29.

Ill., Carrollton — Oct. 14, by Commissioners Hartwell Drainage & Levee Dist., Greene Co., open ditches, 204,717 cu.yd. excav. Caldwell Eng. Co., Jacksonville, engrs.

Calif., Grass Valley—Oct. 15, by B. W. Baldwin, secy. Nevada Irrigation Dist., Contr. 29, 60 x 72 ft. rectangular, 48 x 48 ft. rectangular, and 36 in. round gates, all with frame and hoist, f.o.b. Nevada City, also 72 x 60 in. gate, 48 in. and 42 in. round gates, frame and hoist, f.o.b. Auburn; Contr. 28, furnishing Butterfly valve and balanced needle valve, f.o.b. Nevada City. F. H. Tibbetts, Alaska Commercial Bldg., Los Angeles, engr.

Contracts Awarded

New Jersey—See "Sewers."

Louisiana—Red River and Atchafayala Basin Districts, repairing Port Barre South Levee, to McWilliams Dredging Co., New Orleans Bank Bldg., New Orleans, $78,000; 1,800 cu.yd. Lafourche Basin Levee Dist., Ascension and St. James Parishes, to W. E. Morgan, 5919 Freret St., New Orleans, $8,460; 35,000 cu.yd. levee work in St. Charles and Jefferson Parishes, to Davis & Helm, Gretna, $13,090; 8,000 cu.yd. at Port Barre, to J. E. Firman, $2,640, 33,000 cu.yd. in Sterling Bayou, Caddo Parish, and 37,000 cu.yd. at Curtis, Bossier Parish, to Howard Kenyon Co., 3603 McKinley St., Houston, Tex., 6,435 and $7,215 respectively; 51,000 cu.yd. Honey Grove, Bossier Parish, to J. E. Stilles, 2901 Southern Ave., Shreveport, $9,282. Grand total $125,122.

O., Cleveland—New York, Chicago & St. Louis R.R. Co., A. C. Harvey, ch. engr., Prospect Ave. and East 2nd St., 1,700 ft., 1,100 ft., and 300 ft. rein.-con. retaining walls, all 40 ft. high, 2 to 10 ft. thick, here, to H. E. Culbertson Co., Union Trust Bldg. Engrs. est. $400,000.

Ia., Logan — Harrison Co. repairing Soldiers Cut-Off Ditch, incl. sloping banks, rebuilding 7.25 mi. levees to grade line from bridge at Orson to Missouri River, 938,000 cu.yd. excav., etc., to Jack Boyne Constr. Co., 201 Nonparrel Bldg., Council Bluffs, at $0.0722 per cu.yd. Noted Sept. 1.

Wash., Port Orchard—Kitsap Co., dredging 72,000 cu.yd. in Port Orchard Bay, to Puget Sound Bridge & Dredging Co., Central Bldg., Seattle, at $0.44 per cu.yd.

Calif., Azusa—Azusa Irrigation Co., 12,500 ft. 12 in. No. 14 D.D. & W. riveted steel pipe, to Baker Iron Wks., 950 North Bway., Los Angeles $14,250, and 152,500 ft. 4- to 8-in. Matheson steel pipe, to Crane Co., 321 East 3rd St., Los Angeles $73,000; welding and laying 152,500 ft. 5- to 8-in. Matheson steel pipe, also trenching 152,500 ft. 5- to 8-in. Matheson and 12,500 ft. 12 in. riveted steel pipe, to Southwest Welding & Machine Co., Banning Wharf, San Pedro, $15,800 and $13,250 respectively. Grand total $116,300.

N. B., St. John—Dept. Pub. Wks., Ottawa, deepening water basin at wharves, here, to St. John Dry Dock & Shipbuilding Co. Ltd., St. John, $25,000.

Quebec—Dominion Govt., Ottawa, Ont., deepening and enlarging channel to wharf St. Michel de Bellecharre, and deepening downstream side St. Regis Paper Co. wharf, Godbout, to Natl. Dock & Dredging Co. Ltd., Quebec City, $16,647 and $18,000 respectively; dredging channel leading to Anticosti Corp. wharves, etc. Ellis Bay, Anticosti Island, also widening and deepening channel and turning basin at new wharf St. Anne Paper Co. Ltd., Beaupre, to Canadian Dredging Co. Ltd., Midland, Ont., $515,474 and $218,420 respectively; dredging Areas 1, 2, and 3, Rivere du Loup (en Haut), to Les Chantiers Manseau, Sorel, $68,600. Grand total $837,141.

Ont., Goderich — Dominion Govt., Ottawa, deepening and widening entrance channel and enlarging turning basin, here, to Kilmer & Barber Ltd., 10 Adelaide St., E., Toronto, $73,280.

Ont., Port Arthur—Dominion Govt., Ottawa, extending slip in front Thunder Bay Paper Co. Ltd., plant, in main harbor, to Chambers, McGuigge & McCaffrey, Excel Life Bldg., Toronto, $184,900.

N. S., New Harbour — S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., extending breakwater, here, to T. P. Charleson, 179 Gilmour St, Ottawa, Ont., $27,140. Noted May 26.

Streets and Roads

Proposed Work

Mass., Boston—Dept. Pub. Wks., plans laying out and constructing Randolph Rd. and Rock Terrace as highway in Dorchester, also sheet asphalt paving Ralston St., South Boston. To exceed $25,000. J. H. Sullivan, comr.

W. Va., Parkersburg — Soon takes bids concrete and rein.-con. paving portions 21st and 4 other streets. $63,307. J. V. Dunbar, Parkersburg, engr.

Tennessee — State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, making surveys improving 5 mi. Henderson-Jackson Rd., State Road 5, Chester Co.; and 14 mi. Jackson-Chester Co. Line Rd., Madison Co. C. N. Bass, highway comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 12 mi. Nashville-Williamson Co. line Rd., via. Franklin Pike, Davidson Co. C. N. Bass, highway comr.

Tenn., Nashville—Making plans widening and paving portions 3rd and Daaderick Sts. To exceed $100,000. W. W. Southgate, city engr.

Tenn., Nashville—Davidson Co: Highway Comn., F. M. Davis, comr., plans belt system of highways connecting main roads, also several small bridges. To exceed $25,000. C. Akers, Court Hours, engr.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids about Jan. 1, grading, curbing, walks and vitr. brick paving 11,000 sq.yd. East York St. et al. $92,700. E. A. Kemmler, Municipal Bldg., engr.

O., Columbus—Made plans asphalt resurfacing 12,200 sq.yd. Park St. S., $30,806;

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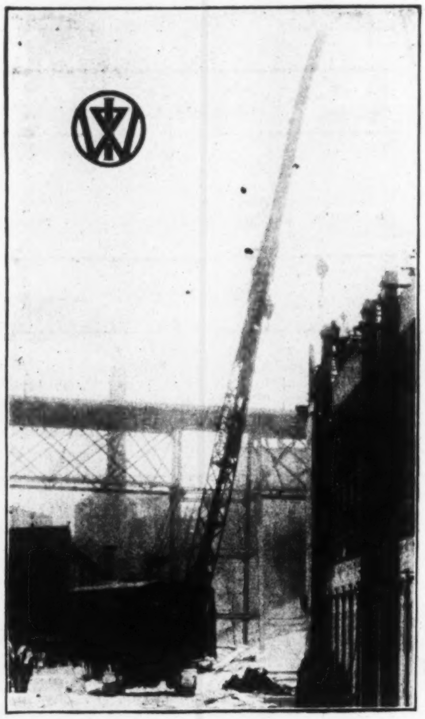

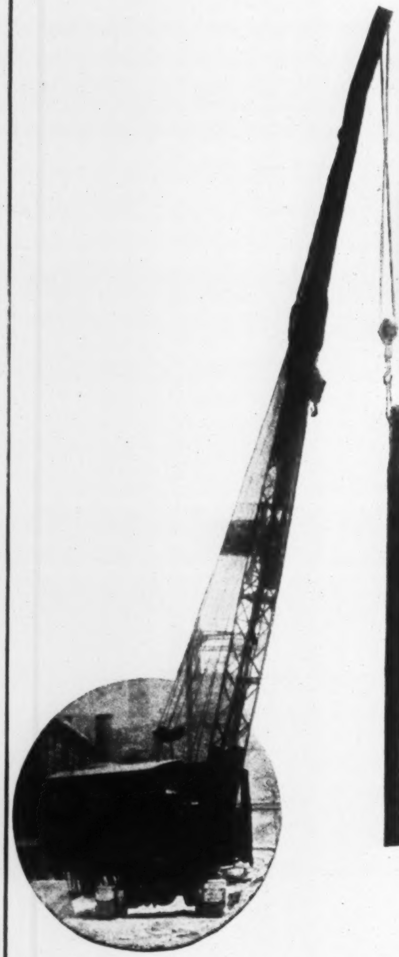

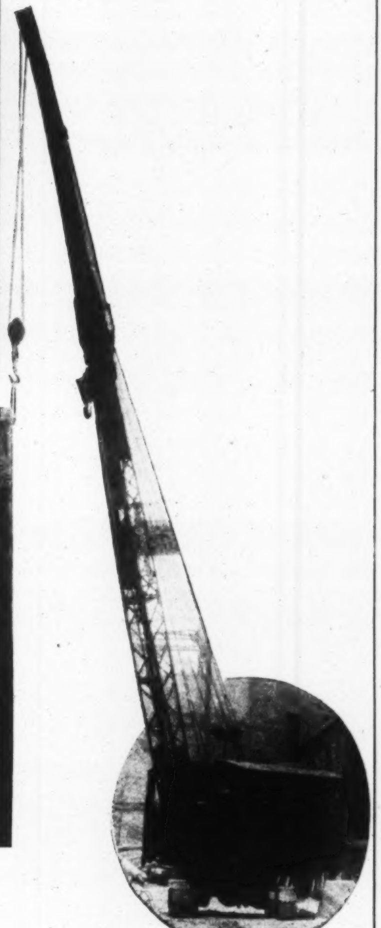

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Philadelphia, Pa.
Packard Building

Pittsburgh, Pennsylvania
Federal Reserve Building

San Francisco, Calif.
Monadnock Building

St. Louis, Mo.
Railway Exchange Bldg.

Streets and Roads (Continued)

and 24,000 sq.yd. Fulton St., $72,089. R. H. Simpson, city engr.

Michigan—C. L. Cowgill, resident engr., Plymouth, takes bids about Oct. 19, concrete paving 6 mi. State Trunk Line Rd. M050-7, 20 ft. Macomb Co., for State Hy. Dept., Lansing.

Mich., **Pontiac**—Oakland Co. made plans one course 8 in. concrete paving 70,000 sq.yd. Fourteen Mile Rd. $300,000. L. V. Belknap, Pontiac, co. engr.

Mich., **Port Huron**—Making plans asphalt resurfacing 18,000 sq.yd. Military, Huron and Quay Sts. $25,000. D. D. Worcester, city engr.

Ill., **Galesburg**—Making plans grading, curbing and vertical fibre brick on 4 in. concrete paving 8 blocks Locust St. $30,608. A. L. Richey, Galesburg, engr.

Ia., **Marcus** — Making plans curbing, guttering and concrete paving 98,500 sq.yd. various streets. $200,000. Henningson Eng. Co., 300 Natl. Bldg., Ohama, Neb., engrs.

Mo., **Boonville**—Cooper Co., voted $25,000 bonds, improving Road Dist. 16.

Mo., **St. Louis**—Bd. Pub. Serv., 208 City Hall, making plans grading and concdete paving approximately 14,300 sq.yd. alleys in City Blocks 1972, 2606, 2837, 2840-S, 3113, 4083, 4669, 4670, 5278, 5768 and 5949. $38,420. W. W. Horner, 300 City Hall, engr.

Mo., **St. Louis**—Stedelin Bros., 823 North 4th St., takes bids in spring, curbing, guttering, sewers and paving 50 acre subdivision at Gravois Ave. and Meramec St. $200,000. Dodds Suver. Co., 717½ Chestnut St., engrs.

Ark., **Eureka Springs**—Making preliminary plans grading, curbing and concrete or asphalt paving 4.6 mi. Street Impvt. Dist. 1.

Ark., **Little Rock** — Pulaski Co. made preliminary plans grading and Finley method paving 9 mi. Mabelvale Pike, 18 ft. $140,000.

Ark., **Prescott**—Making preliminary plans grading, curbing and concrete paving 17 blocks 2nd St.

Ark., **Searcy** — Soon takes bids grading, curbing and concrete paving 10 blocks Street Impvt. Dist. 10.

Ark., **Wynne**—Soon takes bids grading, curbing and concrete paving 46 blocks Street Impvt. Dist. 1.

Tex., **Archer City** — Archer Co. making plans grading and bridging 18 mi. State Highway 30. $122,705. G. R. Johnston, Archer City, resident engr.

Tex., **Centerville**—Leon Co. making plans grading, bridging and rein.-con. paving 29.9 mi. Highway 32, 18 ft. $1,149,473. Witt, Rollins & Gilchrist, Allen Bldg., engrs.

Tex., **Groesbeck**—Limestone Co. making plans concrete paving 12 mi. Highway 7 from Freestone Co. line to west line Rd. Dist. 4. $383,220. Nagle, Witt, Rollins & Gilchrist, Allen Bldg., Dallas, co. engrs.

Tex., **Haskell**—Haskell Co. defeated $1,500,000 bonds, hard paving various roads. Address J. G. Foster, Haskell, co. judge.

Tex., **La Grange**—Fayette Co. making plans asphalt on gravel surfacing 3.3 mi. State Highway 3, 20 ft. $43,000. R. E. Schiller, La Grange, co. engr.

Tex., **Lefors**—Gray Co. making plans grading, bridging and concrete paving 16 mi. Highway 75, 18 ft. $560,000. C. L. Hasie, Memphis, engr. Noted Aug. 11.

Tex., **Memphis**—See "Unclassified."

Tex., **Pampa** — Gray Co. voted $400,000 bonds, improving approximately about 20 mi. highway in Pampa Dist. Address T. M. Wolfe, Lefore, co. judge.

Tex., **Port Lavaca**—Calhoun Co. voted $260,000 bonds, improving various roads. Address F. M. Tanner, co judge.

Tex., **Sherman**—Grayson Co., making plans grading, bridging and concrete paving 12 mi. State Highway 91, $388,800; 18 mi. State Highway 5, $546,192; 12 mi. State Highway 6 from Sherman to state line at Red River, $409,335; and 17 mi. State Highway 6 from Sherman to Collins Co. line, $550,800. J. G. Rollins, Sherman., co engr. Noted Aug. 11.

Tex., **Sherman** — Grayson Co., making plans grading, bridging and bituminous on limestone surfacing 16 mi. Highway 78, 18 ft. $304,000. J. G. Rollins, Sherman, co. engr.

Tex., **Wharton**—Wharton Co. making plans grading and constructing 1,203 ft. concrete pile trestle bridge on 4.505 mi. Highway 12, $75,000. J. M. Nagle, Wharton, resident engr.

Oklahoma — State Hy. Dept., Oklahoma City, made preliminary plans grading and concrete surfacing 96,800 sq.yd. State Road 37 east and west of Norman, 30 ft., Cleveland Co. $235,000; also 7 in. concrete surfacing 21,120 sq.yd. State Road 3, Pottawatomie Co., $55,000. C. R. Mandigo, Capitol, Oklahoma City, engr.

Oklahoma—State Hy. Comn., Oklahoma City, making surveys grading, etc., 16 mi. State Rd. 18, Pontotoc Co., 30 ft. $80,000. C. R. Mandigo, Oklahoma City, highway engr.

Okla., **Ada**—Making plans grading, curbing and 6 in. concrete paving 11,300 sq.yd. 14th St. $35,000. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

Okla., **Blackwell**—Making plans grading, curbing and vertical fibre brick paving 9,100 sq.yd. Park St. $36,255. W. Ritzhaupt, Blackwell, engr.

Okla., **Bristow**—Making plans grading, curbing and vertical brick paving 8,275 sq.yd. West 6th St. $40,245. C. L. Wilson, Weatherford, engr.

Okla., **Muskogee**—Comrs. Muskogee Co. making plans grading and 7 in. concrete paving 21,120 sq.yd. South 24th St. $55,000. J. H. Tait, Muskogee, engr.

Okla., **Oklahoma City** — Making plans grading and 6 in. concrete paving 7,875 sq. yd. Laird and Dewey Sts. $30,075. B. M. Hart, City Hall, engr.

Okla., **Tecumseh** — Pottawatomie Co. making preliminary plans grading, etc. 7 mi. Road 8, 30 ft. $45,000. F. D. Brown, Shawnee, engr.

Okla., **Tonkawa**—Making plans curbing, grading, guttering and vertical fibre brick paving 5,875 sq.yd. East Park St. $28,275. F. D. Kilburn, Tonkawa, engr.

Okla., **Tonkawa**—Making plans grading and vertical fibre brick paving, etc. 8,850 sq.yd. streets in Dist. 16. $36,675. F. D. Kilburn, Tonkawa, engr.

Okla., **Tulsa**—Plans grading, curbing and 7 in. concrete paving 13,740 sq.yd. Elgin, Tecumseh and Woodrow Sts., $57,464; grading, curbing and sheet asphalt surfacing 17,205 sq.yd. Indianapolis, Jamestown, Knoxville, Atlanta, 2nd and Lewis Sts., $74,235; and sheet asphalt resurfacing 28,670 sq.yd. 27th, 28th, Cincinnati and Sunset Sts., $63,700.

Okla., **Wewoka**—Made preliminary surveys 150,000 sq.ft. concrete sidewalks on various streets. $30,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Idaho—J. D. Wood, comr. Pub. Wks., Boise, rejected bids Sept. 16, gravel surfacing 14,000 cu.yd. Payette Highway, Federal Aid Project 130-A, Valley Co.

California—State Hy. Dept., Sacramento, plans grading approximately 6 mi. Bay Shore Highway, between South San Francisco and Burlingame $150,000, and Bay Shore Highway from Burlingame to San Mateo $180,000; also rock and oil surfacing approximately 13 mi. highway through Rindge Ranch on Oxnard-Capistrano Highway, $200,000. R. M. Morton, Strub Bldg., Sacramento, engr.

Calif., **Alameda**—Plans widening walks and resetting curbs, etc. on Webster St. from south portal Estuary tube. To exceed $25,000.

Calif., **Berkeley**—Making plans widening and relocating electrolier system, walks, etc. on San Pablo Ave. To exceed $25,000. J. N. Edy, city mgr.

Calif., **Culver City**—Plans grading, walks and vibrolithic concrete paving, etc. Aletta Ave., etc. To exceed $25,000.

Calif., **Los Gatos**—Making plans curbing and paving, etc. Oak and College Hill Dists., etc. To exceed $25,000. H. B. Tisher, Growers Bank Bldg., San Jose, engr.

Calif., **Manhattan Beach** (P. O. Manhattan)—Made plans 5 in. concrete walks, etc. on 34th St., and National Paving, etc. approximately 5 mi. Standard Park.

Calif., **Palo Alto** — Plans paving, etc., Stanford Ave. in Mayfield section. $25,000 or more. J. F. Bxybee, Jr., city engr.

Calif., **Petaluma**—Making plans curbing and paving, etc. 9th St., etc., Acq. & Impvt. Dist. 4. To exceed $25,000. S. Gonzalez, city engr.

Calif., **Sacramento**—Made specifications asphaltic concrete paving, etc., portions 14th Ave and 65th St., etc. $25,000 or more. C. Deterding, Jr., Sacramento, co. engr.

Calif., **San Diego** — Common Council plans walks and 6 in. asphaltic concrete paving 135,945 sq.ft. Alabama St. and Monroe Ave. J. W. Jorgensen, city engr.

Bids Desired

Connecticut—See "Bridges."

N. Y., **Brooklyn**—Oct. 11, by Park Bd., W. R. Herrick, pres. Park Dept., Arsenal Bldg., Central Park, New York City, improving Shore Road Dr. between 83rd and Oliver Sts., here.

N. Y., **Brooklyn**—Oct. 14, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading West 1st and 64th Sts.; grading and sheet asphalt paving Hancock and Hewes Sts., Dumont and DeKalb Aves.

N. Y., **Buffalo** — Oct. 11, by Dept. Pub. Wks., Municipal Bldg., grading and repaving Fougeron, Playter and Wilson Sts., Prospect, Woltz and Roesser Aves. J. J. Love, comr.

N. Y., **New York**—Oct. 14, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., bituminous concrete on concrete paving East 233rd St.; grading and asphalt block on concrete paving Sheridan Ave., East 159th and East 141st Sts.; sheet asphalt on concrete Paving Van Nest Ave., grading, sidewalks, etc. Croes Ave., etc.; also sewer in Barnes Ave. and East 174th St.

N. Y., **New York**—Oct. 14, by H. Bruckner pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., improving Bronx Blvd. Former bids rejected. Noted Sept. 22.

N. Y., **St. George** — Oct. 11, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading, curbing, guttering, etc. Prospect Pl. and Bard Ave.; also grading and bituminous macadam paving Burnside Ave.

New Jersey — Oct. 17, by State Hy. Comn., Trenton, grading and 9 in. double line rein.-con. paving 55,290 sq.yd. Shore Relief Route, Revision of Route 4, Monmouth Co. A. L. Grover, ch. clk.; adv. E. N.-R. Oct. 6.

Pa., **Crafton**—Oct. 11, by J. O. Schrecke, boro clk., Boro Bldg., grading, curbing and paving Johnston St. $25,000. McCully Eng. Co., Berger Bldg., Pittsburgh, engrs.

Pa., **New Kensington**—Oct. 19, by Controllers Westmoreland Co. (Greensburg) and Allegheny Co. (Pittsburgh), paving west approach to New Kensington Bridge 10, 2nd Ave. and 9th St. $75,000. Joint Dept. Pub. Wks., Court House, Pittsburgh, and County Engineer, Greensburg, engrs.

Pa. **Pittsburgh**—Oct. 7, by City Council, grading, curbing and paving, etc. Mt. Washington Rd., Contr. 62, $100,000; and Duffield St. between Bryant and Vilsack Sts., $28,200. Bureau Engineering, Dept. Pub. Wks., engrs.

Md., **Baltimore**—Oct. 12, by Bd. Awards, improving area around Western High School, Gwynn Fallsway, Pulaski, Warwick and Wheeler Aves., 78,000 cu.yd. excav., 5,200 sq.yd. cement walks, 3,510 sq.yd. roads, 1,264 lin.ft. 8- to 16-in. terra cotta pipe, etc. $85,000. H. G. Perring, Hearst Tower Bldg., superv. engr.

Md., **Baltimore**—Oct. 12, by Bd. Awards, curbing and sheet asphalt on concrete paving 3,180 sq.yd. streets listed in Contr. 438. N. L. Smith, City Hall, acting highway engr.

West Virginia — Oct. 18, by State Road Comn., Charleston, grading and bituminous macadam paving 3.88 mi. Sophia-Ury Rd., Project 3390-A, and 3.72 mi. Ury-Amigo Rd., Project 3390-A, Raleigh Co.; grading, etc. 1.37 mi. Johnycake-Iaeger Rd., Project 3385, 5.33 mi. Iaeger-Roderfield Rd., Project 3386-B and 3.46 mi. same road Sect. C, all McDowell Co. E. B. Carskadon, secy.

W. Va., **Lewisburg**—Oct. 8, by Greenbrier Co. Court, grading, creek gravel surfacing, etc. 7,368 lin.ft. Tuckahoe Rd., 4 mi. Anthony Creek Rd., 3.5 mi. Big Draft Rd., 1,034 lin.ft. Drewry St., 1,100 lin.ft. Old Alleghany Rd., 2,367 lin.ft. Caldwell-Monroe Draft Rd., 863 ft. White Sulphur Co.-Clark St. Rd., 485 lin.ft. Cabells Alley, 400 lin.ft. Salisburg Ave., 3,947 ft. streets in Atkinson Addition, also 3 bridges, etc. all in White Sulphur Dist. J. K. Monroe, co. road engr.

W. Va., **New Martinsville** — Oct. 8, by Wetzel Co. Court, grading and gravel or crushed slag surfacing 2.5 mi. Jacksonburg-Pine Grove Rd., Project 3-A. G. A. Harman, co. clk.

W. Va., **Weston**—Oct. 10, by Lewis Co. Court, limestone, 2½ in. lake asphalt or Kentucky rock asphalt surfacing 1.3 mi. road in Freemans Creek Dist. C. E. McGinnis, co. clk.

North Carolina — Oct. 18, by State Hy. Comn., Raleigh, grading, concrete or asphaltic paving 4.91 mi. Project 1051, Beauford Co. $105,000, and 15.9 mi. Project 286, Wayne Co. $342,000; clearing, grading, etc. 15.146 mi. Project 335, Columbus Co. $75,000, 8.19 mi. Project 561, Montgomery Co. $53,000, and 3.957 mi. Project 776, Wilkes Co. $26,000; also grading, top soiling, etc. 15.062 mi. Project 4380, Harnett Co., $90,000. L. R. Ames, co. engr.

Ga., **Ocilla**—Oct. 18, by J. A. Henderson, city clk., curbing, guttering, walks and rein.-con. or asphaltic paving, ete., 31,884 sq.yd. various streets. O. H. Lang, Moultrie, consult. engr.

Ala., **Birmingham** — Nov. 1, by City Comn., 6 in. concrete paving 5 blocks Center St., 30 ft., $21,850; curbing, guttering, walks and 2 in. asphalt on 6 in. concrete paving 12 blocks Graymont Ave., 50 ft., $81,700; 2½ in. asphalt on 6 in. concrete paving 4 blocks 11th Ave., $19,500; curbing, guttering, walks and 2 in. asphalt on 5 in. concrete paving 3 blocks 5th Way,

Constr. News page 179

For surfacing concrete — quicker, better, and at less cost

Ingersoll-Rand Company has developed a new lightweight air tool for use in finishing the surfaces of concrete and stone.

This machine (known as Size 6G) will quickly and easily remove all form marks from concrete and prepare the surface for a flat finish or for painting. It is ideal for cleaning, smoothing, and finishing concrete walls, bridges, and buildings. It will surface either "green" or old concrete.

It saves time and labor and does a far better job than other devices. The machine weighs only 13¾ lbs. with wheel and is easy to handle in any position. Ask for complete information.

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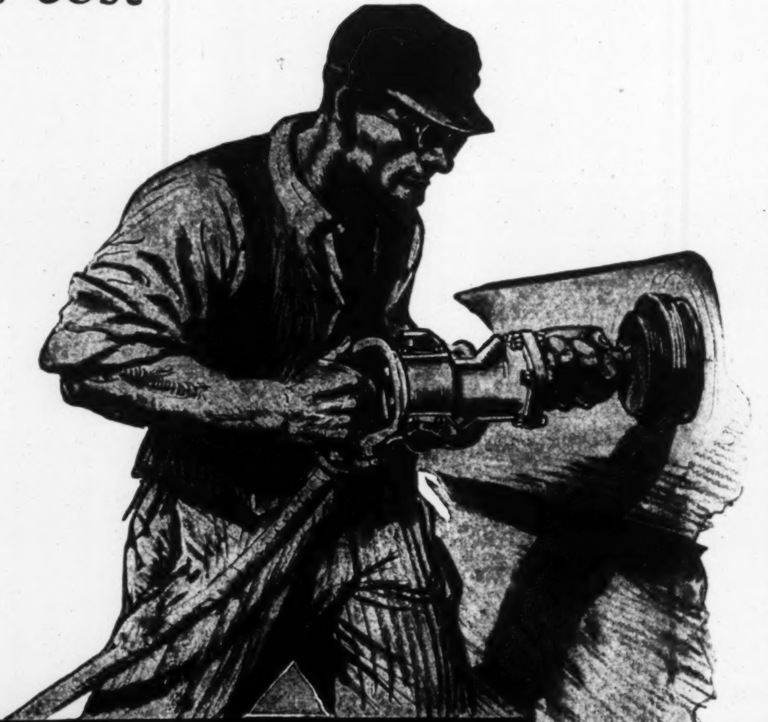

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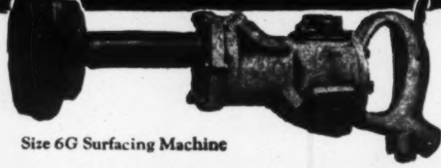

Size 6G Surfacing Machine

Ingersoll-Rand Size 6G Surfacing Machines smoothing up a concrete wall. The tools are being operated from an I-R Portable Air Compressor.

117-PC

Ingersoll-Rand

Streets and Roads (Continued)

Ensley, $15,600; 2 in. asphalt on 5 in. concrete paving 2 blocks 10th Ave., Ensley $10,500, 2 blocks roadway $10,350, and 2 blocks Ave. Q, Ensley and 2nd Court W. $10,965 all 30 ft., wide; 2½ in. asphalt on 5 in. concrete paving 5 blocks 4th Ave. W., 40 ft. $30,880; also 8 in. concrete paving 5 blocks 5th Alley, 20 ft., $12,350. A. J. Hawkins, city engr.

Miss., Grenada—Oct. 14, by Bd. Supervs. Grenada Co., improving 10.64 mi. Federal Aid Project 147-B, 18 ft., 22,262 cu.yd. gravel 1 mi. haul, 210,098 units overhaul and 99,874 sq.yd. mixing; also 33,393 tons sand clay and washed gravel, f.o.b. Grenada. H. C. Dietzer, Jackson, engr.

Louisiana—Oct. 18, by State Hy. Comn., Baton Rouge, graveling 14.751 mi. Bossier City-Arkana Highway, Federal Aid 154-C, Bossier Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Louisiana—Oct. 20, by State Hy. Comn., Baton Rouge, graveling 7.12 mi. Creston-Saline Highway, State Project 426-B, Natchitoches Parish. N. W. Bowden, Baton Rouge, highway engr.

Kentucky—Oct. 28, by State Hy. Dept., Frankfort, surfacing 7.6 mi. Columbia-Liberty Rd., State Aid Project 23-A, Adair Co., and 3.1 mi. Shelbyville-Cropper Rd., State Aid Project 160-B; also grading, etc. 2.6 mi. Beattyville-Jackson Rd., State Aid Project 29-E, Lee Co. E. N. Todd, highway engr.

O., New Philadelphia—Oct. 15, by Comrs. Tuscarawas Co., grading, etc., 3½ mi. Dennison Natl. Rd., 30 ft. $66,428. Noted May 5.

Wisconsin—Oct. 11, by State Hy. Comn., Citizens Natl. Bank Bldg., Wisconsin Rapids, concrete paving, etc., 89,259 sq.yd. U. S. Highway 51; Federal Aid Project 449-C, Marathon Co.; and 70,716 sq.yd. S. T. H. 73, Federal Aid Project 440-A, Wood Co. N. M. Isabella, div. engr.

Iowa — Oct 10, by State Hy. Comn., Ames, grading and concrete paving 21,444 sq.yd. Primary Project 85, through town What Cheer.

Minnesota—Oct. 18, by State Hy. Comn., St. Paul, **(F.A.P. means Federal Aid Project and S.P. State Project)**, grading 179,000 cu.yd. S.P. 4-41, and 222,500 cu.yd. S.P. 4-42, F.A.P. 406, 300,000 cu.yd. S.P. 7-42, F.A.P. 408, and 741,000 cu.yd. S.P. 20-34, F.A.P. 411; grading 220,000 cu.yd. and constructing Bridges 4757 and 4758, on S.P. 7-40, Sect. 2, F.A.P. 365; graveling 25,950 cu.yd. S.P. 2-34; graveling 25,950 cu.yd. S.P. 2-34; and concrete paving 115,000 sq.yd. S.P. 5-31, Sect. 1, F.A.P. 91,200 sq.yd. S.P. 5-31, Sect. 2, and 27,200 sq.yd. S.P. 5-31, Sect. 3, F.A.P. 380, 29,000 sq.yd. S.P. 5-36, Divs. B and C, F.A.P. 345, 45,000 sq.yd. S.P. 51-21, F.A.P. 288, and 81,200 sq.yd. S.P. 52-21, F.A.P. 381. State Hy. Dept., St. Paul, engrs.

Kan., Ashland—Oct. 14, by Clark Co., grading and twenty-three 21 span bridges on 1.122 mi. K. 21, Project 365-A.

Kan., Hutchinson—Oct. 20, by Clerk Reno Co., concrete or bituminous concrete paving, etc. 3 mi. Federal Aid Project 83-A, 18 ft. W. A. Stacey, Hutchinson, co. engr.

Nebraska—Oct. 11, at Office District Engineer, Neligh, graveling 0.6 mi. and constructing three 100 ft. span pony truss bridge, 20 ft. roadway, on Federal Aid Project 139-C, Antelope Co.; also one 40 ft. I-beam span bridge, on O'Neill-Ewing Rd., Federal Aid Project 200-A, Holt Co., for Antelope Co. (Neligh) and State Hy. Comn. (Lincoln).

N. D., Minot—Oct. 11, by C. A. Reishus, city aud., rein.-con., asphaltic concrete or warrenite bitulithic paving approximately 8 blocks in Paving Dists. 30, 32, and 33. $32,000. W. W. Peterson, city engr. Noted Sept. 29.

Mo., St. Joseph—City Clerk, taking bids concrete paving Franklin St. $740, and 1,015 sq.yd. 1 alley $2,300; 6 in. concrete paving 1,208 sq.yd. 1 alley, $2,300; 6 in. concrete paving 1,208 sq.yd. Yale St. $3,700; also brick repaving 4,920 sq.yd. Messanie St. from 22nd to 26th Sts. $14,000, and 5,725 sq.yd. Messanie St. from 16th to 22nd Sts. $16,500. W. M. Spann, City Hall, engr.

Ark., Paris — Nov. 9, by J. J. Wallace, chn. comrs., Street Impvt. Dist. 1, grading, curbing and concrete, asphalt or brick paving 63,000 sq.yds. various streets, Ford & MacCrea, Gazette Bldg., Little Rock, engrs.

Tex., Austin—Oct. 13, by A. R. Johnson, city mgr., concrete paving 35 alleys, 20 ft. $40,200. O. E. Metcalfe, City Hall, engr. Noted Sept. 29.

Tex., San Antonio—See "Unclassified."

Tex., San Benito—Oct. 12, by City, curbing and concrete paving 15,000 sq.yd. various streets. S. Brown, San Benito, mayor.

Tex., San Benito—F. L. and B. W. Hinkley taking bids alternate types paving streets in sub-division. $30,000. Private plans.

Okla., Oklahoma City — Oct. 11, by M. Peshek, city clk., grading, curbing and sheet asphalt paving 7,470 sq.yd. Gatewood and 18th Sts. $34,900. B. M. Hart, City Hall ,engr.

Okla., Seminole—Oct. 11, by P. Noe, city clk., grading, curbing and 7 in. concrete surfacing 20,110 sq.yd. Dists. 12, 13 and 14. $72,600. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Colorado — Oct. 10, by State Hy. Dept., Denver, grading 16.673 mi. road between Wiggins and Roggen, on Highway 52, Project 580-C, Morgan and Weld Counties, and 0.299 mi. Blackhawk on State Highway 119, Project 552-C, Gilpin Co.; concrete paving 2,710 sq.yd. at Morrison on Highway 8, Federal Aid Project 279-D, Jefferson Co.; gravel surfacing 4,750 cu.yd. road between Deer Creek and Littleton on Highway 124, Project 560, Jefferson Co.; also four 23 ft. span of timber trestle with graded approaches at Conejos River, on Highway 142, east of Romeo, Project 664, Conejos Co. L. D. Blauvelt, State Office Bldg., Denver, engr.

Calif., Fullerton—F. C. Hezmalhalch, city clk., taking bids grading, curbing and asphaltic concrete paving portions North Princeton and North Yale Sts., etc. $25,000 or more.

Washington — Oct. 25, by State Hy. Comn., Olympia, **(S. R. means State Road)**, grading, etc., 88,960 cu.yd. S. R. 5, Yakima Co.; grading, crushed graveling, etc., 5,820 cu.yd. S. R. 2, Douglas Co; also gravel resurfacing, etc, 7,300 cu.yd. S. R. 14, Mason Co., and 9,000 cu.yd. S. R. 9 Clallam Co. S. J. Humes, state highway engr.

Calif., San Diego—Oct. 17, by Common Council, grading, curbing, walks and 6 in. asphaltic concrete paving 271,911 sq.ft. 47th St. and Menlo Ave., etc.; also grading, curbing, walks and 5 in. concrete paving 103,562 sq.ft. Alabama St. H. W. Jorgensen, city engr. Noted Sept. 15.

Calif., Yuba City—C. C. Kline, city clk., taking bids grading, curbing, guttering and 4 in. asphaltic concrete paving, etc. 225,000 sq.ft. portions Shasta, Robinson Ave., and A St., etc. W. Shearer, city engr.

Contracts Awarded

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam and rein.-con. paving 9.371 ft. highway in Farmingham, Sudbury and Marlborough, to H. Ford, Dearborn, Mich., $1. Noted Aug. 18.

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 8,150 ft. highway in Agawam, 18 ft., to D. O'Connell & Sons, Holyoke, $51,911. Noted Sept. 15.

Massachusetts—Dept. Pub. Wks, Boston, bituminous macadam paving 1.245 mi. Project 185-A, Franklin Co., to Kelleher Corp., Turner Falls, $82,486.

Mass., Boston — Sheet asphalt paving various streets in Wards 11, 14, 15 and 18, to M. De Matteo, 14 Rowe Pl., Roslindale, $26,076. Noted Sept. 15.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, to Cranford Co., 52 9th St., grading and sheet asphalt paving Gerritsen Ave., $17,777; to W. J. McHale Contg. Co., 1250 Jefferson Ave., grading and macadam paving Gerritsen Ave., $8,687; to Castle Bros., Johnson Pl., grading East 29th St. $2,462, Avenue N. $1,043, and 50th St., $3,257, and to Grimm Contg. Co., 170 McKinley St., Pennsylvania Ave. $3,498. Grand total $36,724. Noted Sept. 22.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing and sidewalks when and where directed, to Valatia Constr. Co., 15 East 40th St., $1,359; grading and granite block paving Whitehall St., to St. George Paving Co., 415 Lexington Ave., $42,017, and 14th St., to J. Meehan & Son, 90 West St., $27,622; asphalt repaving West 158th St., to D. J. McCarthy, 88 Audubon Ave., $5,020. Grand total $76,018. Noted Sept. 8.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to I. F. Cavaluzzo, 1300 Cromwell Ave., grading West 232nd St. $15,310, Fish Ave., $8,223, Mayflower Ave. $62,119, and Lacombe Ave. $27,185, to F. Gabrielle, 2750 Creston Ave., Colden Ave. $19,895, to Gramaglia Bros., 48 East Kingsbridge Rd., East 237th St. $7,778; to Gaffney Constr. Co., Storey and Hermany Aves., grading and sheet asphalt paving Ward Ave. $23,265 and Manor Ave. $42,358; to C. D. Beckwith Inc., Seneca Ave. and Edgewater Rd., Morrison Ave. $22,493, to Asphalt Constr. Co., 2197 Madison Ave., Tryon Ave., $14,593, and Popham Ave. $10,888, bituminous concrete paving East 182nd St. $17,673, concrete paving Reservoir Ave. $11,960. Noted Sept. 22. Grand total $283,740.

N. Y., New York — A. Goldman, comr. Plant & Structures, Municipal Bldg., reconstructing curbing and footwalk on westerly side Riverside Dr., to Fox Reynolds Co., 81 East 125th St., $38,649. Noted Sept. 22.

N. J., Hackensack—Bergen Co., Court House, concrete paving Bergen Turnpike from Hudson Co. line to Edgewater Ave., to G. W. Brewster & Sons, Ft. Lee Rd., Bogota, $225,476., and River Rd., to J. J. McGarry, Edgewater, $148,980.

N. J., North Arlington (mail Arlington)—Bd. Comrs., Boro Hall, grading and 6 in. concrete paving Sunset and Belmont Aves., here, to Nesto Constr. Co., 423 Amherst St., East Orange, $95,705.

N. J., North Bergen (Ind. br. Weehawken)—Bd. Freeholders Hudson Co., Court House, Jersey City, sheet asphalt repaving Paterson Plank Rd., here, to J. J. McGary, Edgewater, $29,638.

N. J., Woodbury—Gloucester Co., grading and rein.-con. paving 18,684 sq.yd. Hessian Ave., to J. Salvucci, 512 North 65th St., Phila., Pa., $58,595; and Paulsboro-Swedesboro Rd., to H. L. White, 3057 Kearsarge Rd., Camden, $59,850. Noted Sept. 22.

Pennsylvania—State Hy. Comn., Harrisburg **(R. means Route and A. Application)** concrete paving, etc. 5,544 sq.yd. R.370, Dauphin Co., to Continental Contg. Co., Knickerbocker Bldg., Baltimore, Md. $28,452; 12,750 sq.yd. R.108, Washington Co., to B. Franklin, Jr. Co., 906 Crozier Bldg., Phila., $91,938; 34,299, sq.yd. R.46, Huntingdon Co., to Paul Constr. Co., Inc., Cresson $138,889; 14,000 sq.yd. R.161 Northumberland Co., to D. W. Davis & Sons, 19 Union St., Kingston $165,608; 1,174 sq.yd. R.112, Greene Co., to E. E. Morris, Waynesburg $3,698; 8,318 sq.yd. R.493, S-1, Blair Co., to C. Winters Constr. Co., 212 North Main St., Butler $36,520, and 11,096 sq.yd. R.545, Washington Co., to Jones Constr. Co., Beallsville $55,570; rein.-con. paving, etc. 43,400 sq.yd. R.140, A.4840, Dauphin Co., to W. G. Raub, Red Lion $178,063, and 39,278 sq.yd. A.305, 306 and 351, Westmoreland Co., to M. J. McMahon, Deposit Nat'l Bank Bldg., Du Bois $172,025; also asphaltic macadam paving, etc. 27,019 sq.yd. A.4583, Bucks Co., to J. M. Hutchison, Altoona, $58,566. Grand total $929,329. Noted Aug. 18.

Md., Baltimore — Bd. Awards, curbing and concrete paving 6,200 sq.yd. streets listed in Contr. 435, to Mahoney Bros., 1111 Rutland Ave., $13,939; and sheet asphalt paving 5,870 sq.yd. Contr. 434, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $25,462. Noted Sept. 15.

West Virginia — State Hy. Comn., Charleston, grading, etc., 4.73 mi. Project 3358-B, and 1.22 mi. Project 3358-A, Fayette Co., to Keeley Constr. Co., Clarksburg, $73,396 and $67,104 respectively. Noted Aug. 11.

W. Va., Clarksburg—Brick paving portion Goff Ave., to Woodford & Davis, Clarksburg, $28,322.

W. Va., Fayetteville — Comrs. Fayette Co., Court House, rock surfacing 2.5 mi. Lower Loup Creek Rd., to Highway Constr. Co., Oak Hill, $26,100.

Ala., Birmingham — City Comr. **(e. e. means engrs. est.)**, 2 in. asphalt on 6 in. concrete paving 7 blocks Ave. C, Ensley, 40 ft., to Morgan Hill Paving Co., Woodward Bldg., $27,407 e. e. $43,500, 3 blocks 6th St. W., 4th Court W., and 5th Pl. W., 30 ft., to D. A. Burton, Jackson Bldg., $15,018 e. e. $21,450, and 3 blocks 6th St. W., and 7th Ave., 30 ft., to Dunn Constr. Co., Lincoln Life Bldg., $18,574 e. e. $20,500; also grading, curbing, guttering, walks and 2 in. asphalt on 6 in. concrete paving 2 blocks 3rd Ave. S., 40 ft., to Southern Roads Co., Pioneer Bldg., $15,122 e. e. $16,600, 2 blocks 52nd Pl., 52nd Way, 53rd St., and 9th Ave. N., 30 ft., to Newell Constr. Co., Martin B'dg., $13,762 e. e. $15,985; also 6 in. concrete paving 1 block Bush Blvd. Alley, 20 ft., to Camp & Pearson, Amer.-Trades Bldg., $2,248 e. e. $3,125. Grand total $92,131.

Miss Canton — Madison Co., grading, graveling, etc. 6 mi. Sharon-Canton Highway, 18 ft., to H. Maxwell, Brookhaven. Noted Sept. 1.

Miss., Jackson — Grading and concrete paving portion North St., also 1 culvert at Eazel and Gillespie Sts., to Dunn Constr. Co., Merchants Bank Bldg., $38,504; sidewalks on North St. and water tables at Commerce St., to Owen & Gaddis, 810 South Gallatin St., $9,755.

Louisiana — State Hy. Comn., Baton Rouge, graveling 6.19 mi. Robeline-Cypress Highway, State Project 430-B, Natchitoches Parish, to J. F. Salter, Cypress, $39,702; and 1.635 mi. Many-Zwolle-Converse High-

Streets and Roads (Continued)

way, Sabine Parish, to F. P. Jones, Leesville, $20,086. Noted Aug. 18 and Sept. 1.

O., Cincinnati—C. O. Sherrill, city mgr., City Hall, **(e. e. means engrs. est.)**, to E. A. Freshwater & Sons Co., Cleveland, granite block repaving 8,300 sq.yd. (new blocks) and 8,300 sq.yd. (old blocks) Baymiller St., $132,098 e. e. $156,261, walks and granite block repaving 2,200 sq.yd. (new) and 3,000 sq.yd. (old) repaving McMicken Ave., $31,477 e. e. $37,577, also curbing, grading, walks and concrete repavnig 16,000 sq.yd. Montana Ave., $63,733 e. e. $79,820. Grand total $227,308. Noted May 19 and Apr. 14.

O., Cleveland — Cuyahoga Co., paving, etc., Wallings Rd. 4, to Loesch & Green, State Rd., Parma, $48,821. Engrs. est. $53,900.

O., Cleveland — Cuyahoga Co., grading, curbing and concrete resurfacing 4,000 sq.yd North Miles Rd., to F. W. Stollfus, 4655 South Hills Blvd., $141,043.

O., Cleveland — Cuyahoga Co., grading, etc., 110,000 cu.yd. South Woodale Rd., to Stroman & Kidder, Ridge Rd., $46,750. Engrs. est. $72,400.

O., Parma (br. Cleveland)—Macite surfacing 6 streets, to Baldwin Bros., 4500 Euclid Ave., Cleveland, $124,325; and 4 streets, to W. E. McHugh, West 72nd St. and Western & Lake Erie R.R. tracks, Cleveland, $32,880.

Michigan—C. H. Brown, resident engr., 14380 Wyoming Ave., Detroit, concrete paving 3.984 mi. State Assessment Dist. 471, 20 ft., Macomb and Oakland Counties, to W. G. Tatti, 1337 Three Mile Dr., Detroit, for State Hy. Dept., Lansing. $175,848. Noted Sept. 8.

Michigan—State Hy. Dept., Lansing, asphalt (bituminous) paving 2.946 mi. State Trunk Line Rd. MO67-25 C1, 18 ft., Osceola Co., to State Constr. Division, Lansing. A. L. Bunidge, Cadillac, supt., $59,467.

Michigan—State Hy. Dept., Lansing, concrete paving 3.061 mi. State Trunk Line Road MO70-22, Contr. 1, 20 ft., Ottawa Co., to State Contr. Division, C. M. Zeigler, supt., Capitol Natl. Bank Bldg., Lansing, $103,045.

Michigan—State Hy. Dept., Lansing, concrete paving 3.416 mi. State Trunk Line Road MO41-30, Contr. 1, 20 ft., Kent Co., to State Constr. Division, C. M. Zeigler, supt., Lansing, $124,729.

Mich., Detroit—Concrete curbing and one course 8 in. concrete paving 12,555 sq.yd. Marygrove Dr., to Detroit Asphalt Paving Co., 909 Transportation Bldg., $29,066, 3,814 sq.yd. Desgrandchamps and Yolanda Aves., to Bishop & Weir, 955 East Jefferson Ave., $10,135.

Mich., Pontiac—For 8 in. concrete paving approximately 93,900 sq.yd. John R. Rd., Oakland Co., 20 ft., to C. A. Handyside Constr. Co., General Motors Bldg., Detroit, $322,500.

Ia., Adel—Dallas Co., to McCoy & Nelson, Nevada, improving secondary system, 11,268 cu.yd. gravel 1 mi. haul at $0.24 and $0.35 per cu.yd., 72,276 units overhaul $0.064 and $0.08, also 3,804 cu.yd. crushed gravel $0.06. Noted Aug. 11.

Ia., Cresco — Howard Co., to C. Byers, Cedar Rapids, improving secondary roads, 12,227 cu.yd. gravel 1 mi. haul at $0.48 per cu.yd. 87,592 units overhaul $0.085, and 2,000 cu.yd. stripping $0.20, to W. R. Garland, New Hampton, 3,309 cu.yd. gravel 1 mi. haul $0.34, 2,118 units overhaul $0.07, and 800 cu.yd. stripping $0.19.

Ia., Emmetsburg — Palo Alto Co., to Prereton & Bauck, Emmetsburg, improving secondary roads, 7,000 cu.yd. gravel 1 mi. haul at $0.39 per cu.yd., 39,000 units ½ mi. haul $0.07 and 3,200 cu.yd. stripping $0.20; to C. Byers, Primghar, 6,000 cu.yd. gravel 1 mi. haul $0.40, 64,500 units overhaul $0.07, and 3,000 cu.yd. gravel stripping $0.20.

Ia., Hampton—Franklin Co., grading, concrete paving, etc. 140,880 yd. Project 538, and 107,335 yd. Federal Aid Project 212, to Harrison Engr. & Constr. Corp., 506 Mutual Bldg., Kansas City, Mo. at $2.24 per yd.

Ia., Logan — Harrison Co., improving 7.036 mi. Federal Aid Project 14, Sects. A and E, 21,153 cu.yd. earth excav. and 75,134 yd. concrete paving, to Natl. Constr. Co., 1315 South 29th St., Omaha, Neb. $0.35 per cu.yd. and $2.21 per yd. respectively; and grading 128,796 cu.yd. road, to G. W. Condon Co., 514 Federal Reserve Bank Bldg., Omaha, Neb., at $0.198 per cu.yd.

Ia., Orange City — Sioux Co., to A. L. Albrecht, Storm Lake, improving county road system, 7,700 cu.yd. gravel 1 mi. haul at $0.30 per cu.yd. 39,000 units overhaul $0.074, 7,500 cu.yd. stripping $0.21, and 500 cu.yd. channel cut $0.30. Noted Aug. 25.

Ia., Pocahontas—Pocahontas Co., to C. F. Betz, Sioux City, improving roads, 36,546 cu.yd. excav. at $0.28 per cu.yd., 150 cu.yd. loose rock $1.25, 25,416 sta. overhaul $0.02, and 600 ft. culvert labor $0.35.

Ia., Sioux City—Woodbury Co., grading, etc. 384,010 cu.yd. Federal Aid Project 2, to E. V. Martin, Ames, at $0.213 per cu.yd.

Ia., Toledo—Tama Co., to Mackie & McCoy, Waterloo, improving secondary roads, 45,007 cu.yd. excav. at $0.22 and $0.23 per cu.yd., 25,000 cu.yd. overhaul $0.02, 100 ft. culvert labor $0.30; to W. Dutton, Boone, 22,390 cu.yd. excav. $0.28, 7,000 units overhaul $0.02, and 100 ft. culvert labor $0.30; to Foley Bros., Anamosa, 50,800 cu.yd. excav. $0.255, 180,000 units overhaul $0.02, and 340 ft. culvert labor $0.30.

Ia., Vinton—Benton Co. to G. H. Lowe, Garrison, improving roads, 80,000 cu.yd. earth excav. at $0.247 per cu.yd. 200 cu.yd. loose rock $0.80, 200 cu.yd. solid rock $1.50, 50,000 units overhaul $0.02, and 1,400 ft. 12- to 18-in. culvert labor $0.20 and $0.25.

Ia., Vinton—Benton Co., to Bryant Paving Co., Waterloo, improving 1.173 mi. Project 504, 1,857 cu.yd. excav. at $0.60 per cu.yd., 2 flumes $75 each, and 12,382 yd. concrete paving $2.49.

Kan., Belleville—Republic Co., to Western Bridge Co., 748 Peters Trust Bldg., Omaha, Neb., grading 5.536 mi. Project 314-B $27,299, three 30 ft. deck girder span bridge on same road $7,773, grading 1.515 mi. Project 116-A $7,681, and bridge on same $2,299. Grand total $45,052.

Kan., Eldorado—Butler Co., grading and 3 bridges, etc. on 3.788 mi. Project 68-B, also grading and culverts on 4.557 mi. Project 69-A, to Stmison Constr. Co., 1516 Boswell Ave., Topeka, $42,046; 8 mi. Project 67-F, to M. R. Amerman, 246 North Market St., Wichita, $47,487; Bridge IE 263, one 120 ft. truss and two 40 ft. I-beam approach spans, to Missouri Valley Bridge & Iron Co., Leavenworth, $21,190; Culvert IE2263, 10 ft. concrete box, to E. King, Hesston, $11,057. Grand total $121,780.

Kan., Hiawatha — Brown Co., sand graveling 9.8 mi. Project 125-A, to Reed & Wheelock, Clay Center, $23,128; and concrete paving 0.415 mi. Project 274-E, to M. W. Watson, Topeka, $23,338.

Kan., Kansas City—Wyandotte Co., grading and concrete paving 52,586 sq.yd. Bonner Springs Rd., Highway 7, to Reed & Wheelock, Clay Center, $109,095. Engrs. est. $119,583.

Kan., Newton—Vitr. brick paving 20,427 sq.yd. various streets, to Stanton & Wallace, Leavenworth, at $1.80 sq.yd.

Kan., Salina—Saline Co., grading and constructing 12 bridges on 9.775 mi. U. S. 40 S, Project 101-D, to A. L. Cook, Ottawa, $46,419 and $29,844 respectively.

Mo., Desoto—Grading and concrete paving approximately 8,800 sq.yd. Main St., to Fogelman & Davidson, Desoto. Engrs. est. $26,000.

Mo., St. Louis—Stedelin Bros., 823 North 4th St., grading approximately 150,000 cu.yd. on 50 acre subdivision, Gravois Ave. and Meramec St., to Manegold Contg. Co., 211 Title Guaranty Bldg. Engrs. est. $30,000.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, grading, etc. Goodfellow St., to J. T. McMahon, 1514 Farragut Ave. $12,106, Esther St., to M. J. Smith, 6771 Nashville Ave. $1,972, Iron St., to Bridges Asphalt Paving Co., 3900 Chouteau Ave., $1,565, and spaces for sidewalks on 12th St. between Park Ave. and Hickory St., to F. M. Luth, 4135 Flora Ave. $1,017; also 20 ft. rein.-con. paving Sublette Ave., to Skrainka Constr. Co., Security Bldg., $6,864. Grand total $23,524. Noted Sept. 1.

Mo., University (St. Louis P. O.)—Grading, 7 in. concrete paving, etc., 5,680 sq.yd. Forsythe Blvd., to Skrainka Constr. Co., Security Bldg., St. Louis, $17,260; and 14,770 sq.ft. concrete sidewalks on Highland Ave., also 15,000 sq.ft. Corbitt Ave., to W. Watters, 2611 South Kingshighway, St. Louis, $8,377.

Mo., Warrenton — Grading, curbing and amiesite paving 20,860 sq.yd. Main St., to Cameron Joyce & Co., Keokuk, Ia., $48,779. Noted June 16.

Ark., Prescott—Grading, curbing and concrete paving 33,700 sq.yd. Street Impvt. Dist. 4, to Turk Constr. Co., Little Rock. Engrs. est. $80,000.

Tex., Laredo — Webb Co., grading and bridging 12.46 mi. Highway 12-A, Federal Aid Project 436-B, to H. B. Zachary, Laredo, $84,815.

Okla., Edmond—Grading and gravel surfacing 4,100 cu.yd. Jackson Blvd., to L. Hamilton. Pauls Valley, $36,953. Engrs. est. $40,000.

Okla., Holdenville — Grading and 6 in. concrete paving 8,540 sq.yd. South Gulf St., to H. L. Cannady & Co., 1122 South Lewis St., Tulsa, $22,711. Engrs. est. $25,000.

Calif., Hollister—E. Dowdy, clk., San Benito Co., oil macadam paving, etc. various roads, to Granite Constr. Co., Watsonville, approximately $42,500.

Okla., Maud—Grading, curbing and 7 in. concrete paving 6,200 sq.yd. Oxford St. and Bway., to Standard Paving Co., 1742 East 6th St., Tulsa, $32,991. Engrs. est. $[illegible],320.

Okla., Oklahoma City—Grading, curbing and sheet asphalt paving 7,900 sq.yd Phillips and Everest Aves., to Western Paving Co., Tradesmens Bldg., Oklahoma City, $46,498. Engrs. est. $47,100.

Okla., Shawnee — Grading, curbing and sheet asphalt paving 20,330 sq.yd. streets in Dist. 46, to H. L. Cannady & Co., 1122 South Lewis St., Tulsa, $113,209. Engrs est. $115,000.

Idaho—J. D. Wood, comr. Pub. Wks. Boise, grading, crushed graveling, etc., 28,000 cu.yd. Sawtooth Park Highway between Rogerson and Nevada line, Federal Aid Project 141-A, to C. A. Robinson, Twin Falls, $70,599. Engrs. est. $66,472.

Idaho, Boise—Bd. Pub. Wks., improving Original Local Gutter Impvt. Dist. 1, 18,16[illegible] sq.yd. concrete guttering, 4,707 sq.yd. concrete paving and 3,375 ft. 10- to 18-in siphons, to Morrison & Knudson Constr. Co., 319 Bway., $47,987.

Nevada—Dept. Pub. Wks., Carson City, constructing portion Federal Aid Project 102-A, Ormsby and Douglas 3D, Contr. 168, Ormsby and Douglas Counties, to Isabell Constr. Co., Fresno, Calif., $210,310. Noted Sept. 15.

Washington—State Hy. Comn., Olympia, crushed graveling 20,500 cu.yd. Stevens Pass Highway, Chelan Co., to Rock Constr. Co., 1514 South Ainsworth St., Tacoma, $29,110; grading and 18 ft. graveling 2,32[illegible] cu.yd. State Road 5, King Co., to L. Ramona & Powers, 507 Thompson Bldg., Seattle, $78,213; also 120 ft. rein.-con arch bridge over Touchet River, at Dayton, Columbia Co., to S. Boudrye, P. O. Box 73, Clarkston, $23,717. Grand total $131,040. Noted Sept. 8.

Wash., Seattle — Bd. Pub. Wks., 8 in. concrete paving, etc., 13,080 sq.yd. Ellis Ave. et al, to Fiorito Bros., 3950 6th St. N. W., $34,193; 6 in. concrete paving 8,020 sq.yd. Waverly Pl. et al, to Odman Constr. Co., 7100 55th St. S., centrifugal cast pipe, $31,181; and concrete sidewalks on 8th Ave. S. et al, to Badolato & Arcoracex, 10th Ave. S. and Southern St., $124,331. Grand total $189,705. Noted July 14.

Calif., Alhambra—Curbing, walks, guttering and 5 in. asphaltic concrete paving, etc. San Clemente Ave., to Hall-Johnson Co., 905 Westminster Ave., $39,966. Noted Apr. 7.

Calif., Bakersfield—Warrenite on asphalt paving, etc., East 19th St., etc., to Union Paving Co., Call Bldg., San Francisco, $33,935.

Calif., Hawthorne—To G. H. Oswald, 366 East 58th St., Los Angeles, grading, curbing, walks and asphaltic concrete paving, etc. portions Wallace St. $48,175, and Connecticut Ave. $98,495, also curbing, guttering, walks, concrete and asphaltic concrete paving, etc. New Hampshire Ave. $28,245. Grand total $174,915.

Calif., Los Angeles—Grading, concrete and asphaltic concrete paving, etc. Spring St. between Temple and 1st Sts., to Griffith Co., Railway Bldg., $32,012; also grading and concrete paving Keniston Ave. between Country Club Dr. and San Vicente Blvd., to G. H. Oswald, 366 East 58th St., $25,147.

Calif., Los Angeles—See "Sewers."

Calif., Los Angeles — To G. H. Oswald, 366 East 58th St., grading and concrete paving Sexon Dr. between Cunard St. and Delevan Dr. $29,137, Pico Blvd. $117,225, and West Blvd. $46,600; to W. Liddington, 420 East 60th St., Orange Dr. between Beverly Blvd. and 3rd St. $25,943, 5th St. between Bolyston St. and Lucas Ave. $60,191, and Hyperion Ave. between Fountain Ave. and Sunset Blvd. $26,859; to Hanrahan Co., Standard Oil Bldg., San Francisco, Los Feliz Blvd. between Griffith Park and Vermont Ave. $269,116; to Griffith Co., Railway Bldg., Buell St., $76,998; to J. L. McClain, 3452 West Slauson Ave., Sherman Way, $160,995; also to Spencer & Holt, Frost Bldg., Moorpark St. between Clybourn Ave. and Cahuenga Blvd., $30,260. Grand total $843,324. Noted June 9.

Calif., Los Angeles — Los Angeles Co., grading and concrete paving, etc. Waltonia Dr., etc. Impvt. 453, to W. H. Goff, 1921 Apex Ave., $35,838; also grading, etc. Saddle Peak Rd., to Kreider-Chase Co., 126 West 3rd St., $41,337. Noted Aug. 25.

Calif., Oakland—Grading and oil macadam paving, etc. Hyacinth Ave. and Violet St., etc., to Heafey-Moore Co., 344 High St.

Calif., Santa Ana—E. L. Vegely, city clk. grading, curbing, guttering, walks and 5 in. concrete paving 20,220 sq.ft. and 4 in. as-

Streets and Roads (Continued)

phaltic concrete paving 101,249 sq.ft. Custer and Logan Sts., etc. to S. Finley, 204 East 4th St., $26,365.

Calif., Santa Ana—Orange Co., widening and repaving Newport Ave., 133,880 sq.ft. gravel shoulders and 10,350 tons asphaltic concrete, to Griffith Co., Railway Bldg., Los Angeles, $52,590; also widening and concrete paving, etc. 10,025 cu.yd. same avenue, to Wells & Bressler, Santa Ana, $85,399.

Calif., Willows—Supervs. Glenn Co., 5 in. Warrenite bithulithic paving, etc. Elk Creek-Willows Rd., to Clark & Henery Constr. Co., Chancery Bldg., San Francisco, $71,405. Noted Aug. 4.

B. C., Ocean Falls—Grading and graveling 1 mi. Martin Valley Rd., 14 ft., to Pacific Mills Ltd., Ocean Falls. $30,000.

Buildings—Commercial

Proposed Work

Me., Portland—APARTMENT HOTEL—Finks Bros., 235 Middle St., having plans prepared by C. L. Lane, 77 Roberts St., 13 story and basement, 100 x 150 ft., rein.-con., brick and steel, High St. To exceed $150,000.

Mass., Boston—AMUSEMENT PALACE—C. Chironis, pres. Quality Lunch, Inc., Brookline, plans 2 story and basement, 170 x 170 ft., amusement palace, incl. dance hall, club rooms, bowling alley, billiard rooms, card rooms, etc., Soldiers Field, here. $400,000. Engineer and architect not selected.

R. I., Lonsdale—TEMPLE—Unity Lodge 34, c/o U. G. Upham, archt., Bigelow Blk., Norwood, Mass., having revised plans prepared 2 story and basement, brick and stone masonic temple, plain foundation. $150,000. Former bids rejected. Noted May 12.

Conn., Bridgeport — HOSPITAL — Park City Hospital, 695 Park Ave., had plans prepared by L. Asheim, 211 State St., altering and constructing hospital addition. $200,000 funds being raised for same.

Conn., Hartford—BUSINESS—G. Fox & Co., Inc., 970 Main St., plans business building, Main and Church Sts. To exceed $150,000. Engineer and architect not selected.

N. Y., Brooklyn — BANK — East New York Savings Bank, 1118 Eastern Parkway, Brooklyn or Holmes & Winslow, archts., 15 East 38th St., New York City, take bids about Oct. 20, 2 story and basement bank, 2644 Atlantic Ave. $500,000.

N. Y., Brooklyn—THEATRE—B. S. Moss Theatres, 1560 Bway., New York City, having plans prepared by T. W. Lamb, 644 8th Ave., New York City, theatre, East Parkway, here. $750,000.

N. Y., New York—PROFESSIONAL—H. Van Rensselear, 40 East 61st St., takes bids about Oct. 14, 13 story, brick, steel and stone, concrete foundation, 40-44 East 61st St. $400,000. Noted Aug. 25.

N. Y., New York — THEATRE — J. J. Shubert, 225 West 44th St., having plans prepared by H. J. Krapp, 1 West 47th St., theatre, 1,100 seating capacity, 243 West 47th St. $250,000.

N. Y., New York—THEATRE—R. E. Hall & Co., archts., 231 West 43rd St., soon lets contract 3 story and basement, 100 x 125 ft., rein.-con., 53rd and 54th Sts. between 6th and 7th Aves., for Craig Theatre Corp. $300,000.

N. J., Asbury Park — APARTMENT — Pronto Constr. Co., c/o C. B. Cook, archt., Asbury Park Trust Bldg., having plans prepared 5 story and basement, 75 x 150 ft., brick and steel, plain foundation, 8th Ave. and Webb St. $175,000.

N. J., Atlantic City—APARTMENT—L. Schaeffer, c/o B. Ireland, archt., Guarantee Trust Bldg., having plans prepared 5 story and basement, 60 x 140 ft., brick and steel, plain foundation, 109 States Ave. $180,000.

N. J., Belleville (br. Newark)—APARTMENT—N. Harris, archt., 20 Branford Pl., Newark, soon takes bids general contract 5 story and basement, 50 x 125 ft., brick and steel, plain foundation, 169-171 Washington St., here. $150,000. Owner's name withheld. Noted Sept. 22.

N. J., Bloomfield — APARTMENT — M. Olman, 46 Maolis Ave., having plans prepared by S. Singer & A. G. Brach, 60 Park Pl., Newark, 6 story and basement, brick and steel, plain foundation, here. $250,000.

N. J., East Orange—APARTMENT—Z. & K. Holding Co., c/o E. V. and C. F. Warren, Essex Bldg., Newark, having plans prepared 4 story and basement, brick and steel, plain foundation, 115 Halstead St., here. $160,000.

N. J., East Orange—APARTMENT—J. B. Peterkin, archt., 285 Madison Ave., New York City, takes bids about Nov. 1, 10 story, brick and steel, plain foundation, 39 Prospect St., here, for Thirty-Nine Prospect Street Corp., 790 Broad St., Newark. $1,000,000.

N. J., East Orange—SHOW ROOM and GARAGE—Baldwin Constr. Co., 614 Central Ave., soon lets contract 2 story and basement, 120 x 200 ft., brick and steel, plain foundation, Railroad Plaza and Halstead St. $150,000. E. V. and C. F. Warren, Essex Bldg., Newark, archts. Noted Sept. 29.

N. J., Edgewater—APARTMENT—W. R. Campbell, c/o C. G. Mettberg, archt., 79 West Palisade Blvd., Palisade, having plans prepared 5 story and basement, 50 x 150 ft., brick and steel, plain foundation, Undercliffe Ave. $150,000.

N. J., Elizabeth—CLUB—Y. M. and Y. W. H. A., 1034 Jersey St., plans 2 story and basement, brick and steel, plain foundation, 1034 East Jersey St. $150,000. Engineer and architect not selected.

N. J., Hillside (br. Elizabeth)—APARTMENT—Owner, c/o M. J. Nadel, archt., 32 Hill St., Newark, having plans prepared 3 story and basement, 80 x 150 ft., brick and steel, plain foundation, 1522 Maple Ave. $150,000.

N. J., Irvington (br. Newark)—APARTMENT—Supelman & Roagen, Inc., c/o M. J. Nadel, archt., 32 Hill St., Newark, having plans prepared 4 story and basement, 60 x 150 ft., brick and steel, plain foundation, 128-34 40th St., here. $150,000.

N. J., Irvington (br. Newark)—APARTMENT—H. Zukoneck, c/o V. Stromback, archt., 1243 Springfield Ave., having plans prepared 4 story and basement, brick and steel, plain foundation, 982 Grove St. $150,000.

N. J., Montclair—OFFICE—Owner, c/o Holmes & Von Schmid, archts., 1 The Crescent, having sketches made 5 story and basement, brick and steel, plain foundation. $150,000.

N. J., Newark — APARTMENT — Schwartz & Cohen, c/o R. Bottelli, archt., 45 Branford Pl., Newark, having plans prepared 5 story and basement, 75 x 140 ft., brick and steel, plain foundation, 244 Roseville Ave. $150,000.

N. J., Newark — APARMENT — Owner, c/o H. Rosensohn, archt., 188 Market St., having plans prepared 4 story and basement, 80 x 130 ft., brick and steel, plain foundation, 538 Summer Ave. $250,000.

N. J., Newark — CLUB — St. Joseph's Council Italian Catholic Union, 118 7th Ave., had sketches made by J. Centanni, archt., 142 Market St., 3 story and basement, brick and steel, plain foundation, $150,000 funds being raised for same. Noted Sept. 15.

N. J., North Bergen (Ind. br. Weehawken)—APARTMENT—Owner, c/o P. Simeone & Co., Inc., 22 Journal Sq., Jersey City, having sketches made 5 story and basement, brick and steel, plain foundation. $175,000.

N. J., Plainfield—APARTMENT—Owner, c/o N. Harris, archt., 20 Branford Pl., Newark, having plans prepared 4 story and basement, 200 x 350 ft., brick and steel, plain foundation, West 7th St., here. $500,000.

N. J., Trenton—HOSPITAL—St. Francis Hospital, Chambers and Hamilton Sts., E. C. Rose, chn., 148 West State St., having plans prepared by W. A. Klemann, 1st Natl. Bank, 4 story, 45 x 206 ft. hospital. $400,000

Pa., Bryn Mawr—BANK—Byrn Mawr Trust Co. having plans prepared by T. James, 342 Madison Ave., New York City, 3 story and basement, 30 x 64 ft., and 84 x 105 ft., rein.-con., brick, steel and stone addition. Metal sash and frame, elevators, vacuum heating, etc.

Pa., Kittanning — HOSPITAL—Kittanning General Hospital having plans prepared by Tillman Scheeren, archts., Ford City, and P. C. Dowen, associated archt., Century Bldg., Pittsburgh, 4 story and basement, brick and steel, McKean St. $250,000.

Pa., Phila.—APARTMENT—A. W. Hall, archts., 15th and Locust Sts., soon lets contract 4 story and basement, 52 x 137 ft., rein.-con., brick and steel, plain foundation, 58th and Overbrook Sts., for Owner, c/o R. J. Seltzer, Inc., agt., 15th and Locust Sts.

Ga., Brunswick—HOTEL—Sea Island Investment, Inc., P. J. Varner, vice pres., c/o W. L. Stoddard, archt., 50 East 41st St., New York City, soon lets contract 4 story hotel, Glen Isle, here. $450,000.

Fla., St. Petersburg — STORE — S. H. Kress Co., 114 5th Ave., New York City, soon lets contract 4 story and basement, 80 x 100 ft., rein.-con., brick, terra cotta and steel, plain foundation, Central Ave. and 5th St., here. $225,000. E. J. T. Hoffman, 114 5th Ave., New York City, archt.

O., Rocky River (br. Cleveland)—THEATRE—Hotel Westlake, c/o Strauss Bros., Otis Bldg., Chicago, Ill., plans, 1 story, brick, steel and concrete theatre addition to hotel, Detroit Rd. $200,000.

Ind., Hammond—STORE—Kaufman & Wolfe, soon lets contract for Lion Dept. Store, 4 story and basement, 110 x 185 x 293 ft., rein.-con., brick and steel, Hohman St. $1,250,000. A. S. Alschuler, 28 East Jackson Blvd., Chicago, Ill., archt.

Ind., Indianapolis — OFFICE — Klein & Kuhn, mgrs. Architects & Engineers Building, Pennsylvania and Vermont Sts., having plans prepared by Rubush & Hunter, 428 Amer. Central Life Bldg., 11 story and basement, 50 x 195 ft., rein.-con. and brick office building. $250,000.

Ind., Lincoln City—MEMORIAL—Lincoln Union Executive Com., having plans prepared by T. E. Hibben, 5433 University Ave., Indianapolis, memorial building, Lincoln Shrine, Spencer Co. $1,265,000.

Mich., Ann Arbor—OFFICE—First Natl. Bank, 100 South Main St., had plans prepared by Fry & Kasurin, Nickels Arcade Bldg., Detroit, 10 story and basement, 45 x 125 ft., rein.-con., brick and steel, plain foundation, South Main St. $300,000.

Mich., Detroit — APARTMENT — H. Applebaum, 9212 Yellowstone Ave., had plans prepared by Wiedmaier & Gay, 1212 Metropolitan Bldg., 4 story and basement, 90 x 121 ft., brick and steel, plain foundation, Merton Rd. $175,000.

Mich., Detroit—HOTEL—S. Plotkin, 640 Lafayette Bldg., having plans prepared by C. N. Agree, 1140 Book Tower Bldg., 4 story and part basement, 200 room, brick, stone and steel addition, plain foundation, Michigan Ave. $200,000.

Mich., Pontiac — APARTMENT — C. R. Van Buskirk, archt., 26 Crofoot Bldg., soon lets contract 3 story and basement, 70 x 136 ft., rein.-con., brick and steel, plain foundation, Oakland Ave., for G. Maurer, 60 Owego Dr. $150,000.

Ill., Chicago—APARTMENT—R. S. De Golyer & Co., archts., 307 North Michigan Ave., prepared plans and soon takes bids 24 story and basement, 45 x 165 ft., brick, stone and steel, 1430 Lake Shore Dr., for W. C. Bannerman & Co., 77 West Washington St. $2,000,000. Noted July 14.

Ill., Chicago—CLUB and OFFICE—High Noon Club (Masons), 18 South Michigan Ave., C. E. Knapp, pres., plans raising $5,000,000 funds, 44 story and basement club and office building. W. W. Ahlschlager, Inc., 65 East Huron St., archts.

Ill., Chicago—OFFICE and STORE—P. B. Maher, archt., 157 East Erie St., prepared plans and soon takes bids remodeling 4 story and constructing 1 story, 75 x 100 ft. top addition, also constructing new 5 story, 20 x 100 ft. addition, brick and stone, Ontario St. and South Michigan Ave., for Erskine-Danforth Corp., 315 North Michigan Ave. $300,000.

Ill., Oak Park—MASONIC TEMPLE—Oak Park Lodge, 540, having plans prepared by Thielbar & Fugard, 219 East Superior St., Chicago, 3 story and basement, 99 x 150 ft., brick and Bedford stone, Lake St. and Forest Ave. $265,000.

Mo., Kansas City—HOSPITAL—Schloss Memorial Hospital, S. Harzfield, pres., 15th and Main Sts., having sketches made by Schmidt, Garden & Erickson, archts., 104 South Michigan Ave., Chicago, Ill., and Greenbaum, Hardy & Schumacher, associated archts., Scarrett Bldg., hospital, between 49th and 50th Sts. from Troost Ave. to Lockhill Rd. $1,250,000.

Mo., St. Louis — AUDITORIUM — Bd. Pub. Serv., 208 City Hall, takes bids early in 1928 5 story and basement, rein.-con., steel and stone, Market St. between 14th and 15th Sts. $5,000,000. Municipal Plaza Comn., Inc., c/o owner engr. and archt. Noted Mar. 10.

Mo., St. Louis—GARAGE—William King & Associates, Inc., 117 South Bway., soon take bids 6 story and basement, 103 x 200 ft., rein.-con. and brick, 13th and St. Charles Sts. $500,000. W. J. Knight & Co., Wainwright Bldg., engrs.

Mo., St. Louis—STORE, WAREHOUSE and TERMINAL—Independent Plumbing & Heating Co., I. P. Goldberg, 1119 Chestnut St., having plans prepared 2 story and basement, 170 x 281 ft., rein.-con., brick and steel store and warehouse, incl. 2 loading platforms and switch track, 3324-40 Market St. $150,000. Private plans.

Ark., Helena—THEATRE, LODGE and OFFICE—Knights of Pythias Lodge having preliminary plans prepared 5 story, rein.-con., brick and stone theatre, lodge and office building. $250,000.

Tex., Eastland—COURTHOUSE—Lang & Witchell, archts., 200 Amer. Exch. Bldg., Dallas, soon takes bids 5 story and basement courthouse, here, for Eastland Co.,

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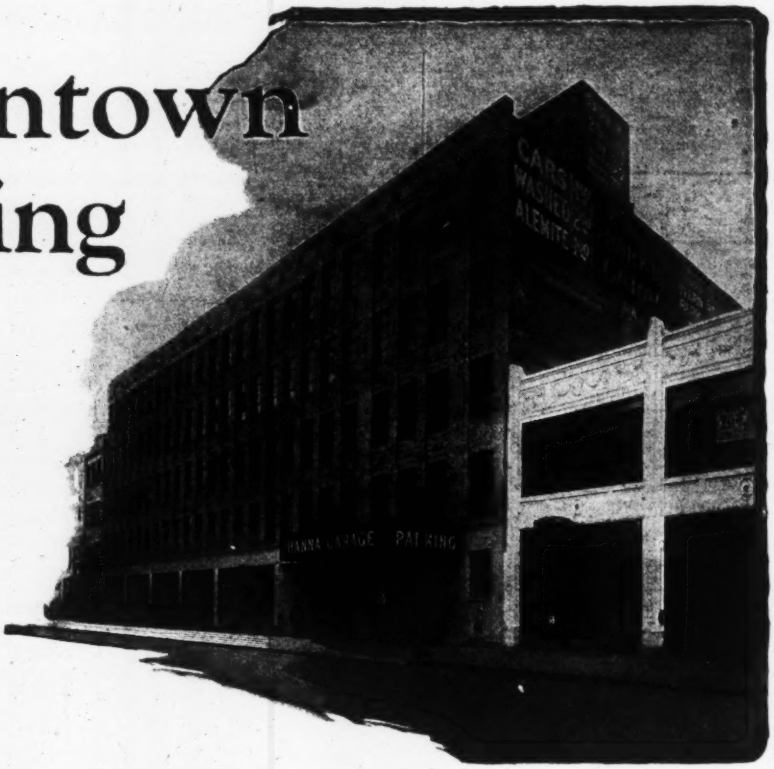

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Buildings—Commercial (Continued)

G. S. Prichard, judge, $300,000. Noted Aug. 4.

Tex., San Antonio—HOTEL and GARAGE—J. J. Nix & associates, c/o Travis Bldg., making preliminary plans 18 story and basement, rein.-con. brick, plain foundation. $700,000.

Tex., Waco—MEDICAL ARTS—Medical Arts Development Co. having plans prepared by J. N. McCammon Co., Inc., 404 Const.-Ind. Bldg.,. Dallas, 11 story and basement, 60 x 75 ft., rein.-con., brick, steel and stone, 9th and Austin Sts. $400,000.

Okla., Ardmore—ORPHANAGE—B. P. O. E. Lodge having preliminary plans prepared rein.-con. and brick, plain foundation. $200,000. Engineer and architect not selected.

Okla., Henryetta—HOTEL—F. Meadors having preliminary plans prepared 4 story and basement, rein.-con. and brick, plain foundation, 2nd St. $150,000. Engineer and architect not selected.

Okla., Tulsa — OFFICE — Oklahoma Natural Gas Corp., 117 West 4th St., having plans prepared by A. M. Atkinson, Midcontinent Bldg., 10 story, 47 x 140 ft., rein.-con., brick and terra cotta, Main St. $350,000.

Okla., Wewoka—HOTEL—E. G. Aldridge had plans prepared by A. C Davis & Son, 430 Bway., Shawnee, and soon takes bids 4 story and basement, 75 x 140 ft., rein.-con. and brick addition, plain foundation, Apple St. $175,000.

Nev., Reno—HOSPITAL—St. Marys Hospital Corp., c/o A. Caldwell, archt., 918 Harrison St., San Francisco, Calif., having plans prepared 3 and 4 story, rein.-con. hospital. $250,000.

Wash., Seattle—APARTMENT—Colonial Investment Co., Amer. Bank Bldg., having plans prepared by H. Hudson, Amer. Bank Bldg., and takes bids about Oct. 19, 5 story and basement, 57 x 120 ft., concrete, brick and steel apartment and 40 car garage, 1562 Olive Way. $300,000.

Wash., Seattle — AUDITORIUM — Bd. Pub. Wks. soon takes bids civic auditorium, 7,500 seating capacity, and arena 3,000 seating capacity. $1,000,000. Schack, Young & Myers, Central Bldg., archts. Noted Mar. 17.

Wash., Seattle—LODGE—B. P. O. E. 92, c/o S. C. Williamson, chn. building com., soon lets contract 21 story lodge, incl. 422 room apartment hotel, gymnasium, etc., 4th Ave. and Spring St. $1,500,000. Noted May 12.

Calif., Los Angeles—APARTMENT—A. C. LeBrun, archt., Guaranty Bldg., making plans 5 story and basement, 80 x 180 ft., rein.-con., Crescent Heights. To exceed $150,000. Owners name withheld.

Calif., Los Angeles—APARTMENT—D. M. Morris, 3390 San Marino St., had plans prepared by F. J. J. Kuchler, 6128 Brynhurt Ave., 7 story, 50 x 120 ft., rein.-con., stucco and cast stone, 2nd St. and Mariposa Ave. $200,000.

Calif., Los Angeles — APARTMENT — Dwyer & Van Doran, archts., 3142 Wilshire Blvd., prepared plans 5 story and basement, brick, Gramercy Pl. $150,000 or more. Owner's name withheld.

Calif., Los Angeles—WAREHOUSE and FACTORY—Western Wool Exchange, Inc., c/o M. H. Merrill & Co., engrs., 222 Laughlin Bldg., having preliminary plans prepared 2 story and basement, 125 x 245 ft. warehouse. 80 x 175 ft. factory, and 40 x 50 ft. boiler house, probably concrete, Soto St. $200,000 or more.

Calif., Redondo Beach—CLUB and HOTEL—Redondo Beach Lodge of Elks having sketches made by Dwyer & Van Doran, 3142 Wilshire Blvd., 17 story, rein.-con. and tile club and hotel. $1,000,000.

Calif., Sacramento — WAREHOUSE — Zellerbach Paper Co., 534 Battery St., San Francisco, having plans prepared 3 story, rein.-con., Front St. $150,000. Ellison & Russell, Pacific Bldg., San Francisco, engrs.

Calif., San Francisco—APARTMENT—H. C. Baumann, archt., 251 Kearny St., soon takes bids 6 story and basement, steel and rein.-con., Filbert St., for R. Guinasso, 226 Francisco St. $150,000.

Calif., San Francisco—APARTMENT—P. Righetti, archt., 12 Geary St., preparing plans 7 story and basement, Pacific and Powell Sts. Owner's name withheld.

Calif., San Francisco—APARTMENT—E. V. Lacey & J. Steur, Hearst Bldg., plans 17 story and basement, rein.-con., O'Farrell and Leavenworth Sts. $500,000 or more.

Calif., San Francisco—APARTMENT—J. J. Kolburn, 1441 Taylor St., having sketches made by H. C. Baumann, 251 Kearny St., 8 story and basement, concrete apartment. To exceed $250,000.

Calif., San Francisco — HOTEL — St. Francis Hotel, Powell and Geary Sts., had plans prepared by W. Faville, 1st Natl. Bank Bldg.., remodeling hotel, Powell St. $800,000.

Calif., San Francisco — OFFICE — San Francisco Stock & Bond Exchange, 341 Montgomery St., plans 4 story and basement, Montgomery St. $500,000. Engineer and architect not selected.

B. C., Vancouver—OFFICE—Vancouver Medical & Dental Building Ltd., 608 Rogers Bldg., had sketches made by W. Bain, Arcade Bldg., Seattle, Wash., 10 or 12 story, 120 x 125 ft., rein.-con., brick and stone, plain foundation, Richards and Georgia Sts. $1,000,000.

Bids Desired

Mass., Framingham — OFFICE — West Boston Gas Co., 49 Howard St., taking new bids 2 story and basement, 80 x 120 ft., brick and stone, plain foundation, Howard St. $150,000. Former bids rejected. C. M. Baker, 25 Arch St., Boston, archt. Noted Aug. 25.

Conn., Bristol—ARMORY—Oct. 14, by State of Connecticut, State House, Hartford, rein.-con., brick and steel, Center and Valley Sts., here. $175,000. Payne & Keefe, 231 State St., New London, archts. Noted July 21.

N. Y., Corning — HOTEL — Oct. 7, by Thomas, Martin & Kirkpatrick, archts., 210 South 16th St., Phila., Pa., 5 story and basement, 70 x 106 ft., rein.-con., brick and steel, plain foundation, here, for Corning Hotel Corp. Former bids rejected. Noted Aug. 11.

N. Y., New York—APARTMENT—Oct. 10, by J. M. Paterson, 247 Park Ave., 9 story and basement, 50 x 100 ft. apartment, 3 East 84th St. $350,000. J. M. Howells & R. M. How, 156 East 46th St., associated archts. Weiskoff & Peckworth, 45 West 45th St., engrs.

N. Y., New York—APARTMENT—Eight Hundred Twenty-Five West End Ave. Corp., c/o I. Polestein, 285 Madison Ave., taking bids and opens same about Oct. 15, excavating, steel, masonry and ornamental iron work for 15 story, 100 x 153 ft., brick and steel, 100th St. and West End Ave. $800,000. E. Roth, 1440 Bway., archt.

N. Y., New York — HOTEL — See "Contracts Awarded."

N. Y., New York — THEATRE — See "Contracts Awarded."

N. Y., New York—THEATRE, OFFICE and STORE—Oct. 10, by T. W. Lamb, archt., 644 8th Ave., altering rein.-con., brick and steel, 964 3rd Ave., and 146 West 58th Sts., for F. F. Proctor, 1564 Bway. $500,000. Noted May 5.

N. Y., Peekskill — THEATRE — A. W. Johnson, archt., 285 Madison Ave., New York City, taking bids 2 story theatre, Park St., here, for Pekman Theatre Corp., c/o Gottesman Enterprises, Room 911, 1540 Bway., New York City. $500,000.

N. Y., Tuckahoe — See "Contracts Awarded."

N. J., Caldwell—APARTMENT—W. J. Fitzsimmons, archt., 626 Central Ave., East Orange, taking bids (selected list of bidders) general contract 4 story and basement, 80 x 100 ft. brick and steel, plain foundation, Roseland and Bloomfield Aves., here, for Civic Center Investment Co., c/o I. Sisselman, 24 Williams St., Newark. $150,000.

N. J., East Orange—APARTMENT—See "Contracts Awarded."

N. J., Jersey City — THEATRE — See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awarded."

N. J., Teaneck (mail West Englewood)—APARTMENT—See "Contracts Awarded."

Pa., Phila.—APARTMENT—R. N. Dippy, archt., 1601 Walnut St., taking sub bids 15 story and basement, 110 x 120 ft., rein.-con. brick and steel, plain foundation, 69th and Chestnut Sts., for Sixty-Ninth Realty Co., c/o architect.

Pa., Pittsburgh — HOSPITAL — St. Francis Hospital, 45th St., having preliminary plans prepared by S. F. Heckert, Bessemer Bldg., 6 story and basement, irregular shaped, brick and steel addition, 45th and Geneva Sts. $1,500,000 funds being raised for same.

La., New Orleans—HOTEL—Oct. 20, by Weiss, Dreyfus & Serferton, Inc., archts., Maison Blanche Bldg., 18 story and basement, rein.-con., brick and steel, wood pile foundation, Canal St., for Jung Hotel, Canal and LaSalle Sts. To exceed $500,000.

Tenn., Knoxville — CLUBHOUSE — Cherokee Country Club, W. C. Ross, chn. building com., taking bids 2 story, brick and stone clubhouse. $150,000. Bauman & Bauman, 813½ Market St., archts. Noted Nov. 25.

O., Cleveland—HOSPITAL—A. E. Skeel, archt., 5005 Euclid Ave., taking bids and open same about Oct. 12, 2 story and basement, 50 x 150 ft., and 50 x 75 ft., brick, steel and concrete, West 25th St., for Evangelical Deaconess Hospital, c/o A. A. Kitterer, 4229 West 25th St. $300,000.

Ill., Chicago — APARTMENT — S. C. Finck, archt., 35 South Dearborn St., taking bids 13 and 15 story and basement, 100 x 260 ft., rein.-con., brick and stone, Sheridan Rd., and Glenlake Ave., for M. S. Willens, 160 North La Salle St. $2,000,000. Noted June 30.

Ill., Chicago—APARTMENT—Oldefest & Williams, archts., 605 North Michigan Ave., taking bids 4 story, 50 x 153 ft., rein.-con., brick and terra cotta, 6037-39 Drexel Ave., for Keith Line, c/o architects. $150,000.

Ill., Chicago — HOTEL — Lowenberg & Lowenberg, archts., 111 West Washington St., taking bids 7 story and basement, 45 x 150 ft., rein.-con., brick and stone, 321 North Central Plaza, for Central Plaza Hotel Corp., 321 North Central Plaza. $500,000.

Ill., Downers Grove — THEATRE and STORE—Van Gunten & Van Gunten, archts,. 26 East Huron St., Chicago, prepared plans and taking bids 6 story and basement, rein.-con. and brick, Main St., here, for C. H. Bunze. $500,000.

Ill., Evanston — APARTMENT and STORE — See "Contracts Awarded."

Ill., Winnetka—APARTMENT, OFFICE and STORE—E. T. Leonard Co., taking bids 3 story and basement, 100 x 134 ft., brick and stone, Linden Ave. and Tower Rd. $150,000. Oldefest & Williams, 605 North Michigan Ave., Chicago, engrs.

Okla., Fairview—COURT HOUSE—Oct. 12, by B. E. Dange, clk. Major Co, 3 story and basement, 88 x 140 ft., rein.-con. and brick, plain foundation, Main St. $150,000. Tonini & Bramblett, 416½ West Main St., Oklahoma City, archts. Noted Sept. 15.

Okla., Tulsa—OFFICE—See "Contracts Awarded."

Wash., Camp Lewis—HOSPITAL—Oct. 24, by Constructing Quartermaster, hospital at Camp Lewis.

Calif., Long Beach—HOTEL—See "Contracts Awarded."

Calif., Los Angeles—WAREHOUSE and OFFICE—Bekins Fireproof Storage Co., 1335 South Figueroa St., taking bids 8 story, rein.-con., Pico Blvd. $250,000. F. E. Barton, Crocker Bldg., San Francisco, archt. Noted Aug. 25.

Calif., Pasadena—BANK and OFFICE—Bennett & Haskell, archts., Security Bldg., taking bids 9 story and basement, 200 x 230 ft., class "A," Colorado St. and Madison Ave., for 1st Trust & Savings Bank, and 1st Natl. Bank. Noted Dec. 30.

Calif., Redlands — THEATRE, STORE and OFFICE—L. A. Smith, archt., Film Exch. Bldg., Los Angeles, taking new bids rein.-con., here, for West Coast Theatres, Inc., Film Exch. Bldg., Los Angeles. $200,000. Former bids rejected. Noted June 23.

Calif., San Francisco—APARTMENT—Oct. 17, by C. A. Meusdorffer, archt., Humboldt Bank Bldg., 7 story and basement, steel and rein.-con., Pacific and Webster Sts., for A. W. Wilson, c/o architect. $150,000. Noted Sept. 29.

Calif., San Francisco—STAGE DEPOT—O'Brien Bros., archts., 315 Montgomery St., taking bids 7 story, basement and sub-basement, Mission and 5th Sts., for Pickwick Stage System, 75 5th St. $500,000. Noted June 30.

Calif., Stockton—HOSPITAL—Oct. 18, by State Dept. Pub. Wks., Div. of Architecture, Sacramento, Farm Cottage Buildings 5, 6 and 7, 2 story, rein.-con., here. $200,000. B. G. McDougall, Forum Bldg., Sacramento, state archt. Noted July 14.

B. C., Vancouver—HOSPITAL—Oct. 31, by City Council, City Hall, 6 story and basement, 45 x 274 ft., rein.-con. and terra cotta, plain foundation, 12th Ave. and Willow St., for Vancouver General Hospital, 10th Ave. and Heather St. $400,000. P. P. Brown, 407 London Bldg., structural engr. A. J. Bird, city archt. Noted Dec. 30.

Contracts Awarded

Mass., Springfield — OFFICE — United Electric Light Co., 73 State St., 3 story, 78 x 90 ft.. brick, steel and limestone addition, to E. J. Pinney, Inc., 220 Dwight St. Engrs. est. $150,000.

Conn., Hartford — TEMPLE — Labor Temple Assn., Inc., C. Hellyar, chn., 1 and 3 story, 44 x 100 ft., and 62 x 85 ft., brick and steel, Park St., to Richard Johnson Co., 50 Trumbull St. Archts. est. $150,000. Noted July 28.

Conn., Middletown—WARD—Connecticut State Hospital, R. L. Leak, supt., three 3 story, brick and steel additions, to Loucks & Clarks, Ernest St., Wallingford. Archts. est. $150,000.

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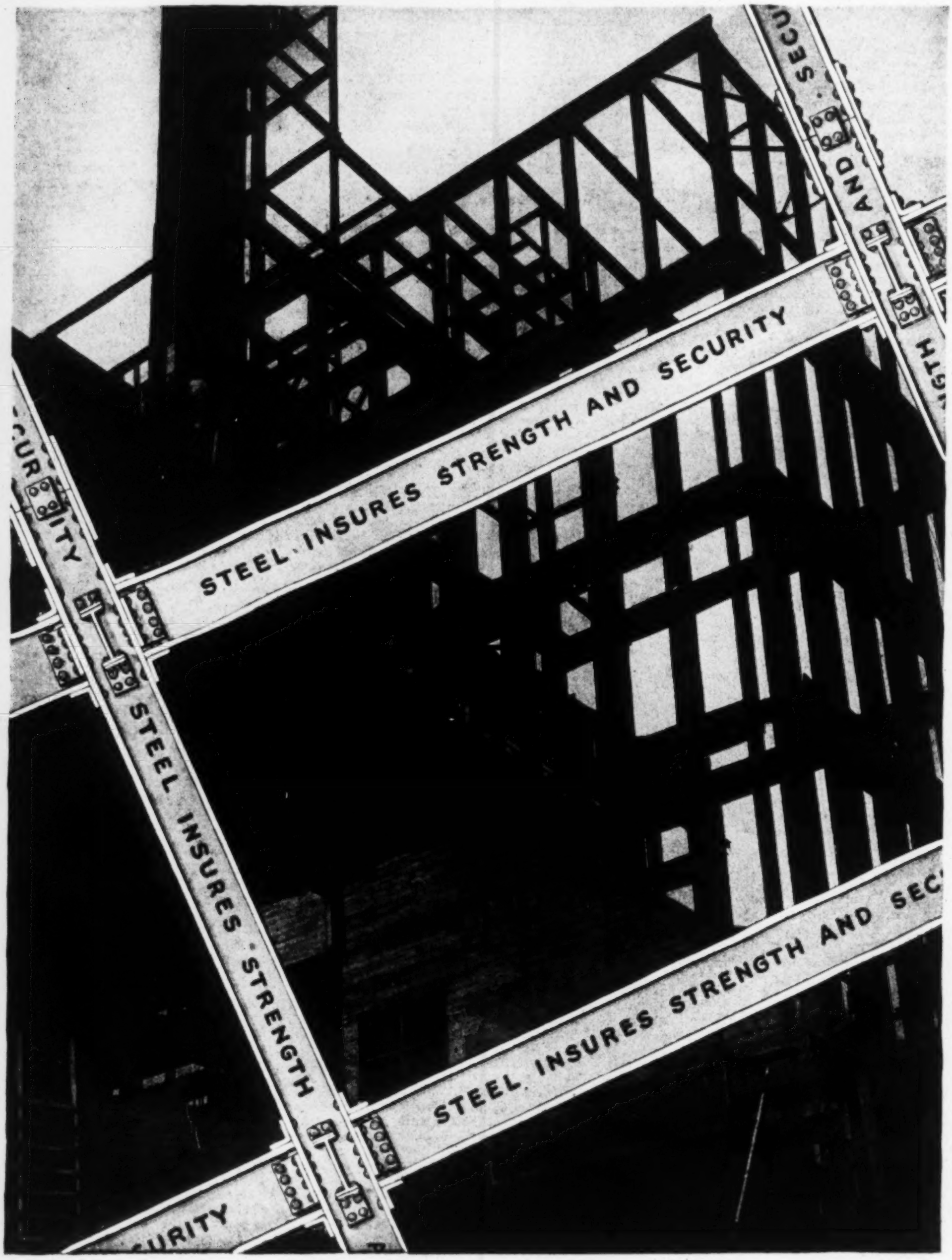
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Buildings—Commercial (Continued)

N. Y., Albany—BANK—First Trust Co., 3 story addition, to J. P. Sewell, 372 Hudson Ave., $500,000.

N. Y., Brooklyn — APARTMENTS — Twenty-Four Monroe Pl., Inc., 13 story, 75 x 101 ft., rein.-con., brick and steel, plain foundation, 22 Monroe Pl., to David Solomon, 160 Montague St. Archts. est. $800,000.

N. Y., Brooklyn—HOSPITAL—Lord & Hewlett, archts., 2 West 45th St., New York City, 6 story and basement hospital, Albany and Atlantic Aves., to Wm. Kennedy Constr. Co., 215 Montague St., for St. Johns Hospital, c/o Church Charity Foundation, 1521 Atlantic Ave. Archts. est. $1,600,000. Noted Sept. 15.

N. Y., Far Rockaway — POLICE STATION—Police Dept., 240 Center St., New York City, general contract police station and garage, Mott Ave. and Mott Pl., here, to Wiglan Building Co., 145 West 45th St., New York City, $177,300. Noted Apr. 15.

N. Y., Jamaica—BANK and OFFICE—Natl. Title Guaranty Co., 9225 Union Hall St., 10 story and basement, rein.-con., brick and steel, concrete pile foundation, Jamaica Ave. near Washington St., to W. Kennedy Constr. Co., 215 Montague St., Brooklyn. Archts. est. $400,000. Noted June 23.

N. Y., New York—APARTMENTS—Arezzo Corp., 20 Vesey St., 14 story and basement, rein.-con., brick and steel, 160 East 72nd St., to T. E. Rhoades Co., 342 Madison Ave. Archts. est. $1,000,000.

N. Y., New York — APARTMENT — J. Tishman & Sons, 285 Madison Ave. (owner and builder), will build 15 story, 90 x 160 ft., rein.-con., brick and steel, plain foundation, Park Ave. and 81st St. $2,500,000. Schwartz & Gross, 285 Madison Ave., archts.

N. Y., New York — BANK — Natl. City Bank, 55 Wall St., 2 story, 30 x 100 ft. bank, 123 East 86th St., to E. Corning Co., 145 East 45th St. Archts. est. $150,000. Noted Aug. 11.

N. Y., New York—GARAGE—Vedava Realty Co., 532 5th Ave., 3 story, 104 x 200 ft. garage, 623 57th St., to T. J. Murphy Co., 2 West 45th St. $200,000. Yellow Taxi Co., 419 East 60th St., lessee.

N. Y., New York—HOTEL—M. Kurzrok, 550 7th Ave., will build Hotel Victoria, 22 story and basement, 75 x 125 ft. rein.-con., brick and steel, plain foundation, 51st St. and 7th Ave. $1,600,000. Work will be done by separate contracts. Schwartz & Gross, 345 5th Ave., archts.

N. Y., New York — THEATRE — D. M. Oltarsh, (owner and archt.), 36 West 44th St., will build theatre, Dyckman St. $750,000. Work will be done by separate contracts.

N. Y., Richmond Hill (Ind. br. Jamaica) — COMMUNITY CENTER — Knights of Columbus, 799 7th Ave., New York City, 2 story, brick, steel and stone, Justice plain foundation, 109th St. and Atlantic Ave., here, to J. Dolnecke, 367 Fulton St., Brooklyn. Archts. est. $350,000. Noted Feb. 25, 1926.

N. Y., Tuckahoe — APARTMENTS — J. Conte & A. Zuccaro, 21 Hillside Ave., will build apartment. $175,000. Work will be done by separate contracts. S. L. Waller, 14 West 45th St., New York City, archt.

N. Y., Williamsville — CLUBHOUSE — Park Golf Club, North Lincoln Blvd., 2½ story, rein.-con., terra cotta and brick, concrete foundation, Main St., here, to R. E. Williams, 775 Main St., Buffalo. Archts. est. $150,000. Noted Apr. 28.

N. Y., Yonkers—WAREHOUSE—Feurers Warehouse & Trucking Co., 63 Dock St., 4 story (ultimately 7 story), 92 x 100 ft. rein.-con., Ludlow and Bridge Sts., to Johnson-Miller Co., 1 Bright Pl. Archts. est. to exceed $150,000. Noted Aug. 25.

N. J., East Orange—APARTMENTS—A. C. Baldwin, 944 Broad St., Newark, will build 4 story and basement, 65 x 85 ft., brick and steel, plain foundation, 222-24 Glenwood Ave. $200,000. Work will be done by separate contracts. R. C. Klemm, 944 Broad St., Newark, archt.

N. J., East Orange—APARTMENT—H. Racklin, 13 Rose Terrace, Newark, will build 4 story and basement, 70 x 170 ft., brick and steel, plain foundation, Washington and Hilyer Sts. $150,000. Work will be done by separate contracts. F. J. Cook, 9 Clinton St., Newark, archt. Noted Sept. 15.

N. J., Jersey City—THEATRE—Loews Theatrical Entrperises, 1540 Bway., New York City, will build theatre, Journal Sq., here. $300,000. Work will be done by separate contracts. Rapp & Rapp, Paramount Bldg., New York City, archts. Noted Aug. 4.

N. J., Newark—APARTMENT—Kanter & Cohen, 146 Goodwin Ave., will build 5 story and basement, 70 x 106 ft., brick and steel, plain foundation, Schley St. and Phils Pl. $160,000. Work will be done by separate contracts. S. Cohen, 130 Branford Pl., archt.

N. J., Newark—APARTMENT—Wolcott Holding Co., Stratford Pl., will build 5 story and basement, 98 x 100 ft., brick and steel, plain foundation, Stratford Pl. and Avon St. $175,000. Work will be done by separate contracts. H. F. Clark, 38 Clinton St., archt.

N. J., North Caldwell (mail Caldwell)—CELL HOUSE and PENITENTIARY—Essex Co., Court House, Newark, general contract altering penitentiary, here, to Bowe & Millimet, 774 Bline Ave., Union City, $378,850; plumbing, to R. B. Smith, 62 Ann St., Newark $61,440; and heating, to Jaehnig & Peoples, Inc., Central Ave., Kearny, $86,250; constructing 210 cells, to D. Fries & Son, 2nd and Madison Sts., Covington, Ky., $193,728. Grand total $720,268. Noted Sept. 22.

N. J., Scotch Plains — HOSPITAL — Bd. Freeholders Union Co., Broad St. and Elizabeth Ave., Elizabeth, general contract 1 and 2 story, 143 x 245 ft., brick and steel, plain foundation, County Hospital Grounds, here, to C. R. Hedden Co., 357 South Orange Ave., Newark, $424,342; plumbing and heating, to Jaehnig & Peoples, 221 13th Ave., Newark, $111,427 and $73,988 respectively. Grand total $609,757. Noted Aug. 18.

N. J., Teaneck (mail West Englewood)—APARTMENT—Billington Towers Corp., Ft. Lee Trust Bldg., Main St., Fort Lee, will build 4 story and basement, brick and steel, plain foundation, West Englewood Ave. $150,000. Work will be done by separate contracts. G. W. Dexter, Fort Lee Trust Bldg., Main St., Fort Lee, archt. Noted Sept. 15.

Pa., Haverford — APARTMENT — C. D. Gardner, Real Estate Trust Bldg., Phila., will build irregular shaped, brick and steel apartment, 60,000 sq.ft. floor space, plain foundation, here. $400,000. Work will be done by separate contracts. Lippencott & Schaeff, 11 South 16th St., Phila., archts.

Pa., Kane — HOSPITAL — Community Hospital, 3 story, 56 x 166 ft., brick hospital, to Hyde Murphy Co., Ridgeway. Archts. est. $250,000.

Md., Bridewell (mail Jessups) — CELL HOUSE—House of Correction (Bd. Welfare), 57 x 268 ft., brick and steel wing, 60 ft. high, plain foundation, to Davis Constr. Co., 9 West Chase St., Baltimore, $260,000; cell work, to Van Dorn Iron Wks., 2685 East 79th St., Cleveland, O., $240,000. Noted Sept. 15.

Miss., Hattiesburg — HOTEL and THEATRE — Syndicate forming, c/o Chamber of Commerce, T. S. Jackson, secy., 7 story and basement, rein.-con., brick, stone and terra cotta, Forest and Pine Sts., to Selden-Breck Constr. Co., Fullerton Bldg., St. Louis, Mo. Archts. est. $1,000,000. Noted Jan. 24.

O., Columbus—CLUB—J. A. Beer, 236 15th Ave., general contract 8 story and basement, 90 x 185 ft., brick, stone and concrete, South 4th St., to Middle States Constr. Co., 1237 Essex St., for Y. W. C. A., 20 South 3rd St. approximately $500,000.

O., Dayton—AUTO SALES and SERVICE—Stomps Sales Co., 504 South Main St., 3 story and basement, 100 x 200 ft., brick and rein.-con., plain foundation, South Main St., to A. L. Ostendorf, 1060 Grand Ave., $160,000.

O., Lakewood (br. Cleveland)—APARTMENT—City Savings & Loan Co., 630 Euclid Ave., Cleveland, 3 story and basement, 89 x 120 ft., brick, 14818 Clifton Blvd. to M. Duchon, 1077 Thornhill, Cleveland. Archts. est. $150,000.

O., Lakewood (br. Cleveland)—APARTMENT—J. Rosenfield, 3 story and basement, 41 x 119 ft., brick, steel and concrete, 11825 Lake Ave., to C. Tilles, 2737 West 14th St., Cleveland. Archts. est. $150,000.

Ind., Brazil — HOSPITAL — Comrs. Clay Co., C. J. McCullough, general contract 3 story, brick and steel, to J. M. Cutshall & Sons, Brazil; heating and plumbing, to Wissel & Chrisman, 1420 Wabash Ave., Terra Haute. Archts. est. $150,000. Noted Aug. 18.

Ind., Corydon—COURT HOUSE—Harrison Co., general contract 3 story and basement, 65 x 114 ft., brick, steel and stone, to J. F. Beggs, Scottsburg. Archts. est. $150,000. Noted Sept. 8.

Ill., Chicago—APARTMENT—R. S. De Golyer & Co., archts., 307 North Michigan Ave., general contract 20 story and basement, 100 x 125 ft., brick, stone and terra cotta, incl. ball room, swimming pool, etc., to C. B. Johnson & Son, Inc., 306 South Wabash Ave., for Powhattan Building Corp., c/o contractors. Archts. est. $2,500,000.

Ill., Chicago — APARTMENT — H. S. Lewis, 77 West Washington St., general contract 5 story and basement, 50 x 150 ft., rein.-con. and brick, 6230-32 Dorchester Ave., to Rosenthal, Mayer & Lewis, 77 West Washington St. Archts. est. $400,000.

Ill., Evanston — APARTMENT and STORE — Cooper, Winston & Manierre, 112 West Adams St., will build 4 story and basement, 70 x 132 ft., rein.-con., brick and stone, Chicago Ave. and Grove St., by day labor. Archts. est. $300,000. Noted July 14.

Ill, Oak Park—APARTMENT—Meyer & Cook, archts., 820 Tower Court, Chicago, masonry contract two 3 story and basement, one 100 x 116 ft., and other 65 x 100 ft., brick and stone, Holley Court and Marion St., here, to Freevol & Smedberg, 5950 West Erie St., Chicago; carpentry contract, to C. J. Nelson, 529 North Le Claire St., Chicago; heating, to W. Lees, Inc., 548 West Washington Blvd., Chicago; plumbing, to W. Gawne, 5519 West Madison St., Chicago, for R. E. Nicholas, Oak Park. Noted Aug. 11.

Minn., Minneapolis — OFFICE — Yeates Building Co., E. W. Yeates, pres., 310 Yeates Bldg., general contract 18 story and basement, 85 x 157 ft., rein.-con., brick and steel, 76 South 9th St., to Madsen Constr. Co., 618 Natl. Bldg. Archts. est. $1,750,000.

Tex., Caldwell — COURTHOUSE—Burleson Co., c/o G. W. Grant, judge, 3 story and basement, 73 x 118 ft., rein.-con., brick, steel and stone, to T. B. Bubbard Constr. Co., 1507 Sheppard St., Houston, $125,165.

Tex., Gainesville—HOTEL—W. C. Hedrick, archt., 1005 1st Natl. Bank Bldg., Fort Worth, 6 story and basement, 45 x 125 ft., rein.-con., brick, stone and steel hotel, here, to Bellows-Maclay Constr. Co., 603 Const. Ind. Bldg., Dallas, for Turner Bros. $175,000. Noted Sept. 15.

Okla., Norman—WARD—Bd. of Affairs, Capitol, Oklahoma City, 2 story and basement, rein.-con. and brick, plain foundation, for State Insane Hospital, on campus here, to Tankersley Constr. Co., Trade Natl. Bldg., Oklahoma City. $166,640. Noted Sept. 1.

Okla., Shawnee—HOTEL—H. Phillips, 10 story and basement hotel, to G. P. Carr Constr. Co., Shawnee. Archts. est. $300,000. Noted Sept 22.

Okla., Talihina—WARD—State Bd. of Affairs, Oklahoma City, 3 story and basement, rein.-con., brick plain foundation, at State Tuberculosis Hospital, here, to Bailey & Burns, Norman, $94,750. Noted Sept. 1.

Okla., Tulsa—OFFICE—D. Hunt, Main St., will build 11 story, 100 x 100 ft., and 40 x 50 ft. ell, rein.-con., brick, steel and terra cotta addition, by day labor. Archts. est. $550,000. Noted July 21.

Calif., Berkeley—MEMORIAL—G. Gross, clk. Alameda Co., 2 story and basement, concrete, to Leiter & Son, Call Bldg., San Francisco, $139,767. Noted Aug. 25.

Calif., Long Beach—HOTEL—C. T. McGrew & Son, 1345 West Ocean Ave., will build 6 story and basement, rein.-con., Ocean Ave., by day labor. $200,000. Private plans.

Calif., Los Angeles—APARTMENT and GARAGE—E. C. Carter, 941 South Kenmore Ave., 3 story and basement, 80 x 150 ft., timber and stucco apartment, and 45 x 115 ft. concrete garage, Beachwood Dr., to Tower-Franklin, 14 Singer Bldg., Pasadena, $156,000.

Calif., Los Angeles—CLUB—Los Angeles Athletic Club, 431 West 7th St., 2 and 3 story 290 x 320 ft., rein.-con. and stucco Riviera Country Club Site, Pacific Palisades, near here, to J. B. Richards, Rivera Country Club, Pacific Palisades near here. $250,000.

Calif., Los Angeles—MARKET—Central Wholesale Market Co., 1226 East 8th St., 2 story office and market, and eight 1 story market buildings, brick, concrete and steel, 1201 East 9th St., to Wurster Constr. Co., 1205 Natl. City Bank Bldg., $160,000. Noted June 30.

Calif., Pasadena — APARTMENT — J. Yoakam, 25 Menton Ave., 4 story, 115 x 145 ft., stucco and stone, 455-71 North Raymond Ave., to Pasadena Building Co., 2343 North Garfield Ave., $150,000.

Calif., San Francisco—THEATRE—Capital Co., Bank of Italy Bldg., theatre, 5,200 seating capacity, Hayes and Market Sts., to Macdonald & Kahn, Financial Center Bldg., approximately $2,000,000.

Calif., Santa Maria—THEATRE—C. J. Weyl, archt., Guaranty Bldg., Hollywood, 2 story, 84 x 170 ft., steel and rein.-con., 1,200 seating capacity, here, to Beller Constr. Co., Bank of Italy Bldg., for West Coast Theatre, Inc., Washington St. and Vermont Ave., Los Angeles. $250,000. Noted Sept. 8.

Buildings—Industrial

Proposed Work

Mass., Malden (br. Boston) — SHOWROOM and WORK SHOP—Palmer Mullen Co., 60 Franklin St., plans showroom, incl. large workshop, Franklin St. $40,000. Noted Sept. 15.

Conn., Meriden — PLANT — Bassick Co., Center and Britainia Sts., soon lets contract 2 story, 60 x 150 ft., and 75 x 100 ft., brick addition. $100,000. Fletcher & Thompson, Inc., 542 Fairfield Ave., Bridgeport, archts. Noted Sept. 29.

N. Y., New York — PRINTING and MANUFACTURING—Phillips Estate, Inc., c/o A. J. Barzaghi, archt., 13 East 37th St., having plans prepared 14 story and basement, brick and steel, plain foundation, 343 West 52nd St. $500,000.

N. J., Pinewald (mail Bayville)—SOAP FACTORY—I. Rokeach & Sons, 345 Hewes St., Brooklyn, will not construct 1 and 2 story, 60 x 150 ft., brick and steel, plain foundation, here. $150,000. Project abandoned. Noted Apr. 29, 1926.

Pa., Cressona—ENGINE HOUSE, etc.—Reading Co., C. Dillenback, ch. engr., Reading Terminal Bldg., Phila., soon lets contract 1 story, 115 x 167 ft. engine house, and 1 story, 37 x 100 ft. locker building, rein.-con. and brick, 100 ft. turntable, two 85 ft. inspection pits, etc., here.

Pa., Erie—MANUFACTURING—J. Zurn having plans prepared by Wilbur Watson & associates, archts. and engrs., 4614 Prospect Ave., Cleveland, O., rein.-con., brick and steel manufacturing plant, foundry, machine shop, boiler house and storage, etc.

Pa., Sharon — PLANT — Sharon Steel Hoop Co. having plans prepared 1 story, approximately 300 x 300 ft., brick and steel addition. $150,000. Private plans.

Va., Richmond — PLANT — Du Pont Rayon Co., Buffalo, N. Y., c/o E. I. du Pont de Nemours & Co., Wilmington, Del., M. Manghum, bus. mgr., purchased 517 acre site and plans plant for manufacturing artificial silk, near here. $8,000,000-$10,000,000. A. J. Saville, Electric Bldg., Richmond, Va., engr.

Miss., Jackson—GARAGE and SERVICE—See "Contracts Awarded."

O., Canton — FACTORY — Klingstedt Bros., 425 Schroyer Ave., having plans prepared by E. Herrmann, Daily News Bldg., and soon takes bids 1 story and basement, 57 x 115 ft., brick, Schroyer Ave. $40,000.

O., Cleveland — FACTORY — Grasselli Chemical Co., Guardian Bldg., had plans prepared 1 story, 80 x 140 ft., steel and corrugated iron factory. $50,000. C. D. Sperry, Guardian Bldg., engr.

O., Galion — FACTORY — Althouse & Jones, archts., Market Bldg., Mansfield, soon let contract 1 story, 85 x 345 ft., brick and steel factory, here, for Galion Iron Wks. & Mfg. Co.

O., Mansfield — FACTORY — Mansfield Tire & Rubber Co., G. W. Stephens, pres., having plans prepared 3 story and basement, 90,000 sq.ft. floor space, brick, steel and concrete factory. $100,000. Private plans.

Kan. Manhattan—POWER and HEATING PLANT—Kansas State Agricultural College, takes bids about Nov. 1, 3 story and basement, 51 x 210 ft., and 83 x 105 ft. wing, rein.-con. and native stone. $315,000. C. D. Cuthbert, State House, Topeka, archt. Noted Sept. 29.

Tex., Del Rio—OIL REFINERY—Mid-Kansas Oil & Gas Co., c/o W. W. Fleming, vice pres., Findlay, O., plans oil refinery, here. $200,000. Private plans.

Tex., Laredo—CANNING PLANT—W. S. Winsor, Hot Springs, Ark., having plans prepared canning plant, here. $45,000. Private plans.

Tex., Pampa—CARBON BLACK PLANT—General Atlas Chemical Co., plans carbon black plant, near here. $250,000. Private plans.

Tex., Pyote—ICE and STORAGE PLANT—H. M. Price, c/o Arctic Ice Co., soon takes bids ice and storage plant. $60,000.

Tex., San Antonio—WAREHOUSE—Scobey Fireproof Storage Co., c/o F. E. Scobey, 311 North Medina St., plans 6 story and basement, rein.-con., brick and hollow tile, 100,000 sq.ft. floor space, North Medina St. and Missouri Pacific Ry. tracks. $300,000. Engineer and architect selected soon.

Tex., San Benito—CANNING and PACKING PLANT—Texas Citrus Fruit Growers Exch., c/o J. Shary, Brownsville and San Benito, plans combination canning and packing plant, here. $75,000. $200,000. Private plans.

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Tex., Tyler — BRICK PLANT — Tyler Brick Co. having plans prepared plant addition. $40,000. Private plans.

Okla., Pauls Valley—CANNING PLANT—W. F. Akin Canning Co., c/o B. C. Eastin, Pauls Valley, plans vegetable canning plant. $40,000.

Okla., Woodward—LIGHT PLANT—City made preliminary plans 1,000 hp. Diesel engine addition, to light plant. $100,000. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

Wash., Wenatchee—LOCOMOTIVE REPAIR SHOP—Great Northern Ry. Co., J. R. W. Davis, ch. engr., St. Paul, Minn., plans locomotive repair shop, here. $150,000.

Calif., Eureka — BAKING PLANT — Roma Bakery, 603 California St., plans rebuilding probably 2 story, 60 x 80 ft., fireproof, 4th and Commercial Sts., recently destroyed by fire.

Calif., Los Angeles—LAUNDRY—Community Laundry, C. C. Craig, pres., had plans prepared by W. J. Saunders, 227 Laughlin Bldg., 2 and 3 story (ultimately 6 story), 145 x 235 ft., steel and rein.-con., Highland and Willoughby Aves. To exceed $100,000.

Calif., Sacramento — FACTORY — California Compressed Gas Co., 2305 East 52nd St., plans gas factory, initial capacity 1 m. cu.ft. per month (ultimately 2,500,000 cu.ft.), foot of E St. $100,000.

Calif., Westminister — AIRPLANE FACTORY—Zenith Aircraft Corp., Santa Ana, plans 1 story, 60 x 115 ft. airplane factory.

Que., Gatineau—MILL—Canadian International Paper Co., 355 Beaver Hall Sq., Montreal, soon takes bids large mill addition, here. $600,000.

Bids Desired

Mass., Waltham (Ind. br. Boston) — GARAGE, SHOWROOM and REPAIR SHOP—Owner, c/o W. H. Haines, archt., 32 Riverview Ave., taking bids 1 story and basement, 60 x 100 ft., brick and stone, plain foundation, Main St. $50,000.

Mass., Worcester—FACTORY—See "Contracts Awarded."

N. J., Carteret—SAW MILL, etc.—F. L. Smith, engr., 21 East 40th St., New York City, taking bids general contract 2 story, 70 x 100 ft. saw mill, and 1 story, 20 x 100 ft. fuel house, both brick and steel, here, for I. T. Williams & Son, Woodbridge Ave. $60,000.

N. J., Rahway—FACTORY—See "Contracts Awarded."

Mich., Battle Creek—FACTORY—Sanitarium Hospital Equipment Co. taking bids 2 story and basement, 80 x 150 ft., brick and steel addition, plain foundation, Washington Ave. $125,000. M. J. Morehouse, 343 South Dearborn St., Chicago, Ill., archt.

Mich., Detroit — CANDY FACTORY — Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., taking bids 4 story and basement, rein.-con., brick and steel, plain foundation, Duboise St., for Detroit Candy Co., 1528 Gratiot Ave. $150,000.

Ill., Chicago—LUMBER WAREHOUSE—A. Epstein, archt., 2000 West Pershing Rd., taking bids 1 and 2 story, brick and timber lumber warehouse, for Pershing Road Warehouse Co., c/o architect. $100,000.

Tex., Ozona — ICE PLANT — See "Contracts Awarded."

Calif., Los Angeles—LAUNDRY—W. J. Saunders, archt., Laughlin Bldg., taking bids 2 and 3 story (ultimately 6 story), 145 x 235 ft., steel and rein.-con., Highland Ave., for Community Laundry, c/o architect.

Calif., Inglewood — SUB-STATION—Los Angeles Ry. Co., Railway Bldg., Los Angeles, taking bids 1 story, 40 x 54 ft., steel and rein.-con., North Prairie Ave., here. Eng. Dept, of Owners, engrs.

Ont., LaSalle—BREWERY—Oct. 7, by Hofer Brewing Co., Royal Bank Bldg., Windsor, 2 story, 80 x 100 ft., brick and steel, Front St., here. $60,000. Nichols, Sheppard & Masson, Equity Chambers, Windsor, archts.

Ont., Ottawa—GARAGE—See "Contracts Awarded."

Contracts Awarded

Mass., Dorchester (br. Boston) — BAKERY—Continental Baking Co., 65 East Cottage St., 3 story and basement, 35 x 85 ft., rein.-con. and brick addition, plain foundation, to F. L. Fox, 101 Milk St., Boston.

Mass., Roxbury (br. Boston)—GARAGE and REPAIR SHOP—S. Rudnick, 68 Devonshire St., Boston, 1 story, 55¼ x 185 x 280 ft., rein.-con. and brick, plain foundation, 1322 Tremont St., to R. J. Gauvreau Co., 11 Beacon St., Boston. Archts. est. $75,000-$100,000. Noted Aug. 25.

Mass., South Boston (sta. Boston) — GARAGE and REPAIR SHOP — R. S. Brine, Transportation Co., 43 India St., Boston, 1 story, 70 x 120 ft., rein.-con. and brick, caisson foundation, 194 West 1st St., to H. M. Johnson, 571 East 1st St. To exceed $40,000. Noted July 21.

Mass., Watertown (Ind. br. Boston)—FACTORY—Lewis, Shepard & Co., 124 Walnut St., 1 story, 65 x 160 ft., rein.-con., brick and steel addition, plain foundation, to Somers & Drisco, Park Sq. Bldg., Boston.

Mass., Worcester — FACTORY — Norton Co., New Bond St., will build 1 story, 80 x 130 ft., brick and steel furnace building, New Bond St. $40,000 or more. Work will be done by separate contracts. Private plans.

Conn., Norwalk—GARAGE—R. Frost, 50 West Ave., 2 story, brick and steel showroom, service and auto repair station, Park St. and West Ave., to E. E. Bray Co., 62 Cannon St., Bridgeport. Archts. est. $40,000.

N. Y., Rensselaer—CHEMICAL FACTORY—Grasselli Chemical Co., Riverside Ave., foundation for factory to J. Dyer, Jr., 17 Steuben St., Albany; and steel, to McClintic Marshall Co., Oliver Bldg., Pittsburgh, Pa. Archts. est. $125,000.

N. J., Kearny (Sta. Arlington)—PLANT—Western Electric Co., Inc., Lincoln Highway, general contract 1 story, 100 x 350 ft., telephone cable and switchboard plant, brick and steel, to Henry Steers, Inc., Tube Concourse Bldg., Jersey City. Archts. est. $200,000.

N. J., Linden—FACTORIES—Grasselli Dye Stuffs Corp., Grasselli, general contract three 1 story, rein.-con., brick and steel, concrete pile foundations, here, to M. Byrnes Building Co., 430 Westfield Ave., Elizabeth. Archts. est. $150,000.

N. J., Paterson—REPAIR SHOP and GARAGE—J. A. McCrane Motors Co., 638 Market St., general contract 1 story, 100 x 300 ft., brick and steel, plain foundation, Market and East 36th St., here, to J. Dunn, 550 East 34th St. Archts. est. $150,000. Noted Sept. 1.

N. J., Rahway—FACTORY—Guarantee Realty & Security Co., Linden, will build 1 story, brick and steel, plain foundation, 106 Elizabeth Ave. $40,000. Work will be done by separate contracts. D. Valvano, 88 Broad St., Elizabeth, archt.

Pa., Oil City — GARAGE — Re-Mac Garage Co., general contract 1 story, 80 x 180 ft., brick and steel, Seneca St., to Rust Eng. Co., 311 Ross St., Pittsburgh. Archts. est. $40,000.

Pa., Pittsburgh—BRASS PLANT—Chaplin Fulton Mfg. Co., 36 Penn Ave., general contract 3 story and basement, approximately 60 x 100 ft., brick, steel and concrete addition, to Taylor Meyer Co., Keystone Bldg. Archts. est. $40,000.

Md., Baltimore—DAIRY—McCormick & Co., archts., 121 South Negley Ave., Pittsburgh, Pa., 3 story, 79 x 185 ft., rein.-con., brick and steel addition, Exeter and Colvin Sts., here, to C. L. Stockhausen Co., Gay and Water Sts., for Fairfield Farm Dairy, Inc., Exetor and Colvin Sts. $250,000. Noted Sept. 22.

Miss., Jackson—GARAGE and SERVICE—Robinson Bros. Motor Co., East Capitol St., will build 2 story, 85 x 145 ft., rein.-con., Amite and McQuade Sts., by day labor. $40,000. E. G. Hull, 212 Merchants Bank Bldg., archt. Noted Sept. 8.

Tenn., Memphis—WAREHOUSE—Jones & Laughlin Steel Co., 1 story, 100 x 400 ft., rein.-con. and steel, to Estes-Williams Constr. Co., Derman Bldg. $150,000.

O., Cleveland—FACTORY—Kaffee Hag Co., G. Gund, pres., 1478 Davenport Ave., 3 story and basement, 100 x 100 ft., brick and rein.-con., 1476 Davenport Ave., to J. Gill & Son, Bulkley Bldg. Archts. est. $125,000. Noted Sept. 29.

O., Cleveland—FACTORY and WAREHOUSE—Atlas Car & Mfg. Co., C. S. Harbaugh, secy.-treas., 1100 Ivanhoe Rd., 2 story and basement, 60 x 120 ft., brick and steel, 1100 Ivanhoe Rd., to Industrial Constr. Co., 308 Euclid Ave. Archts. est. $40,000.

O., Cleveland—FACTORL, etc.—Haberman Provision Co., c/o A. Haberman, secy., 2302 Bway., 60 x 180 ft. factory, and 61 x 180 ft. office building, brick and concrete, West 65th St., to Boldt-Rapp Co., 5511 Euclid Ave. Archts. $125,000. Noted Sept. 29.

O., Columbus — FACTORY — Fairmont Creamery Co., 12th and Jones Sts., general contract 4 story and basement, 130 x 187 ft., rein.-con., incl. loading platform, 2,000 sq.ft. space, 212 West Spring St., to E. Elford & Son, 555 Park St., $65,000.

O., Crooksville—FACTORY—Watt Pottery Co., 2 story, 42 x 127 ft., brick, tile and concrete, China St., to Bonifant & Karr, approximately $28,000.

Buildings—Industrial (Continued)

Ill., Chicago—PLANT—E. L. Mansure & Co., 1601 Indiana Ave., plant for manufacturing draperies, to Wells Bros. Constr. Co., 53 West Jackson Blvd.

Ill., Chicago—STORAGE and EXTENSIONS—Wisconsin Steel Wks., 2701 East 106th St., to A. Kerrison, 8027 Muskogen Ave., masonry contract brick storage, 2701-03 East 106th St. $70,000, extension, 2615-25 East 110th St. $40,000, and 1 story, 143 x 168 ft. brick extension, 2744-68 East 110th Pl. $200,000. Grand total $310,000.

Ill., Chicago—FACTORY—Regan Constr. Co., 228 South La Salle St., masonry contract 2 story, 125 x 200 ft., brick, 1736-56 Springfield Ave., to W. Thompson, 1752 North Keeler Ave. Archts. est. $45,000.

Mo., St. Louis—SIGN FACTORY—Grace Sign & Mfg. Co., 3601 South 2nd St., 1 story, 75 x 260 ft., rein.-con. and steel addition, 2nd and President Sts., to William H. & Nelson Cunliff Co., 410 North Euclid Ave.

Tex., Ozona—ICE PLANT—West Texas Utilities Co., Abilene, will build 1 story, 40 x 90 ft., rein.-con., stucco, hollow tile, and stone, concrete pile and plain foundation, here, by day labor. $40,000. Private plans.

Calif., Salinas—COLD STORAGE and ICE PLANT—Salinas Ice & Cold Storage Co., general contract 1 story cold storage and ice plant, to La Faver Eng. Co., 545 2nd St., San Francisco.

Ont., Ottawa—GARAGE—Beach Motors Ltd., Bank St., will build 2 story and basement, rein.-con., brick and steel, concrete foundation, Bank St., by day labor. $50,000.

Ont., St. Catharines—SOAP FACTORY—Scholler Bros., 80 x 169 ft., 30 ft. high, soap factory, brick, Queenston St., to T. F. Jones, 167 Church St. Archts. est. $40,000.

Buildings—Educational, Religious

Proposed Work

Mass., Clinton—CHURCH—St. Mary's Parish, J. Osgajca, pastor, having preliminary plans prepared by J. W. Donahue, 1242 Main St., Springfield, 1 story and basement, brick and stone church. $150,000. Noted Sept. 22.

Mass., Waltham (Ind. br. Boston)—COLLEGE—Middlesex College of Medicine & Surgery, H. S. Card, pres., 85 Otis St., Cambridge, plans group buildings, incl. science and lecture buildings, dormitories, gymnasium and athletic field, South St., here. To exceed $150,000. Engineer and architect not selected.

N. Y., New York—CHURCH and HOTEL—Tillion & Tillion, archts., 415 Lexington Ave., soon lets contract (selected list of bidders), 25 story and basement, 79 x 130 ft., rein.-con., brick and steel, plain concrete foundation, Bway. and 76th St., for Twenty-One Sixty-Six Bway. Corp. $2,000,000. Manhattan Congregational Church, lessee. Noted June 30.

N. Y., Nyack—SCHOOL—Bd. Educ., City Hall, soon takes bids 2 story and basement, 150 x 250 ft., brick and steel, plain and concrete pile foundation, Midland and 5th Aves. $600,000. E. Sibley, Bluff Rd., Palisade, N. J., archt. Noted Aug. 25.

N. J., Moorestown—CHURCH and RECTORY—Trinity Protestant Episcopal Church soon lets contract church and rectory. $150,000. Karcher & Smith, 1520 Locust St., Phila., Pa., archts. Noted Mar. 3.

N. J., Union—HIGH SCHOOL—Bd. Educ., Town Hall, having sketches made by F. Elsasser, 845 Broad St., Elizabeth, 2 or 3 story and basement, brick and steel addition, Vauxhall Rd. $150,000.

N. J., Union—SCHOOL—Bd. Educ., Town Hall, plans 2 story and basement, brick and steel, plain foundation, Oakland Ave. $150,000. F. A. Elsasser, 845 Broad St., Newark, archt.

Pa., Cambridge Springs—COLLEGE—Polish Natl. Alliance College having plans prepared by Narcyz Kostrazannoski, 12110 Outer Blvd., Detroit, Mich., 4 story and basement, brick and steel college. $220,000.

Pa., Coudersport—CONSISTORY CATHEDRAL—Coudersport Consistory, J. G. Convey, secy., having plans prepared by E. A. Phillips, 238 Penna Ave., Warren, probably brick and steel consistory Cathedral. $200,000.

Pa., Irwin—CHURCH—Methodist Episcopal Congregation having plans prepared by Bd. Architects Home Missions, Methodist Episcopal Church Bldg., 1701 Arch St., Phila., probably stone, Walnut St. $200,000.

Pa., Phila.—RECREATION, etc.—E. A. Schoeppe, archt., 1437 Spruce St., preparing plans 2 story, 90 x 280 ft., timber recreation building, incl. 45,000 sq.ft. rein.-con. swimming pool, Roosevelt Blvd. and Cottman St. Owner's name withheld.

D. C., Wash.—SCHOOLS—District Comrs., District Bldg., having sketches made addition to Brightwood Junior High, and Morgan Schools, latter on Champlain St. and Florida Ave., N. W.; also having plans prepared Washington School, Kalania Rd. near 16th St., $457,000.

O., Cleveland—TECHNICAL SCHOOL—Y. M. C. A., c/o R. Lewis, secy., East 22nd St. and Prospect Ave., having plans prepared by Hubbell & Benes Co., 4500 Euclid Ave., 4 story, 50 x 120 ft., brick, steel and concrete, East 22nd St. and Prospect Ave. $200,000.

Ind., Bloomington—FIELD HOUSE—Indiana University having plans prepared by R. F. Daggett, 922 Continental Bank Bldg., Indianapolis, 1 story, 200 x 300 ft., rein.-con., brick, steel and stone indoor field house, $300,000.

Ind., Ft. Wayne—SCHOOLS—School Comrs. having preliminary plans prepared Franklin School. $150,000, Washington School $140,000, Administration Building $65,000, Harrison Building $80,000, Lafayette School $140,000, etc. Engineer and architect not selected.

Illinois—SCHOOL—Bd. Educ., Park Ridge and Des Plaines, having sketches made by J. H. Chubb, archt., 109 North Dearborn St., Chicago, and Zook & Mccaughey, 222 West Adams St., Chicago, associated archts., 3 story building, incl. 40 x 80 ft. library with balcony, 80 x 100 ft. gymnasium, 25 x 75 ft. swimming pool, 1,000 seating capacity auditorium, also class rooms, etc. on 400 x 600 ft. site, Demster St., Potter and Des Plaines Rds., between Park Ridge and Des Plaines. $500,000.

Mo., St. Louis—ORPHANAGE—Jewish Orphans Home, 3117 Lafayette Ave., having plans prepared by W. Levy, 500 Dolph Bldg., and takes bids about Oct. 15, 3 story and basement, rein.-con., brick and stone, incl. administration building, assembly hall and 3 residences, etc., Oakland Ave. $250,000.

Tex., Panhandle—HIGH SCHOOL—Bd. Educ., c/o C. P. McCullough, having plans prepared by Butler Co., c/o Wilson Bldg., Lubbock, 2 story, rein.-con. and brick, plain foundation. $150,000.

Tex., San Antonio—ACADEMY—Society of Mary, J. C. Ei, pastor, c/o St. Marys Academy, College St., plans probably 4 story, fireproof building, on block bounded by Huisache, Ripley, Mulberry and North Flores Sts. $400,000. Private plans.

Tex., Stinnett—SCHOOL—Bd. Educ., A. T. Miles, pres., having plans prepared by Butler Co., Wilson Bldg., Lubbock, 2 story, rein.-con. brick, plain foundation. $200,000. Noted Aug. 25.

Okla., Okewah—CHURCH—Methodist Episcopal Church having preliminary plans prepared 2 story and basement, rein.-con. and brick, plain foundation, 6th St. $175,000. Engineer and architect not selected.

Okla., Woodward—CHURCH—Presbyterian Church having preliminary plans prepared rein.-con. and brick church, 7th St. $150,000. Engineer and architect not selected.

Wash., Seattle—PHYSICAL—University of Washington having plans prepared by J. Graham, Dexter Bldg., physical building. $465,000.

Wash., Seattle—CHURCH—Sacred Heart Catholic Church, 2315 6th St., plans expending $500,000 constructing church, 2 story school and residence, foot of Queen Anne Hill.

Calif., Glendale—HIGH SCHOOL—Glendale Union High School Dist. having plans prepared by A. F. Priest, Fay Bldg., Los Angeles, rein.-con. and steel high school. $1,000,000. Noted July 14.

Calif., Lawndale (mail Kenwood)—HIGH SCHOOL—Inglewood Bd. Educ. plans high school, here. Approximately $250,000 bond election soon for same.

Calif., Los Angeles—CHURCH—University Methodist Episcopal Church, 1016 West Jefferson St., plans probably rein.-con. church, 36th St. $200,000. Engineer and architect not selected.

Calif., Monterey—CHURCH—Church of San Carlos Borromeo (Catholic) plans rein.-con. church. $150,000.

Calif., Mountain View—SCHOOL—Mountain View Union High School Dist. rescinded contract 2 story, rein.-con. school. Will readvertise. Noted Sept. 1.

Calif., Oakland—SCHOOL—Bd. Educ. soon takes bids concrete and brick veneer annex, East 17th St., for Oakland School Dist. $150,000. W. H. Weeks, 369 Pine St., San Francisco, archt. Noted June 9.

Calif., Stockton—CHURCH—East Side Presbyterian Church having sketches made by Davis-Pearce Co., Inc., Grant and Weber Sts., 2 story, rein.-con. and brick, Miner and Sierra Nevada Aves. $150,000.

Bids Desired

Vt., Rutland—HIGH SCHOOL—Oct. 13, by City, A. W. Perkins, mayor, City Hall, 3 story and basement, 200 x 215 ft., brick and stone, plain foundation, Church St. $300,000. A. G. Creighton, 140 State St., New London, Conn., archt. R. D. Kimball Co., 6 Beacon St., Boston, Mass., engrs. Noted July 21

Conn., Hartford—TEMPLE—Oct. 8, by Congregation Beth Israel, I. Wise, chn., 3 story, 125 x 125 ft., brick, limestone and steel, Farmington Ave. $250,000. Noted Sept. 29.

N. Y., Brooklyn—SCHOOL—Oct. 19, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., general contract P. S. 222, Quentin Rd. between East 33rd and 34th Sts., for Bd. Educ., 500 Park Ave., New York City.

N. J., Princeton—HIGH SCHOOL—Bd. Educ., City Hall, taking bids 2 story and basement, brick and steel, plain foundation, North Moore St. $750,000. E. Sibley, Bluff Rd., Palisade, archt.

N. J., Trenton—HIGH SCHOOL—Bd. Educ., City Hall, taking bids general contract Central Senior High School, 2 story and basement, brick and steel, plain foundation, Chamber St. and Hamilton Ave. $3,000,000. E. Sibley, Bluff Rd., Palisade, archt. Noted Aug. 18.

N. J., Trenton—SCHOOL—Oct. 11, by Hamilton Twp. School Bd., 2 story, 12 room, brick and steel addition to Kuser School, Newkirk Ave., here. $160,000. W. A. Klemann, 1st Natl. Bank, archt.

Pa., Valley View—HIGH SCHOOL—Oct. 7, by School Bd., c/o R. A. Bassler, Higgins Twp. High School, 2 story and basement, 50 x 190 ft. and 127 x 230 ft., rein.-con. and brick, plain foundation, Higgins Twp. Ritchie & Eiler, 147 North 5th St., Reading, archts.

W. Va., West Liberty—ADMINISTRATION—Oct. 10, by West Liberty State Normal School, 3 story, 63 x 113 ft., concrete, brick and steel administration building. F. Faris, 1117 Chapline St., Wheeling, engr.

O., Cleveland Heights (Warrensville P. O.)—SCHOOL—Oct. 17, by Bd. Educ., W. G. Nesbit, dir., 14387 Superior Rd., 2 story and basement, 76 x 240 ft., brick, steel and concrete, Oxford Rd. $300,000. J. H. Graham & Co., 1612 Euclid Ave., Cleveland, archts.

Ind., Indianapolis—NURSES HOME—Oct. 15, by Methodist Hospital, 7 story and basement, 300 room, rein.-con., brick and steel, 18th St. and Capitol Ave. $500,000. D. A. Bohlen & Son, 1001 Majestic St., archts. Noted Apr. 28.

Ind., Muncie—DEMONSTRATION—Oct. 11, by State Normal School, rein.-con., brick and steel demonstration building. $275,000. Snyder & Babbitt, 1212 Hayden Bldg., Columbus, O., archts.

Ill., Chicago—HIGH SCHOOL—Oct. 13, by Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., Kelly Junior High School, rein.-con., stone, steel and terra cotta, West 42nd St. and California Ave. J. C. Christensen, 650 South Clark St., archt.

Calif., Mountain View—SCHOOL—Trustees Mt. View Grammar School Dist., taking bids 2 story, rein.-con. school. $150,000 or more. Coffey, Gottschalk & Rist, Phelan Bldg., San Francisco, archts.

Calif., Redlands—GYMNASIUM—University of Redlands taking bids 1 story, 190 x 225 ft., rein.-con. and steel, incl. 40 x 100 ft. swimming pool, kitchenette, etc. $200,000. N. F. Marsh & Co., Bway. Central Bldg., Los Angeles, archts.

Calif., Stockton—HIGH SCHOOL—Trustees Calaveras Union High School Dist., taking bids part 1 and 2 story, rein.-con. high school. $150,000. Mayo, Bissell & Co., 21 South San Joaquin St., archts. Noted Apr. 7.

Contracts Awarded

Conn., Hartford—SYNAGOGUE—Agudus Achim Congregation, B. Eachtel, 2 story and basement, 68 x 100 ft., rein.-con., brick and stone, plain foundation, Oakland Terrace and Greenfield St., to M. Juster, 437 Main St. Archts. est. $150,000. Noted Aug. 25.

Conn., Wethersfield—HIGH SCHOOL—School Bd., Town Hall, 2 story and basement, 120 x 130 ft., brick and stone, Church

Buildings—Educational, Religious (Cont.)

St., to Richard Johnson Co., 50 Trumbull St., Hartford. Archts. est. $185,000.

N. Y., Brooklyn—HIGH SCHOOL—McKenna & Irving, archts., 15 Park Row, New York City, brick and stone addition, here, to John Kennedy Co., Mosholu Ave. and Bway., New York City, for Brooklyn College, 1125 Carroll St. Noted Sept. 15.

N. Y., New York—LIBRARY—Bd. Trustees College of City of New York, Convent Ave. and 139th St., brick, steel and stone, 140th St. and Convent Ave., to Eastern Eng. Co., 26 Court St., Brooklyn. Archts. est. $250,000. Noted Jan. 6.

N. Y., New York—CHURCH and RECTORY—R. J. Reilly, archt., 12 East 41st St., 2 story, 100 x 125 ft. church, and 3 story 35 x 60 ft. rectory, 187th St. and Wadsworth Ave., to Sobray-Whitcomb Co., 105 West 40th St., for St. Elizabeth Roman Catholic Church, 187th St. and Wadsworth Ave. Archts. est. $525,000. Noted Sept. 15.

Md., Baltimore—NURSES HOME—Smith & May, archts., Calvert Bldg., 7 story, irregular shaped, brick, steel and stone, plain foundatio , West Lombard St., to Cogswell-Koether Co., 406 Park Ave., for University of Maryland. $150,000.

D. C., Wash.—HIGH SCHOOL—District Comrs., District Bldg., for Garnett-Patterson School, 10th and U Sts. N.W. to C. H. Tompkins, 1612 Park Rd. N.W., $527,000. Noted Aug. 11.

Fla., Tampa — HIGH SCHOOL — Hillsborough Co. Bd. Pub. Instruction general contract, East Side Senior High School, rein.-con., terra cotta and brick, to J. L. Crouse, Greensboro, N. C., $757,000.

Miss., Blue Mountain—DORMITORY and OFFICE—Blue Mountain College, L. T. Lowery, pres., 3 story and basement, 55 x 144 ft. dormitory, and 3 story administration building, both rein.-con., brick and steel, plain foundations, to Chastang Constr. Co., Amory, $191,000.

Ind., Lafayette — DORMITORY—Purdue University, general contract Franklin Levering Gary Memorial Hall, 3 story and basement, 42 x 270 ft., rein.-con., brick, steel and stone, to A. E. Kemmer, Lafayette, $178,140. Noted Sept. 22.

Ind., Muncie—HIGH SCHOOL—School Comrs., general contract Wilson Junior High School, 3 story and basement, 96 x 175 ft., rein.-con., brick and steel to A. Ainsworth, 641 Ohio St., Terre Haute; heating and plumbing, to E. L. Clevenger, Muncie. Archts. est. $172,000. Noted May 19.

Ill., Chicago—SCHOOL—Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., for Spalding School, 2 story, winged shaped building, Washington and Ashland Sts., to H. A. Hanson Constr. Co., 608 South Dearborn St. $1,029,677. Noted Sept. 15.

Ill., Chicago—SCHOOL—Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., general contract Hookaway School, 3 story, 82 x 240 ft., concrete and stone. 81st and Federal Sts., to Hanson Bros. Co., 127 North Dearborn St. $270,635. Noted Aug. 18.

Minn., Mankato — HIGH SCHOOL — Bd. Educ., E. F. Searing, clk., general contract 2 story and basement, 160 x 200 ft., rein.-con., brick and stone, to E. Carlstrom, Mankato, $216,700. Noted Sept. 8.

Kan., Rosedale (Ind. sta. Kansas City)—NURSES' HOME and WARD — Kansas University School of Medicine, c/o Bd. Administration, State House, Topeka, general contract 1 and 5 story, 46 x 85 ft. nurses home, and 5 story and basement 42 x 94 ft. and 29 x 84 ft. ward building, brick, concrete, steel and stone, here, to Sharp Bros. Constr. Co., 604 Orear-Leslie Bldg., Kansas City, Mo., $84,282 and $131,863 respectively; heating and plumbing, to Reed Co., 3135 Karnes Blvd., Kansas City, Mo., approximately $46,600.

Tex., Lubbock — ENGINEERING—Technological College, c/o E. W. Provence, bus. mgr., general contract 2 story and basement, 146 x 278 ft., rein.-con., brick, steel and stone, to Sampson Constr. Co., Lubbock, $194,125. Noted Aug. 25.

Okla., Chickasha—DORMITORY—State Bd. of Affairs, Capitol, Oklahoma City, 3 story and basement, rein.-con. and brick, plain foundation, on campus Oklahoma College for Women, here, to Kreipke Constr. Co., 506 Herskowitz Bldg., Oklahoma City, $225,219. Noted Aug. 25.

Okla., Oklahoma City — MEDICAL SCHOOL—Bd. Regents, 3 story and basement, rein.-con. and brick, plain foundation, East 13th St., to Reinhart & Donovan, Trades Natl. Bank Bldg., $224,900. Noted Sept. 1.

Okla., Sulphur—SCHOOL—Bd. of Affairs, Capitol, Oklahoma City, 2 story and basement, 90 x 116 ft., rein.-con. and brick, plain foundation, for State School of Deaf, on campus, here, to G. C. Frier, Sulphur, $105,114. Noted Sept. 8.

Calif., Los Angeles — UNIVERSITY — University of California, 3 story and part 2 story and basement, 280 x 300 ft., rein.-con., Norman tapestry brick, and steel library, auditorium and classroom building, Westward Companies, to J. C. Bannister, 6331 Hollywood Blvd., and F. Gow, 4350 Clarissa St., $1,494,816. Noted Sept. 15.

Calif., Oakland—MUSIC HALL—Mills College, 2 story and basement, concrete, on campus, to Leiter & Son, Call Bldg., San Francisco, approximately $250,000.

Que., Montreal — SCHOOL — Roman Catholic School Comn., 24 room, brick, steel and stone, Monk Blvd., to Alphonse Gratton Ltd., 511 Ste. Catherine St. W., $174,990.

Federal Government Work

Proposed Work

Wash., Puget Sound — Motor Generator Sets—Spec. 5447—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans motor generator sets at Navy Yard, here.

Porto Rico, San Juan—Quarters—Spec. 5448—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans 1 story double quarters at Naval Radio Station, here.

Bids Desired

N. H., Portsmouth—Elevator—Oct. 21, by Treas. Dept., at Office Supervising Archt., Wash., D. C., 1 passenger elevator in present hoistway U. S. Post Office and Custom House, here.

Mass., Camp Devens—Barracks—Oct. 20, by Constructing Quartermaster, constructing Battalion Barrack, 1 regimental headquarters, etc.; adv. E. N.-R. Oct. 6.

Miss., Corinth—Heating System—Oct. 14, by Constructing Quartermaster, hot water heating system in superintendent's lodge, at Natl. Cemetery, here.

Tenn., Memphis—Heating System—Oct. 14, by Constructing Quartermaster, hot water heating system in superintendent's lodge, at Natl. Cemetery, here.

O., Camp Perry (br. Port Clinton)—Wash Houses—Oct. 14, by U. S. Property & Disbursing Officer for Ohio, Columbus, 3 battalion wash houses, here.

Mo., St. Louis—Earthwork—Oct. 11, at office District Engineer Northern Mississippi River Comn. Dist., Customhouse, 35,000 cu.yd. earthwork in Levee Dist. 3, Perry Co., and 20,000 cu.yd. in Ste. Genevieve Levee Dist. 1; adv. E. N.-R. Oct. 6.

Mo., Springfield—Heating System—Oct. 14, by U. S. Property & Disbursing Officer. St. Louis, hot water heating system, in superintendent's lodge, Natl. Cemetery, here.

Ark., Fayetteville—Heating System—Oct. 14, by Constructing Quartermaster, hot water heating system in superintendent's lodge, Natl. Cemetery, here.

Calif., Oakland—Dredging—Oct. 20, by U. S. Engineer Office, San Francisco, dredging 400,000 cu.yd. Oakland Harbor here.

T. H., Pearl Harbor — Refrigeration Plant Spec. 5482—Nov. 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., refrigerating plant, at Naval Operating Base (Submarine Base), here. Noted Sept. 15.

Bids Received

N. Y., New York—Piping—Treas. Dept., at office Supervising Archt., Wash., D. C., Sept. 29. brass water supply system, at U. S. Custom House, here, from C. J. Gleason, 172 Walton Way, Augusta, Ga., $22,650. Noted Sept. 15.

Pa., Pittsburgh—Dam—U. S. Engineer Office, Sept. 30, constructing Dam 6, Allegheny River, here, from Dravo Contg. Co., Neville Island, $558,316. Engrs. est. $750,000. Noted Sept. 8.

Fla., Pensacola—Concrete Fire Wall—Spec. 5456—Bureau Yards & Docks, Navy Dept., Wash., D. C., Sept. 28, concrete fire wall at Naval Air Station, here, from A. D. Rieger & Co., Box 1836, Sarasota, $8,332. Noted Aug. 25.

Ala., Dothan—Screen—Treas. Dept., at office Supervising Archt., Wash., D. C., Sept. 23, changes in U. S. Post Office screen, here, from Smythe & Co., Wash., D. C., $3,329. Noted Sept. 8.

Ind., Newcastle—Sewer—Treas. Dept., at office Supervising Archt., Wash., D. C., Sept. 27, new sewer, from J. Garvey, Newcastle, $3,216. Noted Sept. 22.

Wis., Camp Douglas—Bathhouses, etc.—U. S. Property & Disbursing Officers, Sept 21, constructing 3 officers bathhouses, 1 combined kitchen and mess hall, tent floors, etc., from Roth Bros., 1402 West Adams St., Chicago, Ill., $8,910.

N. D., Jamestown—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., Sept. 29, U. S. Post Office, here, from E. Rokahr & Sons, 914-15 Terminal St., Lincoln, Neb., $154,799. Noted Sept. 22.

Colo., Denver — Emergency Gates — Bureau Reclamation, Sept. 20, two 3½ x 3½ ft. emergency gates, from Llewellyn Iron Wks., 1200 North Main St., Los Angeles, Calif., $8,420; and 50 in. outlet pipe, from King Bros., $3,230. Noted Aug .1.

California — Guard Rail and Paving — Natl. Park Serv., Dept. of Interior, 907 Sheldon Bldg., 481 Market St., San Francisco, Sept. 20, masonry rail and stone ditch paving, Yosemite Natl. Park Highway System, Mariposa Co., from City Impvt. Co., 955 South Alameda St., Los Angeles, $46,975. Noted Sept. 15.

Calif., Los Angeles—Dredging—U. S. Engineer Office, 725 Central Bldg., Sept 21, dredging 2,070,000 cu.yd. Los Angeles Harbor, etc., from San Francisco Bridge Co., Nevada Bank Bldg., San Francisco, at $0.55 per cu.yd., total $1,238,500. Noted Sept. 1

Calif., San Diego—Quarters—Spec. 5322—Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing sick officers quarters and gate house at Naval Operating Base, here, from Los Angeles Contg. Co. 4816 West Pico St., Los Angeles, $153,000. Noted Sept. 1.

Contracts Awarded

Vt., Burlington—Roof Repairs—Treas. Dept., at office Supervising Archt., Wash., D. C., roof repairs at U. S. Post Office, here, to E. Van Noorden Co., 100 Magazine St., Boston, Mass., $8,488. Noted Sept. 29.

Mass., Marlboro — Post Office — Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here, to J. Miles & Son Co., Worcester, $5,337. Noted Sept. 22.

Mass., Rutland—Roads and Walks—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., roads and walks at U. S. Veterans Hospital, here, to Guaranty Constr. Co., 33 Front St., Shirley, $9,760. Noted Sept. 8.

N. Y., Buffalo—Interior Changes—Treas. Dept., at office Supervising Archt., Wash., D. C., interior changes at U. S. Marine Hospital, here, to W. A. Walker, 24 Vernon Pl., $13,970. Noted Sept. 29.

D. C., Wash.—Additional Stories—Treas. Dept., at office Supervising Archt., Wash., D. C., additional stories to U. S. Liberty Loan Building, here, to Skinker & Garrett, 1416 F St. N. W., $183,597. Noted Sept. 29.

Va., Yorktown — Magazine Buildings — Spec. 5476—Bureau Yards & Docks, Navy Dept., Wash., constructing magazine buildings, to Hugger Bros. Constr. Co., 703 Shepherd Bldg., Montgomery, Ala., Items 1 and 4a $229,875. Noted Sept. 15.

Louisiana — Levee — Mississippi River Comn., 4th Dist., levee work in Lower Tensas, Pontchartrain, Lake Borgne, Atchafalaya and Red River Levees, Atchafalaya and Bayou Boeuf Dists., to Dameron & Kenyon, Port Allen $161,234, to D. B. Hearon & Son, 306 New Reymond Bldg., Baton Rouge $41,831, and to Lower Coast Constr. Co., Ltd., Godchaux Bldg., New Orleans $45,671. Grand total $248,736. Noted Sept. 8.

Tenn., Chattanooga—Core Borings—U. S. Engineers Office, diamond core borings on Tennessee River between Aurora Landing, Ky., and lower Coulter Shoal, Tenn., to Standard Drilling Co., 420 Lexington Ave., New York City, $13,420.

Ky., Louisville—Hoist—U. S. Engineer Office, floating frame hoist, to Dravo Contg. Co., Neville Island, Pittsburgh, Pa. $29,800. Noted Aug. 25.

Wis., Milwaukee—Barges—U. S. Engineer Office, constructing 2 steel barges for Fox River, to Manitowoc Ship Building Corp., Manitowoc $20,140. Noted Aug. 18.

Unclassified

Proposed Work

Shelter House—Cambridge (br. Boston), **Mass.**—City, J. F. Terry, Building Dept., Comn., City Hall, having revised plans prepared 1 story, concrete shelter house.

Unclassified (Continued)

Rindge Field. $25,000. Former bids rejected. E. T. P. Graham, 171 Newbury St., Boston, archt.

Underpass — Jackson, Miss. — Plans underpass, on Cohea St. $36,000.

Pedestrian Tunnels—Highland Park (br. Detroit), **Mich.**—City plans 14 rein.-con. pedestrian box tunnels under main thoroughfares near schools. $150,000. L. C. Whitsit, city engr.

Terminal and Switch Track—St. Louis, Mo. See "Buildings-Commercial."

Natural Gas Pipe Line — Texas — Community Gas Co., Temple, made plans and surveys 6 or 8 in. natural gas pipe line from Temple to Belton. $35,000 (material and machinery). Private plans.

Gas System — Hereford, Tex. — West Texas Gas Co., Amarillo, plans gas system, here. $60,000. Private plans.

Townsite Development—Memphis, Tex. —I. M. Futch, et al, c/o Pound Hotel, plans developing townsite of "Weatherly" near here, incl. street improvements, $40,000, waterworks $30,000, and sewers $25,000. Private plans.

Transmission Line — Oklahoma — Oklahoma Gas & Electric Co., Insurance Bldg., made plans 33 mi. 6,300 volt transmission line from Weleetka power plant to Seminole oil fields. $75,000. Byllesby Eng. Co., 231 South La Salle St., Chicago, Ill., engrs.

Transmission Line — Oklahoma — Oklahoma Gas & Electric Co., Insurance Bldg., Oklahoma City, made plans 30 mi. 6,300 volt transmission line from Drumright to Sapulpa. $60,000. Byllesby Eng. Co., 231 South La Salle St., Chicago, Ill., engrs.

Lighting System—Cushing, Okla.—Voted $25,000 bonds, "White Way" electric lighting system. Noted July 7.

Lighting System—Okemah, Okla.—Made preliminary plans new 100 post "White Way" lighting system. $25,000. A. C. McCord, Okemah, engr.

Power Line—California—Turlock Irrigation Dist., Turlock, plans 14 mi. power line from Don Pedro to Merced Falls.

Lighting System—Fullerton, Calif.—F. C. Hezmalhalch, city clk., plans ornamental lighting system on North Richman Ave. from West Malvern and West Union Aves., etc. $25,000 or more.

Fire Alarm System—Huntington Park, Calif.—Plans election $75,000 bonds, fire alarm system.

Lighting System — Huntington Park, Calif.—Plans ornamental lighting system on Slauson Ave. and Pacific Blvd., etc. To exceed $25,000.

Golf Course, etc.—Millbrae, Calif.—S. E. Welfield, Flood Bldg., San Francisco, plans 18 hole golf course and club house, for Union League Golf & Country Club. $400,000.

Parking Pier — Oceanpark (Ind. sta. Santa Monica), **Calif.**—J. Paxton, archt., soon takes bids approximately 100,000 sq. ft., parking space for automobiles, foot of Kinney St., for Ocean Park Realty Co. $150,000. Owner furnishes piling and timber.

Lighting System — Pasadena, Calif. — Made plans ornamental lighting system on Colorado St., etc. $25,000 or more. W. C. Earle, city engr.

Lighting System—San Francisco, Calif.—Irving Street Merchants Assn., 2037 Irving St., plans ornamental lighting system, Irving St. business district. To exceed $25,000.

Swimming Pool — Thermalito, Calif.—Thermalito Farm Center plans 50 x 100 ft. concrete community swimming pool.

Bids Desired

Station—Cambridge (br. Boston), **Mass.** —Oct. 18, by Dept. Pub. Utilities, State House, Boston, altering stone, brick and steel surface structure station, at Harvard Sq., here. $25,000 or more. Private plans.

Park Improvements—Brooklyn, N. Y.—Oct. 11, by Park Bd., W. R. Herrick, pres., Arsenal Bldg., Central Park, New York City, improving Joseph A. Guider Park, Eastern Parkway, Washington and Classon Aves., here.

Mechanical Equipment—Brooklyn, N. Y. —Oct. 19, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., plumbing, heating, ventilating, etc. in P. S. 222, Quentin Rd., for Bd. Educ., 500 Park Ave., New York City.

Heating, Plumbing, etc.—Flushing, N. Y. —T. W. Lamb, archt., 644 8th Ave., New York City, taking bids heating, plumbing, wiring, etc., in theatre, Northern Blvd. and Farrington Sts., here, for B. F. Keith Theatres, 1564 Bway., New York City. Noted Aug. 25 under "Buildings—Commercial."

Mechanical Equipment — Long Island City, N. Y.—Bloomingdales Bros., Inc., 59th St. and Lexington Ave., New York City, taking bids and opens same about Nov. 30, mechanical equipment for warehouse (now under construction), Hunters Point Ave., here. $500,000. Abbott Murkt & Co., 175 5th Ave., New York City, archts.

Electric Switching Equipment — Phila., Pa. — Oct. 10, by Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., electrical switching and control equipment in Substations 4, 5 and 6; also in Broad Street Subway, Contr. 150. Former bids rejected.

Heating, Plumbing, etc.—Chicago, Ill.—Oct. 13, by Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., steam heating, plumbing, ventilating, heat regulation, coal and ash conveyor and electric work in Manley Jr. High School, Polk and Sacramento Sts., electrical work in Spalding School. J. C. Christensen, 650 South Clark St., archt.

Pipe Line — Texas — See "Contracts Awarded."

Land Development—San Antonio, Tex.—T. F. Ragsdale, Brady Bldg., taking bids 56 acre sub-division development on Fredericksburg Rd., incl. street paving $45,000, sewers $40,000, and waterworks $30,000. Private plans. Noted Aug. 11.

Pole Lines and Transformer Stations—Los Angeles, Calif.—Oct. 17, by Supervs. Los Angeles Co., pole lines and transformer stations at Los Angeles County Farm.

Subway—Martinez, Calif.—Oct. 17 by J. H. Wells, clk Contra Costa Co., subway, 10,125 lb. structural steel, 767 cu.yd. concrete, 39,890 lb. reinforcing, etc. $28,000 or more. R. R. Arnold, Martinez, co. surv.

Power Line—Modesto, Calif.—See "Contracts Awarded."

Contracts Awarded

Foundation—New Haven, Conn.—United Illuminating Co., 84 Temple St., foundation for 1 story, 185 x 200 ft. brick, steel and concrete power unit, incl. intake and discharge tunnels and sea walls, Grand Ave., to Foundation Co., 120 Liberty St., New York City, approximately $151,000.

Bridge Plazas—New York and New Jersey—Port of New York Authority, 75 West St., New York City, bridge plaza for Tottenville-Perth Amboy Bridge, at Tottenville, N. Y., to W. H. Gahagan, Inc., 187 Remsen St., Brooklyn, N. Y., $226,738, and at Perth Amboy, N. J., to T. J. M. Contg. Co., 120 South 2nd St., New Brunswick, N. J., $38,214; Howland Hook-Elizabeth Bridge, at Howland Hook, N. Y., to Frederick Snare Corp., 144 Liberty St., New York City, N. Y., $98,615, and at Elizabeth, N. J., to Triest Contg. Co., 247 Park Ave., New York City, N. Y., $80,970. Grand total $444;537. This corrects report in Sept. 29 issue.

Steel Cells—Freehold, N. J.—Bd. Freeholders Monmouth Co., steel cells in jail, to Van Doorn Iron Wks., 2585 East 79th St., Cleveland, O., $42,500.

Subway Stations—Phila., Pa.—Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., station finish for Race-Vine, Spring Garden, Fairmount and Girard Stations, Broad Street Subway, Constr. 181, to Golden Constr. Co., 263 South 15th St., $321,725. Noted Sept. 15.

Train Shed—Pittsburgh, Pa.—Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad St. Sta., Phila., general contract seven 1 story, temporary train sheds and platforms at east end present sheds, Pennsylvania Station, here, to John F Casey Co., Aspinwall. Engrs. est. $40,000.

Bath House, etc.—Wash., D. C.—Pub. Buildings & Pub. Parks, bath house, beginners swimming pool and another swimming pool, at McKinley High School, here, to G. G. Loehler, Franklin Natl. Bank Bldg., $79,950. Noted Aug. 25.

Wharf Extensions—Lake Charles, La.—Wharf & Dock Bd., extending 734 ft. dock, 180 ft. wide, constructing wall, etc., to Doullut & Erwin, Q and C Bldg., New Orleans, $221,762. Noted Aug. 18.

Gas Pipe Line—Texas—Dixie Gulf Gas Co., Houston, 300 mi. 21 in. pipe line from Waskom gas field in East Texas to Houston and Port Arthur, to Hope Eng. & Supply Co., Mount Vernon, O. Engrs. est. $14,000,000.

Pipe Line—Texas—Wakefield & Bryant, Brownwood, will build 12 mi. 4 in. welded pipe line from field near Brownwood to Brady, by day labor. $70,000. Private plans.

Grain Elevator — Longview, Wash. — Comrs. Longview Port, 370,000 bu. grain elevator, to Alloway & Georg, Hutton Bldg., Spokane, $371,813. Engrs. est. $416,000.

Lighting System—Anaheim, Calif.—E. B. Merritt, city clk., ornamental lighting system on North and South Lemon Sts., to Robertson Electric Co, 303 South Main St., Santa Ana, $25,602; East and West Bway., also North Lemon St., to Walker & Martin, 402 West Wilshire Blvd., Fullerton, $44,981 and $25,124 respectively. Noted Sept. 15.

Transit Shed—Los Angeles, Calif.—Los Angeles Harbor Comm., F. Nicholson, harbor engr., general contract 120 x 960 ft., steel transit shed, at San Pedro Berth 228-D, to Lynch Constr. Co., 730 Merrill Ave., $127,495. Noted Apr. 21.

Power Line—Modesto, Calif.—Modesto Irrigation Dist. will build 40 mi. power line, by own forces; furnishing copper, to Pacific States Electric Co., 575 Mission St., San Francisco, $32,004; insulators and hardware, to Ohio Brass Co., Matson Bldg., San Francisco, $12,500; galvanized steel poles, to Pacific Coast Steel Co., Rialto Bldg., San Francisco, $41,000.

Lighting System—Sacramento, Calif.—Ornamental lighting system on portions Jeffery Ave., etc., to Teichert & Son, Inc., Ochsner Bldg., $66,282.

Materials

Proposed Work

Fuel Oil—Brawley, Calif.—O. M. Juvenal, city clk., plans purchasing six to ten 10,000 gal. cars fuel oil, 20 to 30 degree gravity.

Gravel—Fresno, Calif.—D. M. Barnwell, clk. Fresno Co., plans purchasing 2,000 tons gravel graded in size from 2 in. down to sand, delivered f.o.b. Dos Palos.

Round Rock—Los Angeles, Calif.—Los Angeles Co. Flood Control Dist. plans purchasing 8,500 tons No. 1 round rock.

Bids Desired

Wrought Iron Pipe, etc.—Boston, Mass. Oct. 11, by Transit Dept., 1 Beacon St., 1,200 lin.ft. wrought iron pipe and couplings f.o.b. cars 14 Cypher St., South Boston.

Fuel Oil — Boston, Mass. — Oct. 11, by Supply Dept., light and heavy fuel oil to various departments as required. To exceed $5,000. H. S. Frost, supt.

Portland Cement—New York, N. Y.—Oct. 14, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., 4,000 bags portland cement and 250 tons asphaltic cement.

Asphaltic Oil, etc.—New Jersey—Oct. 17, by State Hy. Comm., Trenton, 26,550 gal. Grade HK asphaltic oil, and 2,745 gal. white lead paint. A. L. Grover, secy.; adv. E. N.-R. Oct. 6.

Frogs, Switches, etc.—Phila., Pa.—Oct. 13, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St, West Phila., frogs, switches, etc., Contr. 117.

Gravel — Grenada, Miss. — See "Streets and Roads."

Transformers, Bracket Fixtures, Cable, etc.—Chicago, Ill.—Oct. 10, by Dept. Gas & Electricity, Room 416, City Hall, 4.2 kva. manhole type transformers, aluminum bracket fixtures, pole type series transformers for 1,000 cp. lamps, manhole types for 1,000 cp. lamps, single conductor 600 volt 8-B and S. G. 30% para rubber insulated lead covered, jute covered cable, single conductor 5,000 volt 8-B and S. G. 30% para rubber insulated lead covered flexible steel taped jute covered cable and single conductor 4, 8 and 12 conductor, 5,000 volt 8-B and S. G. 30% para rubber insulated lead covered cable for extending city lighting system.

Lighting Posts and Cable — Cleveland, Okla.—E. C. Mullendale, mayor, and City Council in market 50 "White Way" posts and 8,500 lin.ft. double conductor armored cable.

Pipe—Rotan, Tex.—C. C. Moore, Throckmorton, taking bids 16,000 ft. 1- to 6-in. pipe for natural gas system. Noted Aug. 4

Bids Received

Cement—Tracy, Calif.—W. Schlossman, secy. Banta Carbona Irrigation Dist., Sept. 21, 4,000 bbl. portland cement, from Santa Cruz Portland Cement Co., Crocker Bldg., San Francisco, Yosemite Portland Cement Co., Mills Bldg., San Francisco, Pacific Portland Cement Co., Pacific Bldg., San Francisco, Henry Cowell Lime & Cement Co., 2nd and Market Sts. San Francisco, Calaveras Portland Cement Co., 315 Montgomery St., San Francisco and Tracy Lumber Co., Tracy, at $2.81 per bbl.

See proposal advertising on page 151

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Unit Price Lists Published in September, 1927

		Issue of
Bridge	Harrisburg, Pa.	Sept. 15
Bridge	Los Angeles, Calif.	Sept. 22
Bridge	Chicago, Ill.	Sept. 29
Bridges	Illinois and Missouri.	Sept. 8
Channel Wall	Lockport, Ill.	Sept. 29
Cleaning and Covering Channel	Syracuse, N. Y.	Sept. 29
Flood Control	Los Angeles, Calif.	Sept. 29
Pipe Line	Massachusetts	Sept. 1
Power House	Ponca City, Okla.	Sept. 22
Power Plant	Jacksonville, Fla.	Sept. 15
Road	Wyoming	Sept. 15
Road	Idaho	Sept. 15
Sewage Treatment Works	Chicago, Ill.	Sept. 1
Sewer	Syracuse, N. Y.	Sept. 1
Sewer	Houston, Tex.	Sept. 15
Sewer	New Jersey	Sept. 22
Sewerage System	Granville, N. Y.	Sept. 8
Sidewalk, Curb, Gutter and Road Work	Mt. Ephraim, N. J.	Sept. 1
Street Improvement	San Luis Obispo, Calif.	Sept. 29
Water Mains	Detroit, Mich.	Sept. 8
Reservoir Covers	St. Louis, Mo.	Sept. 29
Road	Houston, Tex.	Sept. 29

Sewers—Laramie, Wyo.

Bids were opened by City, Apr. 12 (lowest three and highest), for installing storm sewers, from (A) A. H. Reed, Cheyenne (awarded contract); (B) Lawrence Constr. Co., Denver; (C) Constr. Serv. Co., Denver; (D) Inman & Crum, Casper. The unit bids are as follows:

	A	B	C	D
9,000 cu.yd. earth excav.	$1.03	$1.40	$1.44	$1.80
6,000 cu.yd. earth excav. outlet ditch.	.18⅓	.15	.18	.27
Rock excavation	4.50	5.00	5.40	6.00
Old sheeting in trench	55.00	35.00	60.00	40.00
New sheeting in trench	75.00	50.00	110.00	65.00
990 lin.ft. 60-in. rein. conc. culvert pipe	13.70	11.56	11.74	14.50
345 lin.ft. 60-in. rein. conc. sewer pipe.	10.50	10.26	10.30	12.00
992 lin.ft. 54-in. rein. conc. sewer pipe.	7.89	8.26	8.32	11.00
910 lin.ft. 36-in. rein. conc. sewer pipe.	3.86	3.99	4.01	6.00
910 lin.ft. 36-in. std. V. C. pipe	....	....	7.50	8.00
640 lin.ft. 12-in. cement conc. pipe	....	....	.75	....
640 lin.ft. 12-in. std. V. C. pipe	1.05	.70	.72	1.20
2 std. brk. man holes	75.00	75.00	85.00	100.00
2 std. conc. man holes	75.00	75.00	85.00	90.00
4 special man holes	100.00	125.00	130.00	240.00
23 std. curb inlets	48.00	60.00	62.00	55.00
15 yd. outlet bulkhead	300.00	225.00	250.00	525.00
990 60-in. culvert pipe dbl. rein.	....	12.70	13.80	....
Total based on conc. manholes and conc. pipe in larger sizes	$41,531	$43,011	$43,845	$56,403

Engineering News-Record, Issue of October 6, 1927.

Bridge—Montana

Bids were opened by State Highway Commission, Butte, July 13, for constructing Sun River Bridge on Ulm-Great Falls Highway, Cascade Co., from (A) McGuire & Blakeslee, Great Falls, (awarded contract); (B) W. P. Roscoe, Billings; (C) Illinois Steel Bridge Co., Spokane, Wash.; (D) Lafferty & Byers, Coeur d'Alene. The unit bids are as follows:

	A	B	C	D
321,000 lb. structural steel	$0.081	$0.08¼	$0.08	$0.086
75,000 lb. reinforcing steel	.08	.07	.07	.07
1,500 lb. bronze plates	.60	.70	.60	.65
480 cu.yd. class "A" concrete	25.80	25.52	28.00	29.00
250 cu.yd. 1:2:3 mix conc. in deck	26.70	27.08	30.20	30.00
415 cu.yd. excav. for foundations	7.00	9.30	8.40	9.00
2,500 lin.ft. piling for foundations	1.10	1.20	1.30	1.20
60 cu.yd. gravel backfill	3.00	3.98	5.00	3.00
Totals	$57,795	$58,900	$59,856	$62,166

Engineering News-Record, Issue of October 6, 1927.

Pipe—Azusa, Calif.

Bids were opened by Azusa Irrigating Co. for furnishing riveted steel pipe of various sizes, from (A) Baker Iron Wks., 912 North Bway.; (B) Lacy Mfg. Co.; (C) Western Pipe & Steel Co.; (D) Los Angeles Mfg. Co.; contractors, all of Los Angeles. The unit bids are as follows:

	A	B	C	D
Schedule A				
54,000 lin.ft. 4-in. riv. steel pipe, 14 ga.	$0.33	$0.34	$0.33	$0.35
32,000 lin.ft. 5-in. riv. steel pipe, 14 ga.	.43	.445	.43	.45
42,000 lin.ft. 6-in. riv. steel pipe, 14 ga.	.50	.51	.55	.53
Schedule B				
10,000 lin.ft. 8-in. riv. steel pipe, 14 ga.	$0.735	$0.75	$0.75	$0.75
7,000 lin.ft. 10-in. riv. steel pipe, 14 ga.	.963	.975	.95	1.01
6,500 lin.ft. 12-in. riv. steel pipe, 14 ga.	1.14	1.16	1.10	1.19
10,000 lin.ft. 18-in. riv. steel pipe, 12 ga.	2.12	2.16	2.20	2.22
Alternative Items				
10,000 lin.ft. 20-in. riv. steel pipe, 12 ga.	$2.42	$2.45	$2.50	$2.16
10,000 lin.ft. 20-in. riv. steel pipe, 10 ga.	2.86	2.90	3.00	2.90
Totals Schedule A	$52,580	$54,020	$54,680	$55,560
Totals Schedule B	42,701	43,465	43,300	44,505

Engineering News-Record, Issue of October 6, 1927.

Sewer—Chicago, Ill.

Bids were opened by Sanitary District of Chicago, July 28, for North Side Intersecting Sewer, Contr. No. 9, from (A) Byrne Bros. Constr. Co., 624 South Michigan Ave., (awarded contract); (B) E. J. Albrecht, 35 South Dearborn St.; (C) Nash Bros., 10 South LaSalle St.; (D) T. J. Forschner Contg. Co., 5201 West Pershing Rd. The unit bids are as follows:

	A	B	C	D
River crossing at Barry Avenue, (lump sum)	$93,000.00	$91,329.00	$109,000.00	$120,800.00
River crossing at Grace Street, (lump sum)	70,000.00	61,778.00	96,900.00	88,100.00
Channel crossing at Bryn Mawr Avenue (lump sum)	10,000.00	20,742.00	25,300.00	27,200.00
Channel crossing at Peterson Avenue (lump sum)	21,500.00	21,207.00	24,000.00	25,000.00
Channel crossing at Devon Avenue (lump sum)	21,900.00	22,277.00	27,100.00	27,900.00
Channel crossing at Touhy Avenue (lump sum)	25,000.00	24,328.00	28,600.00	29,200.00
Channel crossing near Lake Street (lump sum)	30,500.00	30,368.00	34,900.00	35,900.00
Ditch outfall (lump sum)	5,000.00	4,951.00	3,300.00	3,100.00
50,000 lb. reinforcing steel	.08	.08	.08	.06
10 cu.yd. rock excavation	5.00	5.00	5.00	5.00
100 cu.yd. additional earth excav. in tunnel	4.00	4.00	4.00	4.00
100 cu.yd. additional earth excav. in open cut	3.00	3.00	3.00	3.00
100 cu.yd. additional concrete, Class A, in tunnel	17.00	17.00	17.00	17.00
100 cu.yd. additional concrete, Class A, in open cut	14.00	14.00	14.00	14.00
100 cu.yd. additional concrete, Class B	12.00	12.00	12.00	12.00
Totals	$285,950	$286,030	$358,150	$365,250

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UNIT PRICES ***Continued on page 188a***

"We're putting all our trucks on BUDD-MICHELIN Dual Wheels . . . . and saving money"

ANY fleet of 28 dump trucks is likely to be an expensive family. So the Western Gravel Company were hunting economy when they put their first truck on Budd Duals.

And they found it!

"Our first truck on Budd Duals went on the road in June, hauling two six-bag batches to the load—8400 pounds," says C. M. Fitch, president of the company.

"Budd Duals did the work so much better that by August we had seven trucks on them.

"We hope to soon have our entire fleet on Budd Duals, with one-size tires all around. Budd Duals have saved us money."

And Budd Duals will save *you* money, too—*six ways* . . .

(1) GREATER SPEED—more loads per day.

(2) BETTER TRACTION—fewer hold-ups in soft ground.

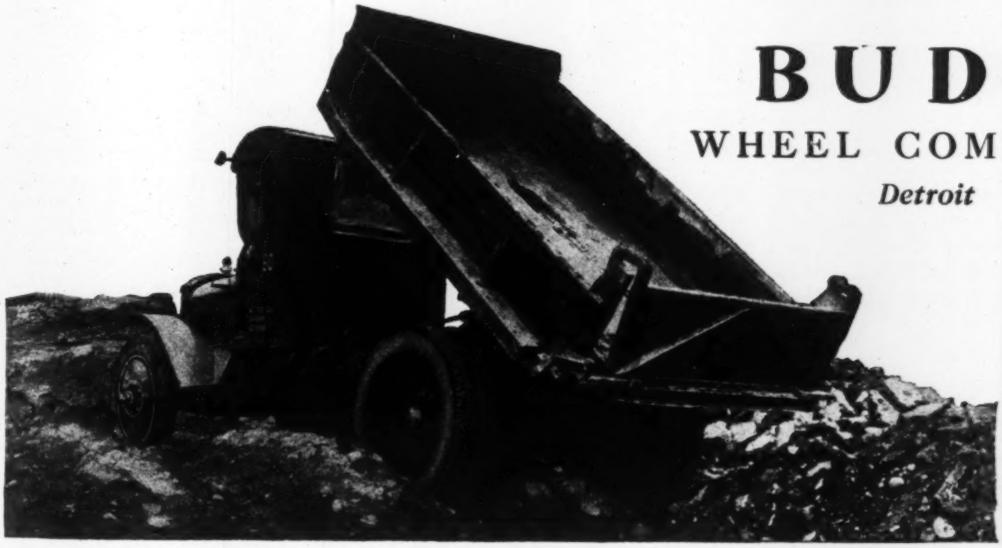
(3) LONGER TRUCK LIFE—thousands of miles of extra service from your trucks.

(4) LOWER REPAIR AND MAINTENANCE COSTS—from 25% to 50% lower.

(5) GREATER TIRE MILEAGE—from 15,000 to 20,000 miles to the set of tires because of positive alignment.

(6) ONE SIZE TIRES—and one size wheels, all interchangeable. One wheel service for the fleet.

If you're running a fleet of dump trucks, this difference in wheels can make a difference in your bids!



BUDD
WHEEL COMPANY
Detroit

YOU GET FROM 15,000 to 20,000 MILES from a set of tires on Budd Wheels—

Because Budd Duals *always* run true as an arrow—

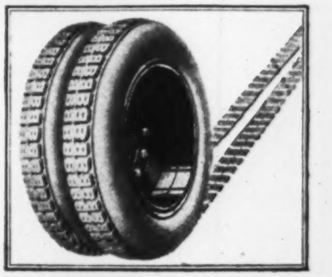
They can't get out of alignment to wobble and shimmy—

They have no demountable rims, no rim clamps—

So you can't get a tire on crooked, because correct mounting is not left to chance and driver.

This positive, *permanent* alignment is made possible by Budd Dual design.

POSITIVE PERMANENT ALIGNMENT



GREATER TIRE MILEAGE

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Wharf—Algiers, La.

Bids were opened by Commissioners of Port of New Orleans, 500 Camp St., New Orleans, Sept. 7, for constructing two 500-ft. lengths of creosoted timber and piling, flat deck wharf, for Todd Dry Dock & Shipyard Co., (lessee) from (A) Hampton Reynolds, Maison Blanche Bldg., (awarded contract); (B) John Reiss, New Orleans Bank Bldg.; (C) W. H. Williams, 821 Howard Ave.; contractors all of New Orleans. The unit bids are as follows:

	A	B	C
I—Piling			
350—100 ft. spliced piles in place	$112.00	$119.00	$112.50
547—85 ft. vertical piles in place	72.00	88.60	91.00
84—85 ft. batter piles in place	122.50	113.95	107.50
127—85 ft. fender piles in place	88.00	90.60	91.00
1,024 cutting off vertical and fender piles	1.00	.65	.60
84 cutting off batter piles	2.00	.65	1.00
987 Pile cut off protection for vertical and batter piles	1.50	.71	1.50
127 pile cut off protection for fender piles	1.50	.95	1.75
II—Timber Construction			
130,300 bd.ft. permanent braces in place on piles per M	139.00	134.45	136.00
29,300 bd.ft. blocks, checks and corbels on piles	163.00	142.70	179.00
60,900 bd.ft. laminated caps in places	124.00	109.00	136.00
19,800 bd.ft. deck stringers in place	125.00	94.30	116.00
68,100 bd.ft. cross ties in place	123.00	94.30	107.00
9,650 nailers over tiles in place	145.00	103.00	97.50
25,400 bd.ft. front wharf log in place	155.00	133.00	151.00
8,530 bd.ft. rear and end wharf logs in place	157.00	105.00	125.00
5,926 bd.ft. mooring bit timbers in place	158.00	109.30	......
30,450 sq.ft. 3 in.x8 in. decking in place	.30	.28	.285
1,009 lin.ft. angle iron headers for decking in place	.44	.29	.35
4 tops, top protection for vertical corbels bolted to piles	18.75	.71	1.50
III—(a) Track construction of 80 lb. rail —1,015 ft. of track	2.25	2.22	2.50
IV—Placing mooring bitts; including furnishing anchor bolts	50.00	7.00	25.00
V—Wharf and changes; moving wharf logs, tangent tracks, decking, recutting piles and caps, etc. (lump sum)	600.00	150.00	275.00
Time to complete (days)	100	150	130
Totals	$ 164,013	$166,593	$172,100

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Sewer—Sacramento, Calif.

Bids were opened by City for constructing Unit No. 4 of sewerage system, from (A) F. P. Bassler, Forum Bldg., (awarded contract); (B) D. McDonald; (C) Municipal Impvt. Co.; (D) R. B. McNair; (E) Fredrickson & Watson; (F) Gould & Pollock. The unit bids are as follows:

	A	B	C	D	E	F
1,994 lin.ft. excav.	$16.50	$17.00	$15.50	$18.00	$15.00	$18.50
1,984 lin.ft. 6x6-ft. precast reinf. conc. sewer	20.00	20.00	23.00	21.00	24.50	20.50
200 cu.yd. conc. type A cradle	9.00	12.00	10.00	12.00	9.50	11.00
1,000 cu.yd. crushed rock	5.00	5.50	5.50	5.00	5.25	5.25
5 manholes	175.00	80.00	100.00	75.00	125.00	90.00
1 junction chamber (lump sum)	500.00	500.00	425.00	365.00	200.00	800.00
Totals	$80,756	$82,378	$84,964	$85,696	$86,243	$86,261

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Road—Wyoming

Bids were opened by State Highway Commission, Cheyenne, June 14 (lowest four and highest) for Constructing F. A. Project No. 138-B, Cheyenne-Pine Bluffs Rd., Laramie Co., from (A) Western Constr. Corp., (awarded contract); (B) Real & Kennedy; (C) J. J. Dooling; (D) Jesse Davis; (E) C. T. Whallen. The unit bids are as follows:

	A	B	C	D	E
225,500 cu.yd earth	$0.18	$0.179	$0.189	$0.19	$0.22
100 cu.yd. loose rock	1.00	.75	1.00	.50	.40
50 cu.yd. solid rock	2.00	.75	.50	1.00	1.00
100 cu.yd. sta. overhaul	.05	.05	.04	.03	.02
2,724 lin. ft. unload and place pipe	.40	.40	.40	.50	1.00
159 lin.ft. Class B conc. endwls.	15.00	25.00	20.00	22.00	27.50
608 cu.yd. snowfence	.80	1.00	.90	1.00	1.10
104,736 lin.ft. moving R/W fence	.01	.02	.02	.02	.03
73,842 lin.ft. R/W fence	.03	.05	.05	.04	.045
Totals	$47,479	$51,404	$52,785	$52,894	$63,272

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Sewer and Settling Tanks—Vineland, N. J.

Bids were opened by Board of Commissioners, Borough Hall, Sept. 13, (lowest four and highest) for constructing trunk sewer and settling tanks, from (A) A. R. Morehouse Co., 315 Market St., Camden, (awarded contract); (B) Louis Marinaro, Morristown; (C) R. F. Relly Contg. Co., Easton, Pa.; (D) P. J. Moran, New Brunswick; (D) The Erection Co. of New York, New York City, The unit bids are as follows:

	A	B	C	D	E
1,060 lin. ft. 22 in. V.T.—0– 6 ft. deep	$3.30	$2.85	$3.98	$3.70	$6.00
1,100 lin. ft. 6– 8 ft.	3.54	3.00	4.33	4.00	8.00
760 lin. ft. 8–10 ft.	3.89	3.50	4.68	4.30	10.00
700 lin. ft. 10–12 ft.	4.10	5.00	5.33	4.70	12.00
60 lin. ft. 12–14 ft.	4.60	10.00	6.14	5.10	14.00
300 lin. ft. 24 in. V.T.—0– 6 ft.	3.71	3.00	4.28	4.25	6.50
1,270 lin. ft. 6– 8 ft.	3.85	4.50	4.63	4.60	8.50
3,420 lin. ft. 8–10 ft.	4.29	5.10	5.00	5.00	10.50
1,560 lin. ft. 10–12 ft.	4.50	5.50	5.53	5.45	13.00
1,020 lin. ft. 12–14 ft.	6.20	7.35	6.34	5.85	14.00
170 lin. ft. 14–16 ft.	7.50	15.00	7.00	7.20	20.00
10 lin. ft. 16–18 ft.	8.84	20.00	8.00	8.50	22.00
32 manholes, 0–8 ft.	75.48	100.00	85.00	80.00	170.00
50 ft. manholes, 8 ft. +	10.00	20.00	10.00	20.00	20.00
20 cu.yd. rock	1.00	1.00	2.00	2.00	20.00
50 cu.yd. concrete, 1-3-5	15.00	16.00	12.00	12.00	18.00
25 cu.yd. extra excavation	1.50	6.00	1.25	1.50	4.00
1 ton cast iron pipe	70.00	75.00	100.00	100.00	160.00
15 M ft. b. m. lumber	80.00	90.00	50.00	80.00	80.00
500 ft. piles	1.00	2.00	1.50	3.00	2.00
500 ft. 5 in. house connections	.70	1.00	.80	1.50	.75
100 ft. 5 in. deep house connections	5.31	2.50	4.50	6.00	.75
Settling tanks (lump sum)	21,873.00	21,500.00	22,372.40	24,000.00	43,000.00
4,000 cu.yd. excavating settling tanks	.90	.85	1.20	1.00	4.00
Totals	$80,723	$89,210	$90,779	$91,568	$188,485

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Constr. News page 188a

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Oil pipe line, Texas, Transcontinental Oil Co. making plans, $8,500,000.

Sewers, Pontiac, Mich., Oakland Co. Drain Comrs. plan, $2,750,000.

Hotel, Cincinnati, O., R. A. Casey Realty Co. having plans prepared, $2,000,000.

College and hospital, Philadelphia, Pa., W. E. Herring soon lets contracts, $2,000,000.

Apartment, Detroit, Mich., Owner, c/o R. Furn, archt., having plans prepared, $1,500,000.

Apartment, Los Angeles, Calif., Lilly-Fletcher Syndicate having preliminary plans prepared, $1,250,000.

High School, Glendale, Calif., Bd. Educ., having plans prepared group of buildings, $1,200,000.

Sugar refinery, North Kansas City, Mo., Corn Products Refining Co. having plans prepared, $1,000,000.

Hospital, home, San Antonio, Tex., Woodmen of the World, Omaha, Neb., have purchased site and plan hospital addition, $1,000,000.

Irrigation, San Antonio, Tex., San Antonio Suburban Irrigated Farms, plans improvements, $1,000,000.

Church, Washington, D. C., Allen & Collins, archts., take bids about Oct. 15, for Universalist Natl. Memorial Church, $1,000,000.

Office, Cincinnati, O., Western & Southern Life Insurance Co. having plans prepared, $1,000,000.

Nurses home and hospital, Waukegan, Ill., H. J. Gaul, archt., soon lets contract $1,000,000.

Bank and office, Pontiac, Mich., Peoples State Bank having plans prepared, $1,000,000.

Contracts Awarded

Hotel and club, Chicago, Ill., Bryn Mawr Beach Building Corp., masonry contract to W. B. Ewer, archts. est. $4,050,000.

Apartment, Chicago, Ill., K. W. Vitzhum & Co., archts., general contract to Callner Constr. Co., archts. est. $2,000,000.

Apartment Hotel, Chicago, Ill., Lowenberg & Lowenberg, associated archts., masonry contract to Adolph Lindstrom Co.; plumbing to H. Litvin, archts. est. $1,500,000.

Paving, Chicago, Ill., Cook Co. Highway Dept. to W. A. Black & Co., A. Ward & Son, Lansing and others. Grand total $1,107,715.

Office, Cincinnati, O., Fountain Square Building Co., to J. and F. Harig, $1,000,000.

News of the Week

Water Works

Proposed Work

Tenn., Crossville—Making plans waterworks. $100,000. Carolina Eng. Co., engrs. Noted Dec. 9.

Minn., Kimball—L. Engel, village clk., plans complete waterworks. $20,000. Engineer not announced.

Kan., Irving — Soon takes bids waterworks improvements. $25,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs. Noted Sept. 29.

Neb., Lawrence—Making plans waterworks. $25,000. Nixon & Reynolds, Grain Exch. Bldg., Omaha, engrs.

Mo., Hamilton—Making plans improving waterworks. $30,000. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, engrs.

Mo., Marceline—Making plans improving waterworks. To exceed $15,000. Black & Veatch, 700 Mutual Bldg., Kansas City, engrs. Noted Sept. 22.

Tex., Amarillo—Plans waterworks improvements, incl. sinking 3 wells and laying 24 in. steel flow pipe from wells to reservoir, on Word Ranch, point 18 mi. southwest of here. $400,000. Wynkoop Kiersted, Interstate Bldg., Kansas City, Mo., engrs.

Tex., Galveston—Making preliminary surveys, etc. 8 or 12 in. mains from here to Pelican Island $25,000. C. A. Holt, city engr.

Tex., Marshall—Making surveys waterworks, incl. mains, new pumping equipment. $50,000. B. F. Meyer, Marshall, engr.

Tex., McAllen—Central Power & Light Co., c/o Frost Bldg., making plans large watermains and fire plugs in various streets. Will probably purchase pipe and plugs and install by day labor. $25,000. Private plans.

Okla., Kingfisher — Making preliminary plans new water supply, incl. impounding reservoir, filter plant, and pumping equipment. $150,000. C. R. Steele, Kingfisher, engr. Noted Jan. 21.

Okla., Eldorado — Voted $91,000 bonds, new waterworks, incl. triplex pumps and motor, 60,000 gal. tank on tower, 39,700 ft. 4- to 8-in. c.i. pipe, etc. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs. Noted June 2.

Okla., Mangum — Making preliminary plans new drilled well water supply. $75,000. E. W. Gantt, 1116 West Main St., Oklahoma City, engrs. Noted July 14.

Okla., Mulhall — Voted $20,000 bonds, complete new water works. F. B. King, Grain Exch., Oklahoma City, engr. Noted Dec. 9.

Colorado—Trustees Pueblo, Water Wks., c/o D. P. Porter, 319 West 4th St., Pueblo, and Comrs. Pueblo Pub. Waterworks 2, c/o S. W. Glasser, 119 East Abriendo Ave., made surveys two retaining reservoirs in Soguache Co., and 4,200 ft. tunnel, 250 cu. ft. per sec. capacity, in Custer Co. $70,000.

Calif., Armona—Making surveys domestic water and fire protection system. $15,000. or more.

Calif., San Rafael — Marin Municipal Water Dist. making surveys filtration plant. $350,000-$500,000. W. F. Langelier, Dept. Sanitary Engineering, engr.

Bids Desired

N. Y., Brooklyn — Oct. 18, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenue T, Debevoise, Greene, Highland, Lyme and Maple Aves., Bleecker, Columbia West, and 14th Sts., etc., here.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.) according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

N. J., Belmar — Oct. 17, by Mayor and Council, Boro Hall, chlorinating tank, pumping station, sea outfall pipe and necessary appliances, etc. C. W. Birdsall, boro engr.; adv. E. N.-R. Oct. 13.

N. J., Denville—Oct. 26, by Twp. Com., C. Lawrence, chn., Town Hall, water supply and distribution system. G. W. Knight, 147 Prospect St., Passaic, consult. engr.; adv. E. N.-R. Oct. 13.

N. J., Skillman — Oct. 31, by C. N. Leathem, state archt., State Bldg., Trenton, 120 ft. steel water tower at Skillman Epileptic Village, here, for Institutions & Agencies, Trenton.

Pa., Phila.—Oct. 18, by Dept. Pub. Wks., Bureau of Water, steam heating systems Belmont Mechanical Filters, Contr. 806; 100,000 lb. pig lead, Contr. 900; Torresdale Pumping Station, Contr. 901; and 300 fire hydrants, etc., Contr. 903. G. H. Biles, dir.

W. Va., Parkersburg—Oct. 26, by City Council, drilling, equipping, testing and placing in operation wells along Ohio River adjacent to pumping station to produce minium yield, incl. that from 3 existing wells of 6 m.g.p.d. Morris Knowles, Inc., 507 Westinghouse Bldg., Pittsburgh, Pa., engrs.

Md., Rock Hall—Oct. 17, by Mayor and Councilmen, c.i. mains, pumping equipment, and steel water tank. Kastenhuber & Anderson, P. O. Drawer R., Easton, engrs.; adv. E. N.-R. Oct. 13.

Ky., Ashland—Nov. 14, by Water Comn. rein.-con. reservoir. Alvord, Burdick & Howson, 1417 Hartford Bldg., Chicago, engrs.; adv. E. N.-R. Oct. 13.

Mo., St. Louis—Nov. 1, by Bd. Pub. Serv. 208 City Hall, low and high pressure electrically and hand operated gate valves $86,000; also two 42 in., two 48 in. and one 54 in. water meters with corresponding venturi tubes, $23,000, for Missouri River Waterworks Station. L. Day, dir.

Tex., San Antonio — Oct. 21, by City Comrs. & Water Bd., 20 m.g. steam turbine-engine, pump and boiler for Market St. Station. $75,000. Address W. D. Masterson, pres, Water Bd. or I. Ewig, city engr.

Contracts Awarded

Ala., Birmingham—Alabama Water Serv. Co., E. Fies, pres., Amer. Trust Bldg., 5 mi. mains, 200,000 gal. reservoir and 100,000 gal. standpipe in Prichard, also 4 mi. mains, 25,000 gal. reservoir, and 60,000 gal. standpipe at Collinsville, etc., to Phenix Eng. Co., subsidiary of owners, $75,000 and $60,000 respectively.

La., Monroe—City Comrs., Town Hall, Sept. 21, buildings and structures for waterworks, to B. E. Buffalve Co., 658 East St., Memphis, Tenn., $217,543; filter equipment, to Roberts Filter Co., Darby, Pa., $29,390; pumping and electrical equipment to Walter Castenedo, Canal-Commercial Bldg., New Orleans, $16,871; cast iron pipe, to U. S. Cast Iron Pipe Co., Amer. Trust Bldg., Birmingham, Ala., $120,991; distribution system, to W. H. O'Toole, Alexander, $39,891; hydrants and valves, to R. D. Wood Co., 400 Chestnut St., Phila., Pa., $11,085; and steel tanks, to J. S. Schofields Sons Co., Bway. St., Macon, Ga., $27,800. Grand total $463,571. Noted Sept. 1.

Tenn., Gainesboro—Waterworks distribution system, to W. L. Hailey & Co., 42nd St., Nashville. Engrs. est. $15,000. Noted Sept. 29.

Mich., Detroit—J. E. Mills, comr. Purchases & Supplies, Marquette Bldg., to R. D. Wood & Co., 400 Chestnut St., Phila., Pa., 20,000 ft. B and S sand spun Class 150-8 in. water pipe at $0.7448 per ft., 28,000 ft. B and S sand spun Class 150 6 in. at $0.519; to U. S. Cast Iron Pipe & Fdry. Co., Pearl St., Burlington, N. J., 2,000 tons 30 in. Class C at $37.50, 2,500 tons 36 in. Class C $37.50, 94,000 ft. 8 in. De Lavaud pipe $0.695, and 96,000 ft. 6 in. De Lavaud

See proposal advertising on page 161

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

"The World's Playground" has used Leadite with complete satisfaction for over 20 years

ATLANTIC CITY, New Jersey, is proud of its well-paved streets. In laying new or additional cast iron mains, the engineers always use Leadite. They know from the experience of nearly one-quarter of a century that Leadite joints are absolutely secure and that the occasion will not arise where paved streets have to be dug up to repair the line.

In addition to the mains under the paved streets, Leadite was used for jointing the 24" main that runs under the famous boardwalk.

Other lines run through salt marshes, over bridges and under numerous railroad tracks.

The sizes of these mains run from 4" to 48".

Mr. L. Van Gilder is Engineer and Superintendent of the Atlantic City water department.

Added to the security and permanence of Leadite joints there is a saving of 75%.

For its economy—permanence—security—and the speed with which jointing can be finished—Water Works men specify and use Leadite.

Laying 24" c. i. water mains, with Leadite Joints, in Atlantic City under paved street.

Specify and use LEADITE —it saves at least 75%

Be sure it is LEADITE and accept no imitations~~~

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

$0.485; to Lynchburg Fdry. Co., Peoples Bank Bldg., Lynchburg, Va., 500 tons 30 in. Class C $37.26, and 500 tons 36 in. Class C $37.26; to National Cast Iron Pipe Co., Tarrant City, Birmingham, Ala., 75,000 ft. 8 in. DeLavaud pipe at $0.695, and 70,000 ft. 6 in. DeLavaud $0.485, to Amer. Cast Iron Pipe Co., Birmingham, 70,000 ft. mono cast 6 in. pipe $0.495 and 75,000 ft. 8 in. mono cast $0.705.

Ill., Glenview—For 6 and 8 in. c.i. mains in various streets, to Widman & Beckham, Milwaukee, Wis., $67,800. Engrs. est. $95,000.

Kan., Buhler—Complete waterworks, distribution and sewerage systems, to C. L. Burt, Hutchinson, $51,463.

Kan., Longton—For 27,155 ft. 2- to 6-in. c.i. pipe, 8,500 lb. specials, 30 gate valves and boxes, 40,000 gal. tank on tower, complete purification plant, etc., to W. B. Carter, Sioux City, Ia., and 1509 East Admiral St., Tulsa, Okla., $39,021; also filter equipment, to E. W. Bacharack & Co., 207 Rialto Bldg., Kansas City, Mo., $5,990.

Tex., Rotan—For 15 mi. watermains and sewerage system, to Orman Constr. Co., Childress, $179,000. Noted Aug. 18.

Colo., Denver—Bd. Water Comrs., 1509 Cleveland Pl., approximately 4,581 ft. 66 in. steel or pre-cast rein.-con. conduit along Clayton St. from 1st Ave. at Capitol Hill Reservoir, to Thompson Mfg. Co., 3001 Larimer St., at $28.15 per ft.

Calif., Riverside—Millar Realty Co., approximately 10 mi. 3- to 8-in. mains and 50,000 gal. red wood tank with 50 ft. tower in Edgement Gardens, to S. Smith, 2025 Bay St., Los Angeles, approximately $75,000.

Sewers

Proposed Work

Conn., Greenwich—Making plans complete sewerage system in Coscob. To exceed $25,000. Private plans.

Conn., Rockville—Plans sewage disposal system. $100,000. C. O. Knight, Rockville, engr.

N. J., Paterson—City appropriated $35,000, storm water drain and reconstructing sanitary sewer in Bridge St. between Bway. and River St., and Arch St. from River St., to Passaic River. H. L. Bristow, clk.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, rejected bids Sept. 28, main sewer in Large St. Will readvertise. G. H. Biles, dir. Noted Sept. 22.

Tenn., Knoxville—Plans 700 ft. 8 x 8 ft. solid rock tunnel to contain 5 ft. concrete, rein.-con. or tile circular sewers in combined storm and sanitary sewer district. $70,000. L. Brownlos, city engr.

Mich., Muskegon Heights (br. Muskegon)—Making plans 6- to 12-in. sewers and ejector station with Duplex 150 gal. shone ejector equipment, Sherman Blvd. and 9th St. $30,000. C. A. Gamble, City Hall, engr. Noted Sept. 15.

Mich., Pontiac — Oakland Co. A. W. Spencer making plans 11 mi. trunk and sub-trunk sewers in Southfield Park, Eight Mile, Nine Mile, Ten Mile, Eleven Mile, and Southfield Rds. near Detroit city limits, emptying into branch Rouge River. $2,750,000.

Neb., Havelock—W. C. Frampton, 409 Little Bldg., Lincoln, making plans 3 mi. 15 and 24 in. sewers and disposal plant in Sanitary Dist. 1, $50,000. Scott & Scott, 427 Bankers Life Bldg., Lincoln, engrs.

Tex., Miami—Making surveys complete sewerage system. $45,000. Devlin Eng. Co., 127 Central Bldg., Amarillo, engrs.

Okla., Ardmore—Made preliminary plans extending 87,100 ft. 8 and 10 in. vitr. clay sewers in Washington, McLish and Oneil Sts. $30,000. S. Mathews, Ardmore, engr.

Okla., Braggs—Made preliminary surveys sewers in 4 mi. various streets. $25,000. E. W. Gantt, 1116 West Main St., Oklahoma City, engr.

Okla., Eldorado — Voted $43,000 bonds, sewerage system, incl. Imhoff tank, etc. Benham Eng. Co., 521 Gumble Bldg., Kansas City, Mo., engrs. Noted May 26.

Okla., Oklahoma City—Making preliminary plans 25,000 ft. 8 to 12 in. concrete sewers in Show Heights and Wallace Heights Additions. $33,800. B. M. Hart, City Hall, engr.

Okla., Olustee—Made preliminary plans sewers throughout city. $30,000. Engineer not selected.

Okla., Tonkawa—Made preliminary plans storm sewerage system in various streets in business section. $45,000. F. H. Kilburn, Tonkawa, engr.

Calif., Gustine—Making plans 2,800 lin.ft. 20 in. sewer in various streets. A. E. Cowell, Merced, engr.

Calif., Oakland—Made plans 3,795 lin.ft. 8 in. vitr. sewer, etc. in Buckeye Ave., etc. G. N. Randle, city engr.

Bids Desired

N. Y., Long Island City—Oct. 20, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Rockaway and Woodhaven Blvds., Skillman, Laurel Hill, Van Alst, Halle, and 107th (Roanoke) Aves., 212th, 138th, 127th, 77th, 64th (10th) Sts., etc.

Md., Baltimore—Oct. 19, by Bd. Awards, storm drains in Dists. 50 and G-13, Storm Water Contr. 103. M. J. Ruark, 311 Courtland St., sewerage engr.

D. C., Wash.—Oct. 18, by District Comrs. 4.063 lin.ft. 12 in. to 4 ft. sewers in various streets.

S. C., Greenville — Oct. 18, by Greater Greenville Sewer Dist. Comn., E. H. Fry, supt., approximately 11,500 ft. 15- to 24-in. sewer from junction recently constructed 18 in. line along Richland Creek and 36 in. line now nearing completion from sewage treatment plant along Reedy River to mouth of Richland Creek, etc., also electrical equipment in sewage treatment plant.

O., Cincinnati—Oct. 18, by C. O. Sherrill, city mgr., City Hall, 1,280 lin.ft. 30 in. sewer in ravine south of Yoast St. between Baltimore Ave. and McHenry Rd., brick $32,550 or concrete $32,550.

Ill., Chicago — Oct. 18, by Bd. Local Impvts., Room 207 City Hall, drains in portions 16 streets and avenues; water service pipes in portions 13 streets and avenues; also sewers in portions 13 streets and avenues. M. J. Faherty, pres.

Tex., Amarillo—Oct. 18, by City, c/o J. D. Bartlett, mgr., 6- to 18-in. vitr. or concrete sewer in San Jacinto, Roberts Pl., Country Club and Old Town additions. $100,000. H. B. Jones, city engr.

Contracts Awarded

Pa., Allentown—At office M. W. Gross, mayor, Central Fire and Police Station, constructing Klines Island Sewage Treatment Plant, Contr. 1, to S. U. Hopkins, 551-5th Ave., New York City. Noted July 21.

Pa., Allentown—M. W. Gross, mayor, pumps for sewage treatment plant, Contr. 2, to Starkweather & Broadhurst, Inc., 79 Milk St., Boston, Mass. Noted Aug. 18.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, main sewers in Hellerman St., to W. H. Yetman, Lincoln Bldg., $112,200; Tabor Ave., to McIntyre Constr. Co., 6811 North Franklin Ave., $8,195; and Tabor Ave., to P. and A. J. Ellis, 4th and Wyoming Sts., $70,171. Grand total $190,566. Noted Sept. 22.

Md., Baltimore—Bd. Awards, sanitary sewers and storm drains in Dists. H-6 and H-13, Sanitary Contr. 245, to N. Martell, 4400 Vesta Ave., $58,814. Noted Sept. 22.

Miss., Magee—Approximately 2 mi. 4- to 8-in. c.i. mains and 8 in. sewers in various streets, to B. E. and V. Walker, Magee, $31,899.

La., Shreveport—W. T. Mayo, comr. Pub. Utilities, City Hall, will construct Sect. 1, South Highlands, Broadmoor, Cedar Grove, and Jewella trunk sanitary sewer, $98,000; Sects. 2 and 3, to R. T. Myers Co., Meridian, Miss., $79,451; also pumps and equipment one at Old River and one at Cedar Grove Pumping Stations, to D. Nicoll Co., Dallas, Tex.; $12,000. Noted Sept. 8.

Tenn., Knoxville—Div. Pub. Serv., 22,000 ft. 8 in. rein.-con. sewer and 900 ft. 10 in. vitr. clay river outfall in Mountain View Sewer Dist., to G. M. Ferris, Knoxville, $38,409. Noted Sept. 22.

Ky., Louisville—Commission of Sewerage of Louisville, Bd. Trade Bldg., 5,800 ft. 5¾ ft. x 5½ ft. semi-eliptical rein.-con. sewers in open ditch, also junction chambers, manholes, etc. in Bohannon Ave., Letting, 28 to S. O. Longley Co., Belspring, Va., $196,400.

O., Canton—Sewer in 2nd Sect. Steelton sub-district north of Mahoning from Schenley to Meridan, to J. Horan, Youngstown, $27,621. Engrs. est. $25,000.

O., Hamilton—G. E. Mitchell, sewer dir., East End Storm Sewer, reinforced monolithic concrete pipe, etc., to Andrews Asphalt Paving Co., Hamilton, $298,600.

Ind., Hammond—Constructing Sewer 66, in 33rd St., to Barnes Bros., Gary, $104,503.

Ind., Indianapolis — Bd. Pub. Wks., Michigan St. Sewer, to Sheehan Constr. Co., 207 Holliday Bldg., $129,832. Engrs. est. $130,807. Noted Aug. 4.

Mich., Clawson — Village and Oakland Co. (Pontiac), for Clawson East Side Drain, 10,000 ft. 60 in. concrete pipe, to R. D. Baker, 1631 Elmhurst Ave., Detroit, $261,985.

Mich., Detroit — Dept. Pub. Wks., concrete or vitr. sewers in Lateral Sewers 4917 and 4914, to Louwers & Somerville, 1224 Michigan Theatre Bldg., $10,400; Lateral Sewers 4811 and 4812, to Liberty Constr. Co., Amer. State Bank Bldg., $26,538; Lateral 4913, to Blanck & Gargaro, 40 Seven Mile Rd. E., $1,495; Laterals 4918 and 4921, to Western Constr. Co., 5123 Wesson Ave., $2,107; Lateral 4919, to F. Di Vito, 516 Transportation Bldg., $7,267; and Lateral 4920, to Detroit Drainage Constr. Co., Meyers Rd., $10,945. Grand total $58,752.

Mich., Detroit—Dept. Pub. Wks., monolithic concrete sewer in Vernor Highway Arm and Goethe Ave. Arm to Blanck & Gargaro Co., 40 Seven Mile Rd. E., $133,926 and $76,437 respectively. Noted Sept. 22.

Mich., Halfway — A. J. Wendt, village clk., sewers in Sewer Dist. 3, Contr. A, to Waterway Constr. Co., 3608 Riopelle St., Detroit, $180,917; Contr. B, to Liberty Constr. Co., Royal Oak, $64,032. Noted Sept. 15.

Mich., Mt. Clemens — Macomb Co., for Martin Drain, monolithic concrete, 1 mi. double box section, 6½ x 8 ft., Sect. A, to Bishop & Weir, 955 East Jefferson Ave., Detroit, $215,720; 8,000 ft. 8 ft. 10 in. x 8 ft., Sect. B, to S. J. Fattore, 1118 Lafayette Bldg., Detroit, $270,194; 13,400 ft. 3 ft. to 6 in. part open cut and part tunnel, Sect. C, to T. D. Nolan, 14101 Plymouth Ave., Detroit, $348,480; and 2 mi. Sect. D, to S. A. Healy, 1007 Amer. State Bank Bldg., Detroit, $363,321. Grand total $1,197,715.

Ill., Glenview—For 8- to 15-in. sewers in various streets, to Widman & Beckman, Milwaukee, Wis., $34,190. Engrs. est. $55,000.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., to Zimmerman & Zimmerman, 3402 Wisconsin Ave., main sewer in Chambers St. $39,001, 15th Ave. $1,410, Griffin St. $5,280, 60th St. $11,826 Gruber Ave. $32,866, and Townsend St. $673; to Wenzel & Henoch, 49th and State Sts., Dickinson St. $32,575, and Vollmer Ave. $240; to M. D. Derroz, 457 Mineral St., 1st Ave. $2,811; to Milwaukee Sewerage & Drainage Co., 928 Humboldt Ave., Roosevelt Dr., $1,157; to W. T. Werner, 675 Hi. Mount Blvd., 62nd St., $2,760; to Rousch & Busse, 918-44th St., 66th St. $7,056, Stevenson St. $4,447, and Sunnyside Dr. $1,267; also to Clayton Constr. Co., 5102 Burleigh St., 63rd St. $166,639. Grand total $310,008.

Kan., Buhler—See "Waterworks."

Mo., St. Joseph—To O. H. Schmidt, Bartlett Bldg., main sewers in 11th and Corby Sts. $12,838, Dist. 23 $321, and Dist. 52 $444; to A. A. Davis & Co., 403 Westover Bldg., Kansas City, Brookdale Relief Sewer, $462,150; to E. F. Mignery, 1108 Bellevue St., Dist. 139 $1,984; to H. Devlin, 308 Felix St., Dist. 30 $674; and to W. B. Kelley, Bartlett Bldg., Dist. 172, $3,346. Grand total $481,657.

Tex., Ft. Worth — Sewers in Brooklyn Heights, to McKenzie Constr. Co., 716 Travis Bldg., San Antonio, $38,317.

Tex., Rotan—Sewerage system, to Orman Constr. Co., Childress, approximately $70,000. Noted Aug. 18.

Calif., Los Angeles—Supervs. Los Angeles Co., sewers in Drainage Dist. Impvt. 21 (Montebello Dist.), to Callahan Constr. Co., 730 Industrial St., $185,954. Noted Sept. 22.

Calif., Santa Ana—Concrete sewers and c.i. mains in Main and West Edinger Sts., etc., to Lana Contg. Co., La Habra, $82,170.

Calif., Santa Cruz—Concrete sewer, etc. in Pilkington Lane, etc., to C. E. Prentiss, San Jose, $30,059.

Bridges

Proposed Work

Tennessee—State Hy. Dept. & Pub. Wks., Nashville, takes bids about Dec. 15, bridge over Clinch River, at Kyles Ford, Hancock Co. $65,000. C. N. Bass, comr.

Tenn., Providence — Montgomery Co. (Clarksville), and State Dept. Highways, Nashville, making surveys concrete bridge over Red River, on State Road 76, near here. $60,000 available. Montgomery Co. and State Hys. & Pub. Wks., Nashville, engrs.

Ill., Galesburg — Bd. Supervs. Road & Bridge Comn., Knox Co., rejected bids Sept. 29, 14 rein.-con. and steel bridge, culverts, etc. $25,000. A. R. Smith, Galesburg, engr.

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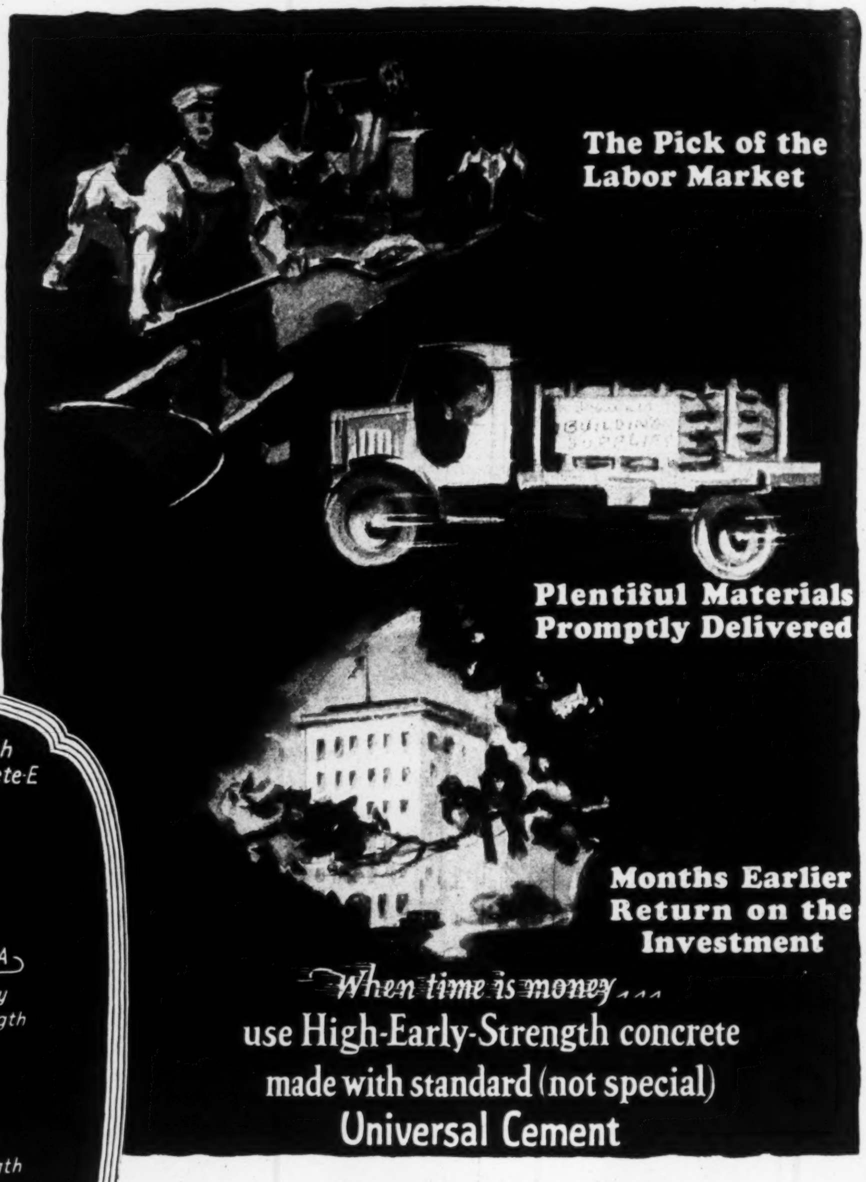
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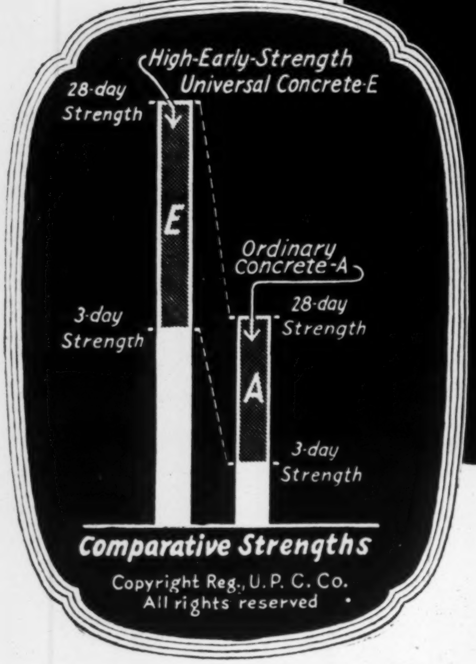

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Bridges—(Continued)

Minnesota and North Dakota—Wilkins Co. (Breckenridge), Minn., Richland Co. (Wahpeton), N. D., and State Hy. Dept., St. Paul, Minn., and Bismarck, N. D., plan replacing present bridge with steel bridge over Bois de Sioux River. $120,000. C. A. Seffers, Breckenridge, aud. Wilkin Co.

Neb., Nebraska City — Otoe Co. plans steel bridge, on Central Ave. $600,000.

South Dakota—See "Streets and Roads."

South Dakota—State Hy. Comn., Pierre, making plans 254 ft. steel through truss bridge over Boxelder Creek, Harding Co. O. N. Hetle, highway engr.

Mo., St. Louis—Wabash Ry. Co., R. H. Howard, ch. engr., Ry. Exch. Bldg., making preliminary plans approximately 100 ft., concrete and steel bridge, on North Bway. $80,000. Private plans.

Ark., Newport—State Hy. Dept., Little Rock, making preliminary plans bridge across White River, here. To exceed $25,000. Harrington, Howard & Ash, Orear Leslie Bldg., Kansas City, Mo., engrs.

Tex., Del Rio—See "Streets and Roads."

Tex., Galveston—Pelican Bridge Co., c/o W. P. Sweeney, pres. Gulf Coast Dredging Co., plans concrete and timber railroad and vehicular bridge. $150,000. Private plans.

Calif., Modesto — Plans bridge over Tuolumne River. $25,000 or more. F. Rossi, city engr.

Bids Desired

N. J., New Brunswick—Oct. 27, by Bd. Freeholders Middlesex Co.; Bridge 190, concrete encased, half-through plate girder, over South River, on South Amboy-Bordentown Rd. W. F. Buchanan, 175 Smith St., Perth Amboy, co. engr.

N. J., Ocean City—Oc.t 28, by Ocean City-Longport Automobile Bridge Co., Ocean City Title & Trust Bldg., bridge over Great Egg Inlet, 60,000 cu.yd. dredged embankment, 10,000 sq.yd. concrete and 8,000 sq. yd. asphalt paving, etc. Harrington, Howard & Ash, 1012 Baltimore Ave., Kansas City, Mo., consult. engrs. Noted Sept. 29.

Pa., Pittsburgh—Oct. 26, at office C. C. McGovern, controller Allegheny Co. , superstructure for 31st Street Bridge 6, over Allegheny River at Penn Ave. and East Ohio St., Contr. 1.

South Carolina — Oct. 25, by State Hy. Dept., Columbia **(F.A.P. means Federal Aid Project and S.P. State Project)**, overhead timber bridge over Sea Board Airline Ry. tracks, on Route 5, F.A.P. 71, York Co.; rein.-con. bridge route 21, F.A.P. 254-B, Greenville Co.; rein.-con. and steel bridge, Kershaw Co.; rein.-con. steel bridge over Savannah River, Route 20, S.P. S-656-B, between McCormick Co. here and Augusta, Ga.; also steel superstructure and flooring on swing span of Santee River Bridge, on Route 40, F.A.P. 39-B, Charleston and Georgetown Counties.

Ala., Mobile—Oct. 17, by Alabama State Docks Comn., W. L. Sibert, chn., creosoted timber and steel viaduct, 18,500 ft. creosoted and untreated piles, 90 tons structural steel, etc.

Michigan — Oct. 27, by E. L. Cowgill, resident engr., Plymouth, Trunk Line Bridge 1 of 50-12-2, Contrs. 1 x 2, two 50 ft. spans, steel deck girder type, 30 ft. roadway, two 5 ft. sidewalks, Macomb Co., for State Hy. Dept., Lansing.

Illinois — Oct. 19, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, widening two 59 ft. span rein.-con. girder bridge on Route 6, Sect. F-1, Cook Co., 75 ft. steel bridge on Route 7, Sect. 4-B-1, Henry Co.; one 50 ft. rein.-con. girder bridge, two 30 ft., two 100 ft. and one 150 ft. span rein.-con. substructures on Route 10, Sect. 36-B, also two 100 ft. and one 150 ft. steel superstructure on Route 10, Sect. 36-C, all Vermilion Co.; one 50 ft. rein.-con. girder and two 26 ft. rein.-con. slab bridges, also three 10 ft. rein.-con. box culverts on Route 72, Sect. 128-B, De Kalb and Kane Counties; two 16 ft., one 20 ft. and one 30 ft. span rein.-con. slab bridges on Route 81, Sect. 102-B, Henry Co.; one 28 ft. and three 35 ft. span, also two 30 ft. span rein.-con. slab and girder bridges on Route 116, Sects. 113-B and 114-B, Livingston Co.; two 28 ft. span rein.-con. slab bridge and one 42 ft. and one 30 ft. span rein.-con. girder bridges on Route 156, Sect. 102-B, Monroe Co., etc. F. T. Sheets, ch. highway engr.

Wisconsin—See "Streets and Roads."

Iowa — Oct. 18, by State Hy. Comn., Ames, two 200 x 20 ft. high truss spans with two 80 x 20 ft. pony truss spans on Federal Aid Project 306, Des Moines and Lee Counties; 5 culverts and 4 culvert extensions on Primary Project 541, Cedar, Scott and Muscatine Counties; one 70 x 20 ft. pony truss and one 20 x 24 ft. concrete slab bridge also 6 culverts on Primary Project 537, Guthrie Co. B. F. White, ch. highway engr.

Oklahoma — Oct. 24, by R. N. Higgins, engr. Beckham Co., Sayre, 3 steel truss bridges on abutments, one 1 span 40 ft. at Erick, 46.3 tons truss steel, 4.6 tons reinforcing, etc. $25,000; one 1 span 50 ft. at Texola, 52.7 tons truss steel, 6.7 tons reinforcing, etc., $27,000; and other 1 span 60 ft. at Doxey, 58.81 tons truss steel, 8.2 tons reinforcing, etc., $30,000.

California—Oct. 24, by State Hy. Dept., Sacramento, 170 ft. open spandrel arch and six 30 ft. girder approach span rein.-con. bridge over Pollards Creek, point 2 mi. north of La Moine, Shasta Co.; four 30 ft. span bridge over Prairie Creek, also one 40 ft. and two 32 ft. span bridge over Los Man Creek, both near Orick, Humboldt Co.; 40 ft. arch rein.-con. culvert with wing walls, approximately 70 ft. long over Cull Creek, 30 ft. arch culvert approximately 90 ft. long over Palomares Creek, and 20 ft. arch culvert, 90 ft. long, over Hollis Creek, all in Alameda Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Bids Received

New York—A. W. Brandt, comr. Highways, Albany, Oct. 7 **(e. e. means engineers estimate)**, from J. J. Finn & Son, Cuyler Ave., Albany, Normanskill Viaduct and approaches, Delaware Ave., Albany, $284,822 e. e. $343,254; from Albany Bridge Constr. Co., 518 Bway., Albany, 100 ft. girder bridge on Repair Contr. 1667, Highway 619, Sammonsville-Johnstown Rd., Fulton Co., $28,842 e. e. $34,194; from S. G. Dodds, 52 Luzerene St., Rochester, 24 ft. concrete bridge on Repair Contr. 1660, Highway 5400-A, Warsaw-Gainesville Rd., Wyoming Co., $11,209, e. e. $15,521, furnishing 4,500 sq.ft. steel sheet piling on Repair Contr. 16668, Highway 8030, Machias-Yorkshire Rd., Cattaraugus Co., $1,710 e. e. $2,300; from Shepard Constr. Serv., Inc., 1711 Spring St., Syracuse, 75 ft. span girder bridge, on Highway 5384, Repair Contr. 1663, Nicholville-Moria Rd., St. Lawrence Co., $27,346 e. e. $35,766, bridges on Repair Contr. 1661, Highway 5076, Malone Moria, Part 3 and Highway 5284, Nicholville-Moria Rd., Franklin Co., $60,589 e. e. $76,640, bridges on Repair Contr. 1662, Highway 5613, Malone-Chateaugay Rd., Franklin Co., $34,840 e. e. $45,435, and 120 ft. truss span bridge on Repair Contr. 1664, Highway 1100, Indian Lake Co. Line Rd., Hamilton Co., $52,936 e. e. $66,716; from Ontario Constr. Co., Rochester, bridges on Repair Contr. 1665, Highway 389, Maple Ridge Part 1, Orlean Co., $11,400 e. e. $15,096; from A. C. Toaspern & Co., Barryville, 120 ft. bridge on Repair Contr. 1658, Highway 1486, Whitney Point Lyle Rd., Broome Co., $106,771 e. e. $138,465. Noted Sept. 22.

Contracts Awarded

Virginia—See "Streets and Roads."

Georgia—State Hy. Dept., East Point, concrete bridge on Thomasville-Pavo Rd., Thomas Co., to Small & Triplett, Chattanooga, Tenn., $83,542. Engrs. est. $90,000.

Florida — State Road Dept., F. A. Hathaway, chn., Tallahassee, 173 ft. bridge over Atlantic Coast Line and Seaboard Air Line R.R. tracks, Project 573-D, Orange Co., to Cox & Bryson Paving Co., Orlando, $27,930; 40 ft. bridge over Helena Run, Project 661-B, Lake Co., to Albinson Co., Bartow, $16,735; 435 ft. bridge over Haines Creek and Trout Run, Project 695-B, Lake Co., to C. F. McKenzie Co., Professional Bldg., Miami, $50,581; 675 ft. bridge between Keystone Heights and Palatka, Project 706, Putnam Co., to Kidd Constr. Co., Masonic Temple Bldg., Jacksonville, $30,752; bridge over Georgia, Southern & Florida R.R. tracks, Project 717, Bradford Co., to Gillespie & North, Green Cove Springs, $4,672; and bascule span bridge, Project 698-B, to Amer. Bascule Bridge Corp., Pensacola. Noted Sept. 15.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, concrete and steel bridge, on State Bridge Project 5-B, Obion Co., to Ferguson Constr. Co., 218 South State St., Rockford, Ill. $214,323. Noted Sept. 15.

Tenn., Savannah—State Dept. Highways & Pub. Wks., Nashville, 3 span, 366 ft. bridge over Tennessee River, Wayne Co., here, and 3 concrete overflow bridges approximately 1,200 ft. long, on Crump-Tennessee River Rd., near here, to C. G. Kershaw Constr. Co., Woodward Bldg., Birmingham, Ala., approximately $500,000 and $250,000 respectively. Noted Feb. 17.

Kentucky—See "Streets and Roads."

O., Cleveland—Cleveland Union Terminal Co., C. L. Bradley, pres., general contract 600 ft. steel, concrete and rein.-con. bridge over Cuyahoga River, on Eagle St., to Spencer, White & Prentis, 1200 Washington Bldg., Detroit, Mich.; 1,200 tons structural steel, to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa. Noted Sept. 15.

O., Hamilton—Butler Co., steel bridge replacing old covered bridge, to Standard Eng. Co., 2463 Bway., Toledo, $38,800.

Ind., Indianapolis—Marion Co., Bridge 835, on Wall St. Pike over Eagle Creek, Wayne Twp., to E. F. Smith, 2050 South Harding St., $27,492; and Bridge 836, on Glens Valley Rd. at Shannons Lake, Perry Twp., to McCullon & McCreary, $2,885. Noted Sept. 15.

Iowa—State Hy. Comn., Ames **(B.P. means Bridge Project, P.P., Primary Project and F.A.P., Federal Aid Project)**, 1 bridge and 25 culverts on U. S. Highway 30, P.P. 30, Boone Co., and 1 bridge on P.P. 6, F.A.P. 253, Marion Co., to Wickes Constr. Co., 1441 Bluff St., Des Moines, $28,333 and $21,400 respectively; 13 culverts and extensions on U. S. Highway 30, F.A.P. 20, Monroe Co., to J. J. Grose, Chariton, $3,799; 4 bridges and 19 culverts on P.P. 113, F.A.P. 249-A, Delaware Co., to A. Olson Constr. Co., Waterloo, $56,538; 1 bridge on P.P. 6, F.A.P. 253, Marion Co., to Snyder & Johnson, Humboldt, $25,457; 29 culverts on same road, to F. E. Shackleton, Perry, $13,815; 45 culverts and extensions on B.P. 538, P.P. 212, Franklin Co., to Waugh & Tackman, Clarksville, $20,400; one 80 x 20 ft. pony truss bridge on B.P. 130, Greene Co., to Lundgren-Reis Co., 65 College St., Des Moines, $11,164; one 40 x 20 ft. I-beam bridge, one 16 x 24 ft. I-beam bridge with wood substructure one 60 x 20 ft. pony truss bridge and 9 culverts on Logan and Woodbine Rds., F.A.B.P. 14, Harrison Co., to G. W. Condon, 415 Farnum St., Omaha, Neb., $17,985; two 80 x 20 ft. span pony truss bridge with two 40 x 20 ft. I-beam approaches in Chester, B.P. 103, Howard Co., to Olson Constr. Co., Waterloo, $23,985; 130 x 20 ft. high truss bridge with two 40 x 20 ft. I-beam approaches in Coggon, F.A.B.P. 230, Linn Co., to P. Jayne, 2201 Mt. Vernon Ave., Cedar Rapids, $23,564; 40 x 24 ft. I-beam bridge with two 32 x 24 ft. approaches near Mapleton, B.P. 48, Monona Co., to Knutson Bros., Chariton, $10,450; 12 culverts and extensions on F.A.B. 20, Monroe Co., to Midwest Constr. Co., Des Moines, $5,275; four 40 x 20 ft. span I-beam bridge with 5 ft. sidewalks on B.P. 214, F.A.P. 303, Tama Co., to A. Melberg, 316 South 19th St., Cedar Rapids, $17,810; five 32 x 24 ft. span I-beam bridge, 160 x 20 ft. high truss bridge with six 40 x 20 ft. I-beam approaches, 50 x 20 ft. paving truss bridge addition, also 2 culverts, on same road, to Wickham Bridge & Pipe Co., 27 South 19th St., Council Bluffs, $53,808. Grand total $333,783. Noted Sept. 15.

Wyoming—See "Streets and Roads."

Mo., Springfield—C. A. Dickerson, city clk., 1,577 ft. rein.-con. viaduct, on Grant Ave., to List & Weatherly Constr. Co., 416 Ry. Exch. Bldg., Kansas City, $192,468. Noted Apr. 21.

Texas—State Hy. Comn., R. S. Sterling, chn., Austin, 1.477 mi. steel and concrete bridge over Neches River, on Highway 43, in Anderson and Cherokee Counties, to Sullivan & Davis, Granger, $93,162, engrs. est. $100,000, and one 150 ft. steel truss and seven 29 timber panel approaches on Highway 2-B, Bell Co., to Austin Bridge Co., 1813 Clarence St., Dallas, $31,417, engrs. est. $32,000. Noted May 12.

Texas—See "Streets and Roads."

Tex., Sherman—See "Streets and Roads."

Dams

Proposed Work

Ia., Ft. Dodge—See "Buildings—Industrial."

Bids Desired

Calif., Los Angeles — Oct. 31, by Los Angeles Co. Flood Control Dist., multiple arch dam on Big Dalton Creek, 26,000 yd. excav., 38,000 yd. concrete, etc.

Railways

Proposed Work

Oklahoma—Chicago, Rock Island & Pacific R.R. Co., La Salle St. Sta., Chicago, Ill., C. A. Morse, ch. engr., making surveys 11 mi. railroad extension from Lima to Bowlegs, here. $300,000.

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Saves Money in Building Sewers

WHEN the engineer specifies INDEPENDENT Reinforced Concrete Pipe for a sewer project, the city is assured a permanent and efficient sewer, *built by the most economical method.*

The city saves money on material and helps local business. "INDEPENDENT" establishes a special pipe plant near the sewer site and uses local labor and materials, wherever possible. Inspection is facilitated, and delays in delivery are avoided.

Time and labor are saved in laying the sewer. The exclusive "Recessed" joint makes it easier to lay the pipe and seal the joints, even under difficult trench conditions. The entire joint is visible for inspection. Back-filling can follow immediately after joints are sealed. Often, *one* machine can do the digging, laying and back-filling.

When finished, the city has a sewer that will serve for generations. The final saving is in the upkeep cost—a long and successful record proves that INDEPENDENT Concrete Pipe Sewers require little or no maintenance.

Every year more American cities are solving their sewer problems, permanently and at low cost, by laying INDEPENDENT Concrete Pipe Sewers. Let us send you estimates and data on *your* sewer projects.

INDEPENDENT CONCRETE
PIPE COMPANY
202 N. West St., Indianapolis, Ind.

Sales Agencies

CHICAGO, ILLS.
Illinois Concrete Sales Co.
139 N. Clark St., Room 703
FRANK NOVOTNY, Mgr.

CLEVELAND, OHIO
H. S. WAMSER
Electric Building
Cleveland, Ohio

COLUMBUS, OHIO
Ohio Sales Agency
297 S. High St., Room 203
E. W. HAWKE, Mgr.

OKLAHOMA, CITY
Concrete Pipe Co. of Okla.
203 Grain Exchange Bldg.
E. A. BARNES, Mgr.

MICHIGAN REP.
M. R. DICKIE
717 Arbor Street
Ann Arbor, Mich.

INDEPENDENT
Reinforced Concrete Pipe

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Tex., Brownsville—Cameron Co. Water Dist. 8, Barreda, c/o O. C. Dancey, co. judge, voted $600,000 bonds, irrigating 23,000 acre tract in Barreda Dist., here. W. O. Washington, Brownsville, co. engr. Noted June 2.

Tex., San Antonio—Making preliminary surveys flood prevention improvement, eliminating bend in San Antonio River between Johnson St. and South Alamo Street bridge. $200,000. S. F. Crecelius, 201 Torcido Dr., engr.

Tex., San Antonio — San Antonio Suburban Irrigated Farms, c/o J. E. Jarrett, pres., Frost Bldg., San Antonio, purchased properties of Medina Irrigation Co., incl. Medina rein.-con. dam, 30 mi. west of here, irrigation system and approximately 75,000 acres land below dam, and plans expending $1,000,000 improvements, incl. cleaning canals, graveling roads through lands and constructing concrete head gates. Private plans.

Calif., Richmond—Voted $690,000 bonds, improving harbor, dredging channel 400 ft. wide, 32 ft. deep, wharf and cargo building, sprinkler system, retaining wall, etc. E. A. Hoffman, city engr.

Calif., Yuba City—State Dept. Pub. Wks., Strub Bldg., Sacramento, made plans pumping plant on east bank Sutter-Butte bypass to drain adjacent lands cut off from drainage by by-pass levees, here. $22,000.

Bids Desired

N. J., Asbury Park—Oct. 18, by Asbury Park Comrs., repairing breakwater jetty near Deal Lake, and constructing new stone and timber jetty, foot of 6th Ave. Sincerbeaux, Moore & Shinn, Asbury Park, engrs. Noted Sept. 1.

Fla., Sanford—Nov. 1, by Supervs. Slavia Drainage Dist., Seminole Co., at office P. B. Smith, secy., drainage system, incl. 5 mi. canal and lateral ditches, 141,500 cu.yd. excav. F. T. Williams, Sanford, ch. engr.

Illinois—Nov. 2, at office Dept. Purchases & Constr., Div. Waterways, Springfield, certain miter lock gates, anchorages, head gates, etc., at Starved Rock lock and dam, Contr. 7. M. G. Barnes, ch. engr.; adv. E. N.-R. Oct. 13. Noted Feb. 24.

Okla., Pauls Valley—Oct. 17, by W. J. Harris, city clk., draining and straightening Rush Creek from Emma Ave. to Washita River, 130,000 cu.yd. dry earth excav., 3.2 tons reinforcing, etc. $30,000. H. Harris, Pauls Valley, engr. Noted March 4.

Bids Received

N. Y., Brooklyn — M. Cosgrove, comr. Docks, Pier "A," foot Battery Pl., New York City, from United Dredging Co., Woolworth Bldg., New York City, dredging 5,000,000 cu.yd. in Jamaica Bay, at $0.0844 per cu.yd., 750 cu.yd. filling sand dikes at $0.75, and 125,000 ft. dredging Canarsie Pier, $0.50. Noted Aug. 18.

Contracts Awarded

N. Y., Syracuse — Bd. Contr. & Supply, City Hall, covering Harbor Brook between Richmond Ave. and State Fair Blvd., to J. H. Corbett, Jr., S. A. & K. Bldg., $70,998. Noted Aug. 25.

Mich., Detroit — Dept. Parks & Blvds., Marquette Bldg., concrete retaining wall on wood piling at Memorial Park and Detroit River, to Candler Dock & Dredge Co., 8145 Medina Ave., $41,849.

Tex., Port Arthur—City, c/o J. P. Logan, mayor, revetment work (shell) along north side canal bank, and north approach to pleasure pier, to J. A. Lindstrom, Port Arthur, at $2.12 per yd., total approximately $34,000.

Calif., Grass Valley—Nevada Irrigation Dist., Deer Creek and Combie Diversion Dams, to Morrison & Knudsen, 319 Bway., Boise, Idaho, $308,570 and $154,270 respectively; cement, to W. B. Celio, Grass Valley, $74,256; steel, to E. Soule Co., Rialto Bldg., San Francisco, $3,583. Grand total $540,679. Noted Aug. 11.

Que., Roberval — S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., reconstructing breakwater, here, to C. Gagnon, Jonquiere. Noted Sept. 15.

Streets and Roads

Proposed Work

Mass., Medford (br. Boston)—Dept. Pub. Wks., Boston, making plans concrete paving with macadam shoulders along Middlesex Turnpike, here. To exceed $25,000. City appropriated $20,000 toward cost, balance to be paid by Middlesex Co. and State.

Tennessee—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, plans surfacing (probably concrete) 20 mi. Huntingdon-Jackson Rd., Carroll Co., improving 20 mi. Dover-Tennessee River Rd. Stewart Co., and 6 mi. Caswell-Granger Co. line Rd., Knox Co. C. N. Bass, highway comr.

Tennessee—Dept. Highways & Pub. Wks., Nashville, plans constructing 12 mi. North Carolina state line-Marysville Rd., Brount Co. $200,000. C. N. Bass, comr. Work will probably be done by day labor.

Tenn., Dunlap—Sequatchre Co. and Dept. Highways & Pub. Wks., Nashville, plan constructing 4 mi. Dunlap-Marion Co. Line Rd. C. N. Bass, Nashville, comr.

Tenn., Dyersburg—State Hy. Dept. Hys. & Pub. Wks., Nashville, takes bids about Dec. 16, concrete paving, etc., approximately 15 mi. road from Dyersburg to Mississippi River, Dyer Co. Noted June 23.

Tenn., Henderson—Chester Co. and Dept. Highways & Pub. Wks., Nashville, making surveys improving State Rd. 5 from Henderson to Madison Co. line. To exceed $25,000.

Tenn., Huntington — Carroll Co. voted $600,000 bonds, improving various roads.

Tenn., Paris — Henry Co. making preliminary plans constructing 20 mi. Paris Big Sandy Rd. Henry Co. and State Dept. Hys. & Pub. Wks., Paris, engrs.

O., Zanesville — Muskingum Co. soon takes bids hardsurfacing 3 mi. Newark Rd., 18 ft. $100,000. A. T. Comar, Zanesville, engr.

Mich., Muskegon—Making plans grading and 5- to 7-in. concrete paving 4,450 sq.yd. H-37B, North Sunset Circle, and widening Pere Marquette Park, $14,000; 6 in. concrete paving 5,060 sq.yd. H-80, Catawba Ave. $16,500, 6,000 sq.yd. H-108, Allen Ave. $19,500, 912 sq.yd. H-133, Grand Ave. $2,900, 12,800 sq.yd. H-156, Park St. $41,600, 3,330 sq.yd. H-172 Forest Ave. $10,800, 2,400 sq.yd. H-174, McGraft Pk. Rd. $5,000, and 24,750 sq.yd. 9- 7- 9-in. H-212, Laketon Ave. $80,500; concrete curbing, guttering and 2½ in. sheet asphalt on 6 in. concrete or stone paving 9.044 sq.yd. H-69, Davis St. $30,700, and 5,280 sq.yd. H-219, Clay Ave. $18,500; sheet asphalt and concrete paving 400 ft. H-190, Concord Ave. $4,200, and 7,154 sq.yd. H-154, Sanford St. $25,000. H. J. Lewis, City Hall, engr.

Mich., Detroit—Making plans stone curbing and 3½ in. sheet asphalt on concrete paving 45,000 sq.yd. Detroit St. and 9 avenues, $177,270. P. A. Fellows, City Hall, engr.

Mich., Detroit — Making plans stone curbing and 3½ in. sheet asphalt on 8 in. concrete paving 21,100 sq.ft. Edsel and Endicott Aves. $90,190. P. A. Fellows, City Hall, engr.

Ia., Iowa City—Making plans 2½ and 3 in. brick, sheet asphalt or concrete paving 30 blocks various streets. F. E. Young, city engr.

Ia., Northwood — Making preliminary plans grading, curbing and 6 in. concrete paving approximately 77,000 sq.yd. Central Ave., 2nd Ave. N., 1st Ave. N., and 1st Ave. S., etc. Brown & Cook, 108 North Market St., Ottumwa, engrs.

Minn., Minneapolis—A. P. Erickson, aud. Hennepin Co., plans concrete paving, etc. East River Rd. between Anoka cut-off Highway at Coon Creek and city limits, 27 ft. $400,000. E. E. Terrell, Court House, co. highway engr.

Minn., New Ulm—Takes bids in spring alternate types paving approximately 65,000 sq.yd. various streets. $175,000. F. D. Minium, city engr.

Kan., Kansas City—Wyndotte Co. soon takes bids concrete paving 0.553 mi. Federal Aid Project 321, Sect. C, 18 ft. To exceed $25,000. O. K. Williamson, Kansas City, co. engr.

Kan., Linn—Soon takes bids curbing, guttering and paving, etc. 30 blocks various streets. $25,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs.

Neb., Omaha—Plans widening 20th St. between Leavenworth and Dodge Sts. $733,000. H. Beal, City Hall, engr.

Neb., Wahoo—Making preliminary plans concrete, asphalt or brick paving, etc. 15,000 sq.yd. streets in Paving Dist. 9. Bruce & Grupe, Bankers Reserve Life Bldg., Omaha, engrs.

South Dakota—State Hy. Comn., Pierre **(S.P. means State Project and F.A.P. Federal Aid Project)** plans grading 13.89 mi. F.A.P. 181 E Potter Co.; 18.96 mi. S.P. 143, Sully Co.; 160, 130 cu.yd. F.A.P. 218-A Jackson Co.; 61,440 cu.yd. F.A.P. 216-A Brown Co.; 144,931 cu.yd. F.A.P. 219-A, Walworth Co. and 45,000 cu.yd. F.A.P. 228-A Potter Co.; graveling 22,700 cu.yd. F.A.P. 215-A, 18,700 cu.yd. F.A.P. 215-B, and 21,000 cu.yd. F.A.P. 215-C, Stanley Co.; 10,000 cu.yd. F.A.P. 215-D Haakon Co.; 16,400 cu.yd. F.A.P. 95-D, Faulk Co., and approximately 9,000 cu.yd. F.A.P. 181 A, B, and C, Dewey and Potter Counties; also concrete and steel bridge on S.A.P. 143, Sully Co., and F.A.P. 219-B, Walworth Co. O. N. Hetle, state highway engr.

South Dakota—State Hy. Comn., Pierre, making plans improving 2.66 mi. Federal Aid Project 223, Roberts Co., 2,495 cu.yd. rock and 34,576 cu.yd. earth excav., 72,176 cu.yd. overhaul, 6,575 sq.yd. willow matting, 21,382 lb. steel, etc. O. N. Hetle, highway engr.

Mo., Joplin — Soon takes bids asphaltic concrete paving, etc. 2,750 sq.yd. 5th St., 12,700 sq.yd. Connor Ave., 4,100 sq.yd. Picher Ave., 6,000 sq.yd. 1st St., and 12,700 sq.yd. C St.; concrete paving 6,700 sq.yd. Sergeant St., 11 blocks Wall Ave., and 3 blocks Murphy Ave.; also warrenite bitulithic paving, etc., 4 blocks Wall Ave. S. P. Ashcraft, Jr., city engr.

Texas—State Hy. Dept., Austin, making plans grading and bridging 12.321 mi. Highway 28, from Mottley Co. line to Paducah, in Cottle Co. $65,000, Nagel, Witt, Rollins & Gilchrist, Allen Bldg., Dallas, engrs.; concrete paving 5 mi. Highway 28 from Oklauneon to Red River, Wilbarger Co., $152,828, J. B. Nabors, Vernon, engr., and 17.27 mi. Highway 45, Walker Co., $480,000, D. K. Caldwell, Huntsville, engr.; Iron or gravel surfacing 5.643 mi. Highway 8, Federal Aid Project 457-A, Unit 2, $30,000, and 7.44 mi. Highway 8 from point 7 mi. northeast of Linden to Linden, $40,000, both in Cass Co., S. B. Jones, Linden, resident engr., all 18 ft. wide.

Tex., Albany—Shackelford Co., making plans hardsurfacing approximately 6 mi. highway from Jones Co. line to intersection with Highway 1, point 8 mi. west of here, $200,000, State appropriated $150,000 towards cost; 2½ mi. bituminous macadam on waterbound macadam and 5 in. caliche surfacing approximately 9 mi. highway from present pavement to point 8.2 mi. west of here, 18 ft. $235,000. J. E. Pirie, Albany, co. engr.

Tex., Alice—Made plans paving various streets. $75,000. Address F. W. Hobbs, Alice, mayor.

Tex., Cuero—De Witt Co. making plans 2 in. asphalt on 8 in. gravel paving approximately 11 mi. highway from Victoria Co. line to here. $170,000. State appropriated $61,000 toward cost. Address W. H. Koether, Cuero, co. engr.

Tex., Del Rio — Val Verde Co. making preliminary plans grading and bridging 5.68 mi. Highway 3 from Langtry to Shumla. $65,000. Address W. F. Littleton, Del Rio, co. judge.

Tex., Galveston—Takes bids after Oct. 15, paving 10 blocks Ave. F from 16th to 25th Sts., $60,000; and 5 blocks Ave. O from 40th to 45th Sts., $35,000. C. A. Holt, Galveston, engr.

Tex., Hamilton—Hamilton Co. making preliminary plans grading and gravel surfacing 18 mi. Highway 108 from Hamilton to Avant. $25,000. Address P. M. Rice, Hamilton, co. judge.

Tex., Junction—Kimble Co. voted $50,000 bonds, grading and surfacing 11 mi. highway leading out of Spanish trail east of Junction to Harper, in Precinct 4. State appropriates $50,000 toward cost. Address County Judge, Junction.

Tex., Marlin — Falls Co. making preliminary plans gravel and 3 in. bituminous macadam surfacing 7.63 mi. Highway 108. $171,721. State appropriates $71,721 towards cost. V. B. Harris, Rosebud, engr.

Tex., San Antonio—See "Unclassified."

Oklahoma—State Hy. Comn., Oklahoma City, making preliminary plans grading, etc. 10 mi. State Rd. 37, between Pauls Valley and Lindsay, Garvin Co., 30 ft. $45,000. C. R. Mandigo, Capitol, Oklahoma City, highway engr.

Oklahoma—State Hy. Comn., Oklahoma City, making preliminary plans grading, etc., 8 mi. State Rd. 13, Pawnee Co., 30 ft. $65,000. C. R. Mandigo, Capitol, Oklahoma City, engr.

Okla., Durant — Making plans grading, curbing and 6 in. concrete paving 15,100

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INDUSTRIAL BROWNHOIST

BROWNHOIST

announce

the merger of the two largest and oldest locomotive crane manufacturers in the country, Industrial Works of Bay City, Michigan, and The Brown Hoisting Machinery Company of Cleveland, Ohio.

Building by far the most complete line of similar equipment ever manufactured by one company, this merger offers you unequalled economies in the handling of your materials.

General offices will be located at Cleveland, Ohio, and the corporation known as

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INDUSTRIAL BROWNHOIST

Streets and Roads (Continued)

sq.yd. Beech and Poplar Sts. $47,600. L. V. Stinson, Durant, engr.

Okla., Oklahoma City — Making plans grading, curbing, and sheet asphalt paving 5,100 sq.yd. 23rd St. $26,000. B. M. Hart, City Hall, engr.

Okla., Pawhuska — Comrs. Osage Co. making preliminary plans grading and paving 8 mi. Belford-Fairfax Rd., 30 ft. $75,000. W. N. Clark, Pawhuska, engr.

Okla., Sayre—Beckham Co. voted $760,000 bonds, improving 118 mi. primary road system. C. R. Mandigo, Capitol, Oklahoma City, engr. Noted Mar. 24.

Okla., Wewoka—Making plans grading, curbing and 6 in. concrete paving 14,600 sq.yd. South Hitchite and Ochese Sts. $47,750. Long & Co., 1300 Colcord Bldg., Oklahoma City, engr.

Calif., Burbank — Plans 4 in. asphaltic concrete and 1½ in. on 3½ in. asphaltic concrete paving, etc., Keystone St. and Burbank Blvd., etc. $25,000 or more.

Calif., Hawthorne—Plans grading, curbing, walks and asphaltic concrete paving, etc. Maryland Ave. between Inglewood and Hawthorne Aves., etc. $25,000 or more.

Calif., Huntington Park—Plans curbing, guttering, walks and asphaltic concrete paving, etc., Rugby Ave., etc. $25,000 or more.

Calif., Los Angeles — Made plans 6 in. concrete paving 272,505 sq.ft. and 7 in. concrete paving 62,242 sq.ft., etc., Woodrow Wilson Dr. (Hollywood Park Impvt. Dist.). J. C. Shaw, City Hall, engr.

Calif., Los Angeles—Plans concrete and asphaltic concrete paving, etc. San Fernando Rd. between Fox St. and Burles Ave., etc.; also grading, curbing, walks, guttering and asphalt paving, etc. Verdugo Rd. between Ave. 35 and Hilda Ave., etc. To exceed $25,000 each. J. C. Shaw, City Hall, engr.

Calif., Los Angeles—Plans grading, ornamental lighting system, Willite asphalt paving, etc. Mott St. between Whittier Blvd. and Wabash Ave. To exceed $25,000. J. C. Shaw, City Hall, engr.

Calif., Merced—Merced Co. plans curbing, guttering, walks and 4 in. Willite asphaltic concrete paving, etc. roads in Ragsdale Subdivision. To exceed $85,000. W. E. Bedesen, Shaffer Bldg., Merced, engr.

Calif., San Diego—Common Council plans grading, curbing, guttering, walks and 6 in. asphaltic concrete paving, etc. 102,900 sq.ft. Rosecrans and Shadowlawn Sts., etc. R. A. Floyd, supt. work.

Calif., San Diego—Common Council plans grading, curbing, walks and 6 in. asphaltic concrete paving 101,262 sq.ft. Works Ave., also 470,995 sq.ft. Madison and Cherokee Aves. H. W. Jorgensen city engr.

Calif., San Diego — Common Council, plans curbing, walks and 6 in. concrete paving, etc. 289,261 sq.ft. Kearny Ave. H. W. Jorgensen, city engr.

Calif., San Diego—San Diego Co. plans grading, curbing, walks and 6 in. concrete paving, etc. 374,854 sq.ft. Division St., Euclid and Logan Aves. P. R. Watson, Spreckels Bldg., supt. work.

Calif., Santa Barbara—Plans walks and asphaltic concrete paving, etc. Voluntario St., etc. $25,000 or more.

Bids Desired

Massachusetts — Oct. 18, by Dept. Pub. Wks., Boston, bituminous macadam paving 22,213 ft. highway in Weymouth; and 18,154 ft. in East Bridgewater and Whitman, 18 ft. W. F. Williams, comr.

N. Y., Long Island City—Oct. 19, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, etc. Brinkerhoff Ave. and 109th (43rd) St.; grading and sheet asphalt on concrete paving 126th, 104th (47th), Wayne, 77th, 100th (43rd), 106th, and 115th Sts., Jefferson, 95th, 91st and Woolsey Aves., etc.

Pa., Pittsburgh—Oct. 26, at office C. C. McGovern, controller Allegheny Co., asphaltic concrete paving, etc. approximately 11,250 ft. Duncan Ave. Extension, 16 ft.

N. J., Newark—Oct. 19, at office T. L. Raymond, dir. Dept. Pub. Affairs, City Hall, grading, curbing and asphalt repaving, Commerce St. from Commercial to Market Streets, and an unnamed street from Marsh St. north to South Dock; also asphalt resurfacing Seymour Ave., from Clinton to Avon Aves.

Virginia—Oct. 18, by State Hy. Comn., Richmond, concrete surfacing 2.2 mi. S-156-B; bituminous macadam surfacing 0.64 mi. S-497-C; and 8 cluster piles in Rappahannock River (50,000 lin.ft. total), on S-409-B.

W. Va., Buckhannon—Oct. 15, by City, H. R. Gay, mayor, concrete, brick or sheet asphalt repaving 5,100 sq.yd. Main St.; also "White Way" lighting system and traffic control signals.

South Carolina — Oct. 25, by State Hy. Dept., Columbia **(F.A.P. means Federal Aid Project and S.P. State Project)**, concrete paving 10 mi. Route 24, F.A.P. 26 in Saluda Co., 9.4 mi. Route 2, F.A.P. 152 reopened and 279, 12.8 mi. Route 2, F.A.P. 159, reopened and 122 reopened and 282 Dorchester Counties, 7.8 mi. route 30 F.A.P. 208-B, reopened and 211-A reopened in Colleton Co., and 9.6 mi. Routes 9 and 11, S.P. S-647-A, and F.A.P. 207-B, Union Co.; asphaltic concrete surfacing 10.6 mi. Route 26, F.A.P. 46 reopened and S.P. S-611-B Kershaw Co., 3.3 mi. Routes 19 and 24, F.A.P. 258-D, Sect. 1, Contr. 2, and S.P. S-569 reopened Sect. 1, Saluda Co., 11.5 mi. U. S. Route 1, F.A.P. 266, Contr. 2, Kershaw Co., and 7.9 mi. Route 21, F.A.P. 195-A, and 18 reopened Greenwood Co., and also top soiling 6.6 mi. Route 10 S.P. S-663-A, Spartanburg Co.

Ala., Birmingham — Nov. 1, by City Comn., 2 in. asphalt on 5 in. concrete paving, etc., 2 blocks 17th Ave. $9,750, and 2 blocks 4th Ave. $12,150; curbing, guttering, walks and 2 in. asphalt on 5 in. concrete paving 1 block 16th Way S. W., $4,275; 2½ in. asphalt on compressed slag paving 3 blocks 2nd Ave. $10,750, and 2 blocks 1st Ave. S. $12,650; 2½ in. asphalt on 6 in. concrete paving 3 blocks Coosa St. $19,350, all foregoing 30 ft., also 6 in. concrete paving 1 block 6th Court, 26 ft. $4,500. A. J. Hawkins, city engr.

Ala., Jasper—Oct. 17, by City, 17,000 cu. yd. stone on Nauroo and Russellville Rd. E. W. Long, Jasper, judge.

La., New Orleans—Nov. 2, by W. T. Hall, acting comr. Pub. Finance, grading, curbing and paving 23 mi. various streets. $1,500,000. B. Vallas, City Hall, engr.

La., New Orleans—Nov. 3, by W. T. Hall, acting comr. Pub. Finance, temporary gravel sand and clay surfacing 21 mi. various streets. $500,000. B. Vallas, City Hall, engr.

Michigan—Oct. 17, by E. R. Benkert, resident engr., Port Huron, concrete paving, etc. 50,096 sq.yd. Project M 077-29, Contr. 1 (T.L.13), St. Clair Co., for State Hy. Dept., Lansing.

Michigan—Oct. 20, by A. R. Schaefer, resident engr., Newberry, concrete paving or bituminous macadam surfacing 2.982 mi. Project F049-8, Contr. 1 (F.A. 143-B), 20 ft., Huron Co., for State Hy. Dept., Lansing.

Michigan—Oct. 21, at office Division Engineer, Escanaba, grading 3.292 mi. Federal Aid Rd. F055-9, Contr. 1, Menominee Co., for State Hy. Dept., Lansing. G. D. Tramp, Crystal Falls, resident engr. Noted Sept. 29.

Michigan—Oct. 24, by E. R. Benkert, resident engr., Port Huron, concrete or bituminous macadam surfacing 34,812 sq.yd. LL. 83, Project M 032-27, Contr. Huron Co., 20 ft., for State Hy. Dept., Lansing.

Illinois — Oct. 19, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete, vitr. brick or bituminous concrete paving, etc. 4.25 mi. Route 14, Sect. 11 and 4.5 mi. Route 14, Sect. 12, both White Co., 5.61 mi. Route 72, Sect. 128 De Kalb and Kane Counties, 4.97 mi. Route 81, Sect. 101 Henry Co., 7.13 mi. Route 116, Sect. 113, and 6.86 mi. Route 116, Sect. 114, both Livingston Co.; grading, paving, guttering, etc. 0.21 mi. bridge approaches on Route 18, Sect. 13-E, Kendall Co.; grading, etc. 1.26 mi. Route 10, Sect. 36-A, Vermilion Co., 0.3 mi. Route 13, Sect. 28-V-1, St. Clair Co., 4.53 mi. Route 81, Sect. 102-A, Henry Co., and 4.37 mi. Route 136, Sect. 102-A Monroe Co. F. T. Sheets, highway engr.

Wisconsin—Oct. 20, by State Hy. Comn. and A. Weishapple, comr. Pepin Co., 213 South Barstow St., Eau Claire, shale surfacing, etc., 6,175 cu.yd. Durland-Ellsworth Rd., State Project 5926; also constructing Miles, Buchanan, Barron and Bauer Bridges. W. F. Baumgartner, div. engr.

Iowa — Oct. 18, by State Hy. Comn., Ames **(P.P. means Primary Project and F.A.P. Federal Aid Project)**, grading, paving, etc. 85,090 sq.yd. P.P. 114-C Cedar Co., 128,027 sq.yd. P.P. 31 Clarke Co., 263,839 sq.yd. P.P. 553 Fayette Co., 94,357 sq.yd. F.A.P. 51, and 98,367 sq.yd. F.A.P. 56 Henry Co., 261,292 sq.yd. F.A.P. 86, Jones Co., 145,886 sq.yd. P.P. 551 Lucas Co., 172,947 sq.yd. P.P. 554 Monroe Co., and 85,647 sq.yd. P.P.555-A, Worth Co.; gravel surfacing 5.26 mi. P.P. 470, and 3 mi. F.A.P. 258, Benton Co., 14.02 mi. F.A.P. 213 Cedar Co., 7.85 mi. P.P. 457 Cherokee, Ida and Woodbury Counties, 3.2 mi. P.P. 451 Crawford Co., and 8.56 mi. P.P. 309 Tama Co.; grading, etc. 5.45 mi. P.P. 30 Boone Co.; 0.3 mi. bridge fill, F.A.P. 76, and 3,177 cu.yd. F.A.P. 177, Chickasaw Co. R. F. White, ch. highway engr.

Nebraska — Oct. 19, by R. L. Cochran, state highway engr., Lincoln, grading, bridging, 1.5 in. sand graveling, etc. 55,500 sq.yd. Barnston-West Project 607, Gage Co., for State Hy. Comn., Lincoln. $40,000.

Nebraska — Oct. 28, by R. L. Cochran, state highway engr., Lincoln, graveling, etc. 12 mi. Federal Aid Project 340-A, Harlan Co., $45,000; also grading, bridging, etc. 30,000 cu.yd. Federal Aid Project 310-A, Greeley Co. $30,000, for State Hy. Comn., Lincoln.

Tex., San Benito—Oct. 26, by A. Tamn, engr., San Benito, alternate types paving 16 blocks Arlington Ave., Palm Blvd., East Resaca Dr. and on Line 3 Roadway, extension of East Resca Dr., 45 ft., for City, $50,000.

Colorado—Oct. 17, by State Hy. Dept., Denver, gravel surfacing 3,160 cu.yd. highway 6, Federal Aid Project 258-E, Constr. Div. 2, Montrose Co. L. D. Blauvelt, State Office Bldg., Denver, engr.

Calif., San Diego—Oct. 24, by Common Council, grading, curbing, guttering, walks and 6 in. asphaltic concrete paving, etc., 438,717 sq.ft. El Cajon Ave., etc.; and 355,413 sq.ft. Chatsworth Blvd., etc. H. W. Jorgensen, city engr. Noted Sept. 22.

Calif., San Francisco—Bd. Pub. Wks., taking bids curbing, guttering, widening and paving, etc. San Jose Ave. To exceed $32,000. M. M. O'Shaughnessy, city engr.

Bids Received

Maine—State Hy. Comn., Augusta, Sept. 26, graveling, etc. 3 mi. highway in East Millinocket, and 2.48 mi. in Connor, from McCabe & Giovannine, 20 Central St., Boston, Mass., $42,208 and $33,623 respectively; 1 mi. in Madawaska, from P. A. Cyr & T. Soucy, Grande Isle, $30,267; 4.61 mi. in Embden-Solon, from I. J. Murphy, 12 Westford Rd., Somerville, $50,703; and 1.67 mi. in Island Falls, from Litchfield & Douglas, Brunswick, $23,090. Noted Sept. 22.

Mass., Dorchester (sta. Boston)—Dept. Pub. Wks., Boston, Sept. 28, recut granite block paving Freeport St., here, from S. J. Tomasello, 11 Cushing Terrace, $26,846.

New York—A. W. Brandt, comr. Highways, Albany, Oct. 7, **(e.e. means engineers estimate)** concrete repaving 9.12 mi. Repair Contr. 1657, Highway 1246, Friendship-Bolivar Rd., Part 2, Highway 1322, Geneseo-Portville Rd., Allegany Co., and 6.31 mi. Highway 8292, Bliss-Pike Rd., Wyoming Co., from E. C. Jones, Warsaw, $376,442 and $305,137 respectively, e.e. $527,887 and $438,050 respectively; 6.29 mi. Highway 1760, Hopewell Junction-Millbrook Rd., Part 3, Dutchess Co., from Stento & Sarafina, Binghamton, $420,275 e.e. $538,259; 1.33 mi. Repair Contr. 1645, Weaver St., Part 1, Westchester Co. from F. Roeber Co., Inc., 507 5th Ave., New York City, $111,803 etc., $138,646; 12.37 mi. Highway 8291, Coram-Middle Island East, Suffolk Co., from Connor Bros., Franklin Blvd., Long Beach, $514,421 etc., $756,677; 4.11 mi. Repair Contr. 1659, Highway 5299, Babylon Village, Highway 743 Babylon-Bayshore Rd., Suffolk Co., from Hogeboom & Campfield, Inc., Kingston, $315,948 e.e. $433,239; 2.34 mi. Repair Contr. 3190, Highway 250, Utica-Oneida Castle Rd., Part 1, Oneida Co., from Utica Constr. Co., Utica, $171,523 etc., $244,219; 1.01 mi. Repair Contr. 1666, Highway 1015, Crystal Springs-Chappaqua-Millwood Rd., Westchester Co., from J. Mascetti Co., 223 Oak Ave., Torrington, Conn., $92,735 e.e. $121,455. Noted Sept. 22.

New York—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, Oct. 5, grading and paving, etc., Hutchinson River Parkway, Mamaroneck Ave., etc., in White Plains and Harrison, from P. S. Cramer, 207 East 58th St., New York City, bituminous macadam $213,988, from J. E. Brady Co., 280 Madison Ave., New York City, amesite $232,340, from Hastings Pavement Co., 25 Broad St., New York City, asphalt block $240,142, and from J. H. Gordon, 191 North Lake Ave., Albany, rein.-con. $183,077. Noted Sept. 22.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Oct. 5, asphalt paving portion 43rd St., from Uvalde Asphalt Paving Co., 1 Bway., New York City, $17,835; asphalt block paving portion Northern Blvd., from J. J. O'Brien, Jr., William St., Jamaica, $38,395; grading, etc. portion Queens Blvd., from Kennedy & Smith, Bradford St., Flushing, $64,951; sidewalks on Northern Blvd., from C. Kurth, 5915 126th St., Richmond Hill $2,530; on 114th St., from Laurel Hill Constr. Co. $3,400, and on Celtic Ave., from Slattery Contg. Co., 10 East 43rd St., New York City $1,497. Noted Sept. 29.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Oct. 5, widen-

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ing and granite block repaving portions Avenue C and 94th St., from J. Meehan & Son, 90 West St., $51,108 and $18,070 respectively. Noted Sept. 29.

N. Y., New York—Park Bd., W. T. Herrick, pres., Arsenal Bldg., Central Park, repaving roadway across southerly portion Crotona Park, from C. D. Beckwith, Inc., Seneca Ave. and Edgewater Rd., $44,996. Noted Sept. 29.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Oct. 5, concrete repaving portions Broad and Gordon Sts., from J. E. Donovan, 2205 Richmond Terrace, Port Richmond $18,280, and Quinlan and Victory Blvds., from Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $8,483; also concrete curbing, etc. Victory Blvd., from R. Lauria, 151 Bway., West New Brighton, $5,677. Noted Sept. 29.

New Jersey—State Hy. Comn., Trenton, Oct. 3, grading, and rein.-con. paving 3,772 sq.yd. Route 17, Sect. 4, Hokokus Boro, Bergen Co., from T. Adametz, Market St., East Paterson, $23,691. Noted Sept. 22.

N. J., Newton — Town Com., Sept. 29, grading, guttering, curbing, sidewalks and concrete paving 13,318 sq.yd. various streets, from J. F. McGreevey, 141 North Main St., Manasquan, $68,406. Noted Sept. 22.

Contracts Awarded

Rhode Island — State Bd. Pub. Wks., Providence, grading highway in Northfield, to Lawton Constr. Co., Providence, $110,-163; and highway in Cumberland, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $118,523. Noted Sept. 15.

Conn., Stamford — Bituminous paving, West Broad St., to Peter Mitchell, Inc., Hackett Bldg., Greenwich, $95,931.

N. Y., New York—J. Miller, pres., Manhattan Boro, Municipal Bldg., grading, curbing, and granite block paving Fairview Ave., to Asphalt Constr. Co., 2197 Madison Ave., $52,872. Noted Sept. 22.

New Jersey—State Hy. Comn., Trenton, Oct. 4, grading and rein.-con. paving 3,772 sq.yd. Route 17, Hohokus Bergen Co., to T. Adametz, Market St., East Paterson, $23,-691. Noted Sept. 22.

N. J., Bayonne—Bd. Boulevard Comrs., Court House, Jersey City, sheet asphalt on 8 in. concrete paving 31,870 sq.yd. Hudson Co., Blvd. between West 38th and West 56th Sts., here, to C. T. Kavanagh, Inc., 780 Bway., $187,579. Noted July 14.

Pennsylvania—State Hy. Comn., Harrisburg, **(R. means Route and A. Application)**, rein.-con. paving, etc., 10,479 sq.yd. R. 4, Luzerne Co., to H. C. Kersteen, Kingston, $290,279; concrete paving, etc., 3,800 sq.yd. R. 186, Somerset Co., to M. Barker, Binghampton, N. Y., $17,564, 3,600 sq.yd. R. 86, Sect. 3, Erie Co., to C. H. Fry Constr. Co., 1902 Cherry St., Erie, $36,557, 23,170 sq.yd. R. 616, Greene Co., to McCrady Bros., 6th St., Braddock, $160,536, 23,000 sq.yd. R. 236, McKean Co., to Smouse & Kreamer, P. O. Box 906, Galeton, $120,625, 22,200 sq.yd. R. 406, Cambria Co., to A. R. Cooper Constr. Co., Parkers Landing, $82,678, 13,-600 sq.yd. R. 543, Chester Co., to Frank Mark Constr. Co., N and Wingehocking Sts., Phila., $66,003, and 15,700 sq.yd. A. 2794, York Co., to Red Lion Constr. Co., Red Lion, $70,915. Grand total $845,157. Noted June 30, Aug. 18 and Sept. 8.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to Barber Asphalt Co., 239 North 30th St., asphalt repaving Moore St. $6,344, and to Municipal Constr. Co., Washington Sq. Bldg., 17th St. $13,468; to Union Paving Co., 123 South 21st St., redressed granite block repaving Allegheny and Sedgley Aves. (track area), $32,292, and concrete repaving 33rd St., etc., $38,-418; to C. G. Centrone, 522 North 65th St., redressed granite block repaving Commerce St. $2,248, to F. A. Carruso & Son, 804 South 12th St., Germantown Ave. (track area), $27,956, to Mazzola & Marano, 739 South 7th St., 8th and 9th Sts. $38,171, 17th St. (track area), $10,312, and 18th and 19th Sts. (track area), $23,520; also to E. J. Barrett & Co., 4732 Pine St., paving and repaving certain alleys in Highway Dist. 2, $2,027. Grand total $200,756. Noted Sept. 22.

Md., Baltimore—Bd. Awards, grading 27,000 cu.yd. streets listed in Contr. 436, to Potts & Callahan, Knickerbocker Bldg., $9,720; and concrete paving 18,130 sq.yd. Contr. 437, to Arundel Contg. Co., Knickerbocker Bldg., $40,974. Noted Sept. 22.

Virginia—State Hy. Comn., Richmond, grading, etc. 8.08 mi. Route 14, Sect. 512, Alleghany Co., to Echols Constr. Co., Cass, W. Va., $151,528, 3.2 mi. Route 23, Patrick Co., to Roberts Paving Co., Pulaski $53,-134, and 0.685 mi. Route 105, Sect. 464-C and D, Tazewell Co., to R. L. Lipscomb, Bluefield, W. Va., $22,338; gravel surfacing 5.5 mi. Route 1012, Sect. S-424-A, Princess Anne Co., to Roberts Paving Co., Salisbury, Md., $69,390; bituminous macadam paving 1.7 mi. Route 28, Sect. 297-A, Albermarle Co., to Copenhaver Constr. Co., Emporia, $87,428, 0.02 mi. Route 11, Sect. 208-B, Tazewell Co. and two 20 ft. span concrete slab bridge on Route 10, Sect. S-511, Smyth Co., to Sneed & St. Martin, Gate City, $9,-426 and $5,474 respectively; three 35 ft. rein.-con. beam span bridge on Route 10, Sect. S-468, Bedford Co., to Perkins & Barnes, Blackton, $15,384. Grand total $414,103. Noted Sept. 15.

W. Va., Clarksburg—Harrison Co. Court, bermudez surfacing, etc. 4.5 mi. Brushy Fork, Marshall and Patterson Fork Rds., to Federal Asphalt Paving Co., Hamilton, O., $51,682. Noted Sept. 15.

W., Va., Clarksburg—Harrison Co. concrete paving 1½ mi. Project 2 and stone surfacing 2 mi. Project 7, in Clay and Grant Dists., to Keeley Constr. Co., Clarksburg, $35,086. Noted Sept. 22.

W. Va., Wheeling—Ohio Co. Court concrete paving 3,400 ft. Stone Church Rd., to Consolidated Eng. Co., Natl. Bank of West Virginia, $28,099.

Georgia—State Hy. Dept., East Point, concrete paving 2 mi. Buford-Gainesville Rd., Gwinett Co., to Carolina Constr. Co., Spartenburg, S. C., $52,318. Engrs. est. $50,000.

Florida — State Road Dept., F. A. Hathaway, chn., Tallahassee, single bituminous treatment on broken stone surfacing 70,982 sq.yd. Project 50-A, Putnam Co., to L. M. Gray, Gainesville, $97,924; sheet asphalt surfacing 95,080 sq.yd. Project 640-A, and bitulithic concrete (Topeka) paving 124,651 sq.yd. Project 640-B, Martin Co., to West Constr. Co., Chattanooga, Tenn., $223,618 and $309,165 respectively; bituminous macadam paving 140,010 sq.yd. Project 654, Broward Co., to S. P. Snyder & Son, Fort Lauderdale, $301,380, and 87,-339 sq.yd. Project 683-C, Palm Beach Co., to Harrison Constr. Co., Box 1997, Buena Vista Sta., Miami, $184,730; broken stone paving 177,014 sq.yd. Project 669XZ, Collier Co., to H. E. Wolfe Constr. Co., St. Augustine, $200,256; grading, etc., 112,204 cu.yd. Project 722, Jefferson Co., to R. J. Carroll, Lamont, $61,254, and 212,707 cu. yd. Project 615, Sarasota Co., to E. F. Powers Constr. Co., 816-7, Harvey Bldg., West Palm Beach, $108,004; surface treating on lime rock paving Project 659, Clay Co., to Duval Eng. & Contg. Co., Dyal Upchurch Bldg., Jacksonville, $34,748. Grand total $1,521,079. Noted Sept. 15.

Miss., Jackson—Asphalt and concrete paving, etc. various streets, to Dunn Constr. Co., Merchants Bank Bldg., $32,000.

Kentucky—State Hy. Dept., Frankfort **(S. P. means State Project)**, napped sandstone with sandstone filler surfacing 4 mi. Middlesboro-Pruden Rd., S. P. 5-H, and 2.841 mi. Pineville-Clear Creek Rd., S. P. 112-B, Bell Co., to F. W. Graham, Pineville, $20,180 and $12,310 respectively; traffic bound sandstone surfacing 14.165 mi. Salyersville-Paintsville Rd., S. P. 34-D, Magoffin and Johnson Counties, to Wilmore Constr. Co., Wilmore, $69,921; grading, etc., using concrete headwalls, also concrete bridges on 13.106 mi. London-Manchester Rd., S. P. 28-A, Laurel Co., to A. Dunn Constr. Co., South Corbin, $119,445. Grand total $221,856. Noted Sept. 15.

O., Canton—Vertical fibre brick paving 24th St. N.E. from Giols Ave. N.E. to St. Elmo Ave. N.E., and 23rd St. N.E. from Rowland Ave. N.E. to St. Elmo N.E., to Garaux Bros Co., Massillon Rd., $25,000 and $30,000 respectively.

O., Cleveland—Bd. Comrs. Cuyahoga Co., curbing and concrete resurfacing 18,417 sq. yd. S. O. M. Center Rd. 2, to Cleveland Trinidad Paving Co., Western Reserve Bldg., $80,736. Noted Sept. 22.

Mich., Berkley (br. Detroit)—For 8 in. concrete paving 35,000 sq.yd. Twelve Mile Rd. and Woodward Ave., to R. D. Baker Co., 1631 Elmhurst Ave., Detroit, $100,820.

Mich., Detroit—Grading and one course 6 in. concrete paving, etc. 13,500 sq.yd. Alleys 3370 to 3379, to Otis Cement Constr. Co., 419 Hammond Bldg., to Bishop & Weir, 6551 East Six Mile Rd., to W. G. Tatti, 1337 Three Mile Dr., and C. L. Lincoln, 12337 Indiana Ave. $33,000.

Mich., Detroit—Stone or concrete curbing and 3½ in. sheet asphalt on 8 in. concrete paving 4 avenues, to M. R. Hanna Co., Ryan Ave. and Nevada Rd., $91,602; Wildemere Ave., to Cleveland Trinidad Paving Co., 402 Hammond Bldg., $10,186; and 4 avenues, to Detroit Asphalt Paving Co., 909 Transportation Bldg., $109,997. Grand total $211,785. Noted Sept. 29.

Mich., Pontiac—Concrete curbing, concrete sidewalks and 8 in. concrete paving 28,381 sq.yd. Montcalm, Perry and Baldwin Sts., Assessment Dist. 125, to Taylor Constr. Co., Birmingham, $104,974.

Mich., Wyandotte—E. C. Bryan, city clk., concrete paving Special Assessment Dist. 91, 96 and 100, to W. L. Thon, Wyandotte, $42,764. Noted Sept. 8.

Ill., Chicago—Cook Co. Highway Dept., paving, etc., portion Cicero Ave., to Goelitz Bros., Oak Park, $54,998; and portion Schmadka Rd., to Chicago Heights Coal Co., Chicago Heights, $61,338.

Ill., Chicago—Cook Co. Highway Dept., 139 North Clark St., to W. A. Black & Co., 228 North La Salle St., paving 2.7 mi. Oakton St. $135,868, to J. P. O'Keefe, 7854 Ashland Ave., 1.1 mi. Harlem Ave. $40,551, to H. J. Goelitz, Oak Park, portion Harlem Ave. $18,370, to Chicago Heights Coal Co., Chicago Heights, 3 mi. Grand Ave. $124,-829, 4.3 mi. Lawrence Ave. $182,145, and 2.3 mi. Harlem Ave. $111,479, to A. Ward & Son, Lansing, 4.5 mi. Archer Ave. $218,-476, to S. Jaicks, 77 West Washington St., 1.8 mi. Irving Park Blvd. $71,302, to Jaicks Bros., 77 West Washington St., 2.2 mi. Belmont Ave. $140,902, to Arcole Constr. Co Evanston, 1 mi. Demster St. $25,002, and to States Impvt. Co., 160 North La Salle St., 1 mi. 95th St. $38,792. Grand total $1,107,715. Noted Sept. 22.

Ill., Glenview—Rein.-con. paving 26,000 sq.yd. various streets, to Milburn Bros., 18th and Charles Sts., Rockford, Ill., $114,896.

Ill., Westmont — For 7 in. rein.-con. paving 61,000 sq.yd. various streets, to United Contractors, Glen Elyn, $191,875. Noted Sept. 22.

Wis., Milwaukee—Bd. Pub. Wks., R. E. Stoelting, comr., to Gumz & Switalski, 831-13th Ave., grading and paving East Euclid Ave. $2,971, Mitchell St. $16,382, Morgan Ave. $4,962, and 29th Ave. $4,716; to J. P. Mahlberg, 818 Capitol Dr., Morgan Ave., $7,205; to Wisconsin Asphalt Paving Co., 123 Milwaukee Ave., Summitt Ave., $11,-467; to Ryback & Sadowski, 1092-2nd Ave., 1 alley $1,697; to Swerm Bros., 2 alleys $11,608; to Schramkowski & Sons, 918 Dousman St., 54th St. $4,437, 37th St. $5,-328, and 2 alleys $11,020; to Dean Constr. Co., 382 East North Ave., 59th St. $1,303, and Hopkiss St. $466; to N. Harris, Girard and St. Albons Sts., 3 alleys, $12,548; to J. C. Bluhm & Sons, 1299 Achilles Pl., 1 alley, $5,727; and to Bloch Constr. Co., 2123 Vliet St., 1 alley, $6,000. Grand total $107,838.

Iowa—State Hy. Comn., Ames **(F. A. P. means Federal Aid Project and S. A. P. State Aid Project)**, to Natl. Constr. Co., 1315 South 20th St., Omaha, Neb., grading, paving, etc., 95,764 sq.yd. U. S. Highway 218, F. A. P. 251-A, Benton Co., $236,562, 16,560 sq.yd. Sigourney Rd., F. A. P. 34 $41,205, and 117,077 sq.yd. Washington Co. line Rd., P. P. 489 $289,061, both Keokuk Co., 8,002 sq.yd. Washington Rd., F. A. P. 71 $20,632, and 152,249 sq.yd. Keokuk Co. Line Rd., P. P. 544-A $384,864, both Washington Co., to Wright Constr. Co., 1327 Main St., Des Moines, 89,647 sq.yd. U. S. Highway 34, F. A. P. 20, Monroe Co. $278,-627, and 71,153 sq.yd. U. S. Highway 32, P. P. 451, Cedar, Scott and Muscatine Counties $165,822, and to C. F. Lytle Constr. Co., 625 Finance Bldg., Sioux City, 189,401 sq.yd. Primghar Rd., P. P. 545, O'Brien Co. $419,264; to M. O. Weaver, Iowa Falls, graveling 11.46 mi. U. S. Highway 161, F. A. P. 224, Linn Co. $8,110, to Moore & Eldridge, Clemens, 10.9 mi. Marion-Central City Rd., F. A. P. 230, Linn Co. $10,333, to Tama Sand & Gravel Co., Tama, 4.76 mi. U. S. Highway 30, P. P. 276, Tama Co. $10,780, to H. J. Dane, Iowa City, 7.713 mi. Iowa City Rd., P. P. 35-D, Johnson Co. $20,800, to M. Baker, Maquoketa, 6 mi. Wyming-Jacksn Rd., F. A. P. 163-C, Jones Co. $10,395, to F. Cram, 1535 East 13th St., Des Moines, 2.73 mi. Carnforth Rd., F. A. P. 261-B, Poweshiek Co. $7,812, and 11.11 mi. Norwalk-Martindale Rd., P. P. 518, Warren Co. $20,640; to J. O'Neil, Hamilton, Mo., grading 1.4 mi. Centerville Rd., P. P. 535, Appanoose Co. $9,132, to J. H. Miller & Son, Dumont, 7,615 mi. Hamilton-Monroe Co. line Rd., F. A. P. 253, Marion Co. $51,008, to Stevens Bros., Minneapolis, Minn., 8.433 mi. Hopkinton Rd., F. A. P. 249-A, Delaware Co. $61,365, to E. J. Wilson, 208 North 30th St., Omaha, Neb., 2.795 mi. U. S. Highway 30, F. A. P. 14, Harrison Co. $13,864, and to G. W. Condon, 514 Federal Reserve Bldg., Omaha, Neb., 3.314 mi. U. S. Highway 30, F. A. P. 303, Tama Co. $43,012; to J. H. Green & Son, Sheldon, 14,320 cu.yd. bridge fill on F. A. P. 28, and P. P. 67, Sioux Co. $4,869, and to W. F. Dollon & Sons, Bentley, 6,824 cu.yd. bridge fill on P. P. 547, Pottawatomie Co. $2,047; to F. H. Christianson, Guthrie Center, 5,920 ft. guard rail and 36 anchors on various projects in Dallas Co. $1,557, to H. Murphy, Marengo, 9,540 ft. guard rail

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and 62 anchors on U. S. Highways 34 and 63, F. A. P. 159 and 246, Wapella Co. $2,819, to G. Cronkhite, Perry, 9,920 ft. guard rail and 20 anchors on U. S. Highway 75, P. P. 223-A Sioux Co. $1,885. Grand total $2,108,472. Noted Sept. 15.

Ia., Carroll—Carroll Co., to R. Briscoe, Arcadia, improving secondary roads, 2,250 cu.yd. gravel 1 mi. haul at $0.35 per cu.yd. and 15,375 units overhaul at $0.075; to L. V. Kier, Nemaha, 10,400 cu. yd. gravel 1 mi. haul $0.265 to $0.35, 41,000 units overhaul $0.065 and $0.07; to Northwestern Gravel Co., 106 Grand St., Des Moines, 3,650 cu.yd. gravel f.o.b. Halbur, at 1.575, 1,000 cu.yd. f.o.b. Maple River at $1.38, and 2,250 cu.yd. f.o.b. Arcadia $1.3275.

Ia., Cedar Rapids—Linn Co., improving secondary road system, 9,300 cu.yd. crushed stone complete on roads, to Falcon & Reinking, 218 Cedar Rapids Natl. Bank Bldg. at $2.395 per cu.yd., 12,100 cu.yd., to B. C. Johnson, Cedar Rapids $2.45, 1,900 cu.yd., to Shaler & Albright, Cedar Rapids $2.73, and 3,400 cu.yd. Class A gravel complete on roads, to Moore & Eldridge, Clemons, $1.90.

Ia., Sac City—Sac Co., to Ring Bros., Sac City, improving township roads, 12,500 cu.yd. gravel 1 mi. haul at $0.25 and $0.30 per cu.yd., 45,500 units overhaul at $0.65 and $0.07, and 2,800 cu.yd. stripping at $0.20.

Minnesota—State Hy. Comn., St. Paul, **(S. P. means State Project and F. A. P. Federal Aid Project)**, grading 275,000 cu. yd. S. P. 1-51, and 35,000 cu.yd. S. P. 945, Sect. 1, F. A. P. 408, to C. W. McNamara, Sioux Falls, S. D., $152,038, 208,000 cu.yd. S. P. 4-36, Sect. 2, F. A. P. 395, to S. J. Peterson, 2942 Pleasant Ave., Minneapolis, $69,079, 112,600 cu.yd. S. P. 8-39, F. A. P. 302, to Jamieson-Shelley Co., Stillwater, $36,487, 380,000 cu.yd. S. P. 9-21, Sect. 2, F. A. P. 399, to A. Guthrie & Co., 1209 Builders Exch. Bldg., St. Paul, $231,238, 136,700 cu.yd. S. P. 10-54, Sect. 2, F. A. P. 392, to C. Weaver, Anoka, $46,569, and 283,800 cu.yd. S. P. 28-29, F. A. P. 393, to H. Huebscher, 1337 Edmund St., St. Paul, $114,941; also concrete paving 171,600 sq. yd. S. P. 62-21, Divs. B and C, to Thornton Bros. Co., 318 Endicott Bldg., St. Paul, $226,282, and 136,800 sq.yd. S. P. 63-22, Divs. E and F, to Woodrich Constr. Co., 808 Metropolitan Life Bldg., Minneapolis, $196,660. Grand total $1,073,294. Noted Sept. 8.

Nebraska—Dept. Pub. Wks., Lincoln, grading 14 mi. Project 97-C, Pawnee Co., to Monarch Eng. Co., Falls City, $43,040; and 8.9 mi. Project 246-C, Richardson Co., to Yant Constr. Co., 905 Omaha Natl. Bank Bldg., Omaha, $50,533. Noted Sept. 15.

Neb., Lincoln—To Cochrane Constr. Co., 822 1st Natl. Bank Bldg., asphaltic concrete Paving 690 sq.yd. Dist. 759 $2,486, 3,555 sq.yd. Dist. 756 $11,730, and 2,400 sq.yd. Dist. 757 $8,396; also to Abel Constr. Co., 308 Terminal Bldg., 3,680 sq.yd. Dist. 764, $11,525. Grand total $34,137. Noted Aug. 25.

North Dakota — State Hy. Comn., Bismarck, graveling, etc., 12,562 cu.yd. Project 58, Sargent Co., to W. H. Noel & Co., Jamestown, $25,161; 24,263 cu.yd. Project 306-B, and 5,269 cu.yd. Project 54, Kidder Co., to F. J. Petts, Fargo, $18,889 and $2,680 respectively. Grand total $46,730.

Wyoming—State Hy. Comn., Cheyenne, **(F. A. P. means Federal Aid Project)**, select material surfacing 33,500 cu.yd. F. A. P. 168-B, Natrona Co., to T. D. Cain, Riverton, $50,625; grading, etc., 125,100 cu.yd. F. A. P. 193-B, Lincoln Co., to Taggart Constr. Co., Cody, $48,687, and 87,200 cu.yd. F. A. P. 138-C, Laramie Co., to Code & Peterson, $27,120; also constructing bridge on same road, to Levy Constr. Co., Denver, Colo., $6,917. Grand total $133,349. Noted Sept. 22.

Montana — State Hy. Comn., Helena, **(F. A. P. means Federal Aid Project)**, grading, etc., 4.651 mi. F. A. P. 231, Sect. B, Missoula Co., to T. Helean, Missoula, $19,884; 5.91 mi. F. A. P. 207-B, Silver Bow Co., to Sutherland & Burns, Kalispell, $41,330; 4.877 mi. F. A. P. 239-C, Park Co., and 8.221 mi. F. A. P. 157-B, Garfield Co., to J. W. Hershberger, Hardin, $30,261 and $21,513 respectively. Grand total $112,988.

Mo., Joplin—To V. E. Koch, 417½ Joplin St., squeegee asphalt paving, etc. 8,340 sq.yd. 18th St. at $1.68 per sq.yd., 2,325 sq.yd. 3rd St. $1.65, concrete paving, etc. 720 sq.yd. alley between Moffett and Sergeant Sts. at $1.72 per sq.yd.; also grading and macadam paving, etc. Moffett Ave. $1,899, and to C. R. DuBois, Pittsburg, Kan., grading, macadam paving, etc., 6th St. $4,403, 28th St. $595, and Ozark St. $1,200.

Mo., Kansas City—Asphaltic concrete paving 24,862 sq.yd. 15th St., to T. P. Thompson, 3908 Forest Ave. $95,479.

Arkansas—State Hy. Comn., Little Rock, grading, etc., 8.8 mi. Glenwood Kirby Rd., Pike Co., and 12 mi. Fort Smith and Dardanella Rd., Logan Co., to Cook & Ransom, Ottawa, Kan., $62,720 and $72,734 respectively; 6.4 mi. Prescott Rosston Rd., Nevada Co., to Griffin & Harvilles, Gurden, $27,069; 8 mi. Fort Smith Charleston Rd., Sebastian Co., to Winstead & Gunter, Siloam Springs, $49,587; 12 mi. Camden Chidester Rd., Quachita Co., to M. Tansey, Bastrop, La., $71,545; 17 mi. Dallas Co. line Malvern Rd., Hot Springs Co., to R. O. Gwin, Sheridan, $64,285; 6.5 mi. Holly Island Rd., Clay Co., and 5.3 mi. Marmaduke Clay Co. line Rd., Green Co., to LaHar Bros., Springfield, Mo., $44,070 and $43,520 respectively; 3.7 mi. Eldorado Calion Rd., Union Co., to Phipt Constr. Co., Pine Bluff, $100,205; 12.5 mi. Hot Springs Malvern Rd., Hot Springs Co., to M. E. Gilfioz, Monett, Mo., $128,402; 17.2 mi. Hot Springs Glenwood Rd., Garland Co., to J. Spencer & Sons, Mulvane, Kan., $123,327; and 5 mi. Pansy West Rd., Cleveland Co., to R. J. Lynch, Little Rock, $27,726. Grand total $815,190.

Texas—R. A. Thompson, engr. State Hy. Dept., Austin **(e.e. means engrs. est.)** grading and drainage structure on 9.573 mi. Highway 1 from Howard Co. line to Westbrook, 26 ft., Mitchell Co., to Culverhouse & Jones, Trent, $30,342 e.e. $32,000; 2½ in. bituminous macadam surfacing 3.894 mi. Highway 6, 18 ft., Hill Co., to R. B. Sparks, 225 North Brighton St., Dallas, $58,489 e.e. $60,000; two course surface treatment 383,539 sq.yd. Highway 1 from Jeff Davis-Culberson Co. line to point 5 mi. west of Toyah from Pecos River to point 16.33 mi. westerly, Jeff Davis and Reeves Counties to Cocke & Turner, Marshall, $74,023 e.e. $80,000; and concrete paving 6.309 mi. Highway 90, 18 ft., Washington Co., to A. A. Davis & Co., 31st and Troost Sts., Kansas City, Mo., $133,131 e.e. $150,000. Grand total $295,985.

Tex., Sherman — Grayson Co., grading, bridging and concrete paving 13 mi. Highway 5 from Sherman to Fannin Co. line, 18 ft. $420,836. J. G. Rollins, Sherman, engr.

Okla., Medford—W. V. Shanklin, city clk., grading, curbing and 6 in. concrete paving 7,700 sq.yd. Oklahoma and 1st Sts., to Ward, Beekman & Brooks, 1801 East 9th St., Oklahoma City, $23,741. Engrs. est. $26,000.

Okla., Newkirk—Grading, curbing and 6 in. concrete paving 9,610 sq.yd. Cedar and Chestnut Sts., to Watson & Son, Newkirk, $27,442. Engrs. est. $30,000.

Okla., Prague — Grading, curbing and 7 in. concrete paving 5,700 sq.yd. Bway. and 11th St., to Baum & Dyer, Durant, $27,464. Engrs. est. $27,844.

Okla., Shawnee—For 2 in. asphalt on 5 in. concrete paving 21,000 sqyd. various streets, to H L. Cannady Co., 1122 South Lewis St., Tulsa, $113,664. Noted Sept. 22.

Colorado—State Hy. Dept., Denver, concrete paving and gravel shoulders on 1.959 mi. Highway 1, Las Animas Co., to W. A. Colt & Son, Las Animas, $79,335.

Idaho—J. D. Wood, comr. Pub. Wks., Boise, grading, etc., 15.567 mi. Federal Aid Project 86-C, Canyon and Ada Counties, to Morrison & Knudsen Co., 319 Bway., Boise, $195,618.

Utah—State Hy. Comn., Salt Lake City, graveling 2.113 mi. Project 103, and 4.285 mi. Project 93-C, Summit Co., to J. M. Sumsion, Springville, $17,641 and $37,385 respectively.

Wash., Kelso—Comrs. Cowlitz Co., grading, graveling, etc., 2,409 cu.yd. and constructing 140 ft. steel span bridge on Permanent Highway 13, to J. R. McAuliffe, Longview, $42,000. Noted Sept. 15.

Wash., Seattle—Paving, etc. 21st Ave. S., et al., to F. McLellan, Dexter Horton Bldg., $25,566.

Wash., Seattle—Paving 5th Ave. N. E. et al, to Fiorito Bros., 3950 6th St. N.W., $62,985.

Oregon—State Hy. Dept., Salem, grading, etc. 11.17 mi. Burns Otis Market Rd., Harney Co., to Jetty Bros., Burns, $99,562; furnishing maintenance materials and surfacing Dallas-California Highway, Jefferson Co., to L. F. Ireton, McMinnville $36,796, Old Oregon Trail, Umatilla Co., to C. R. Seitz, LeGrand $38,497, and West Sect. Old Oregon Trail, Umatilla Co., to Wren & Greenbaugh, Portland $37,569. Grand total $212,424.

California—Golden Gate Ferry Co., c/o A. O. Stewart, Holbrook Bldg., San Francisco, waterbound macadam paving approximately 11 mi. Sears-Point Cut-off Rd., Sonoma and Solano Counties, to Hutchinson Co., 1706 Bway., Oakland, approximately $100,000. Noted May 19.

Calif., Oakland—Port Comn., Warrenite surfacing, etc. 14th St. wharf, to California Constr. Co., 58 2nd St., San Francisco, $28,996.

Calif., Oakland—Alameda Co., grading, surfacing and oil macadam paving, etc. 118,000 sq.ft. portions Skyline Blvd. and Spruce St., etc., to Oakland Paving Co., 5000 Bway., $36,582. Noted Oct. 6.

Calif., Piedmont—Grading, curbing, guttering and macadam paving, etc. Moraga Ave., to Heafey-Moore Co., 344 High St., Oakland, $28,250.

Calif., San Diego—Common Council, improving Hickory St., etc., and Hill St., etc., to V. R. Dennis Constr. Co., 3843 Park Blvd., $73,310 and $253,157 respectively.

Buildings—Commercial

Proposed Work

Mass., Brockton — TEMPLE — Brockton Masonic Building Assn., M. L. Keith, 16 Plain St., plans masonic temple, Main St. To exceed $150,000. Osgood & Osgood, Monument Sq. Bldg., Grand Rapids, Mich., archts.

Mass., Leominster—THEATRE—A McEvoy, Mechanic St., plans rebuilding theatre, Mechanic St. $150,000. Engineer and architect not selected.

Conn., Waterbury — BUSINESS — New England 5-10 and 25 cent Store, Inc., c/o G. A. Quick, archt., 170 Kneeland Rd., New Haven, had plans prepared 6 story, 60 x 90 ft., brick and steel, East Main St. $175,000.

N. Y., Jamaica—THEATRE—Paramount Theatres, Inc., Paramount Bldg., New York City, having sketches made by J. Eberson, 250 West 57th St., New York City, theatre, Jamaica Ave., here. $1,000,000.

N. Y., New York — APARTMENT — Ridansky & Levy (owners and builders), 424 Madison Ave., having sketches made by R. Candela, 578 Madison Ave., 15 story, 76 x 100 ft., brick and steel, plain foundation, 445 East 57th St.

N. J., Bayonne—CITY HALL—Bd. Council, City Hall, receiving sketches from selected architects, 4 story and basement, brick and steel, plain foundation. $150,000 Engineer and architect not selected. Noted Sept. 29.

N. J., East Orange — APARTMENT — Altshulter & Cohen, c/o E. V. Warren, archt., Essex Bldg., Newark, having plans prepared 4 story and basement, 50 x 150 ft., brick and steel, plain foundation, 57 Chestnut St. $150,000.

N. J., Elizabeth—STORE and APARTMENT—S. Binder, 120 Broad St., having plans prepared by W. L. Finne, 91 Broad St., 3 story and basement, brick and steel, plain foundation, 701-11 Grove St., $150,000.

N. J., Newark—APARTMENT—S. Goldberg, c/o E. V. Warren, archt., Essex Bldg., having plans prepared 4 story and basement, 50 x 150 ft., brick and steel, plain foundation, Clinton Pl. and Hansbury Ave. $150,000.

N. J., Newark—HOTEL—Robert Treat Hotel Co., 154 Park Pl., having plans prepared by Guilbert & Betelle, 20 Branford Pl., 16 story and basement, brick and steel addition, 44 Park Pl. $500,000. Noted Aug. 18.

N. J., Passaic—APARTMENT—L. Stein, 231 Lexington Ave., having plans prepared by E. V. Warren, Essex Bldg., Newark, 4 story and basement, 50 x 150 ft., brick and steel, plain foundation, 190-2 Lexington Ave. $150,000. Noted Sept. 29.

N. J., Rutherford—OFFICE—Pub. Serv. Production Co., archts., 80 Park Pl., Newark, soon lets general contract 2 story and basement, 60 x 140 ft., brick and steel, plain foundation, here, for Pub. Serv. Gas & Electric Co., 80 Park Pl., Newark. $150,000.

Pa., Johnstown — PASSENGER and FREIGHT STATION—Baltimore & Ohio R.R. Co., H. A. Lane, ch. engr., Baltimore, Md., soon takes bids passenger and freight station, here. $500,000.

D. C., Wash.—APARTMENT—Ell & Kay Building & Investment Co., 474 Penn. Ave. N.W., takes bids about Nov. 1, apartment, Lanier Pl., and Ontario Rd. $180,000. L. T. Rouleau, 1420 K St. N.W., archt.

Ga., Barnesville—COURTHOUSE and JAIL—Lamar Co. plans stone, rein.-con. and brick court house and jail. $150,000. J. J. Baldwin, Taylor Bldg., Asheville, N. C., archt.

Ga., Waycross — HOTEL — Wallin & Comer, archt., Realty Bldg., Savannah, soon lets contract prepared plans 100 x 100 ft., brick and steel, here, for Community Hotel Corp. $300,000.

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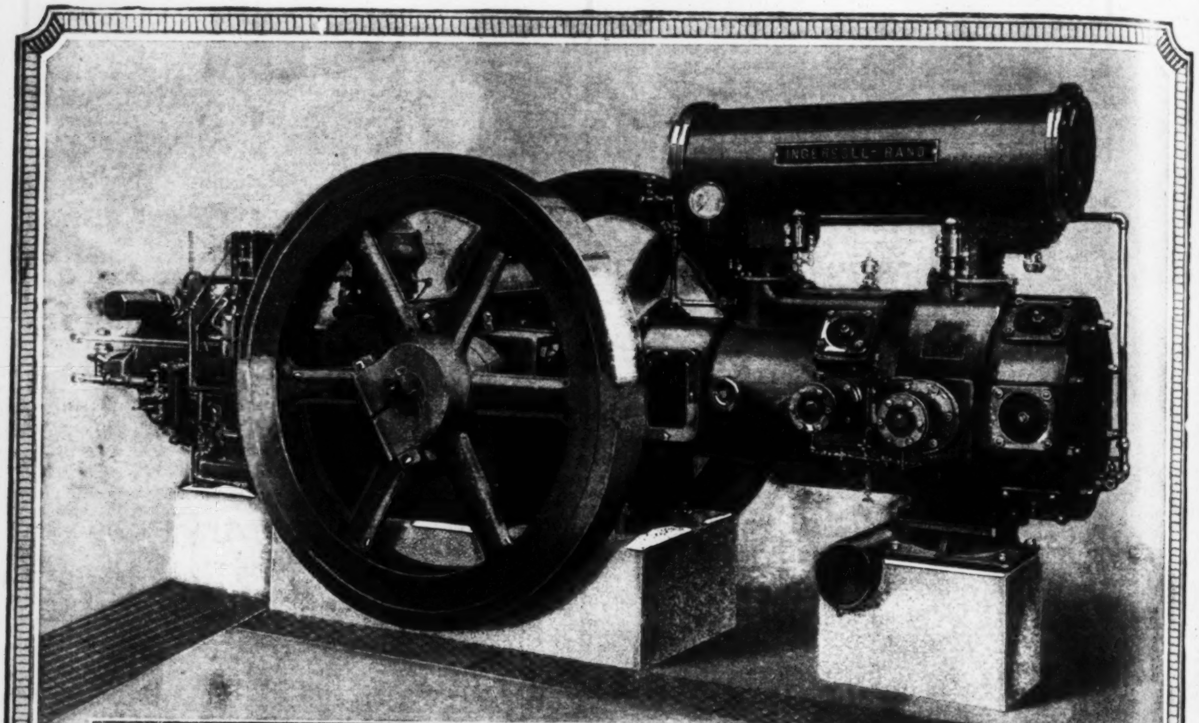

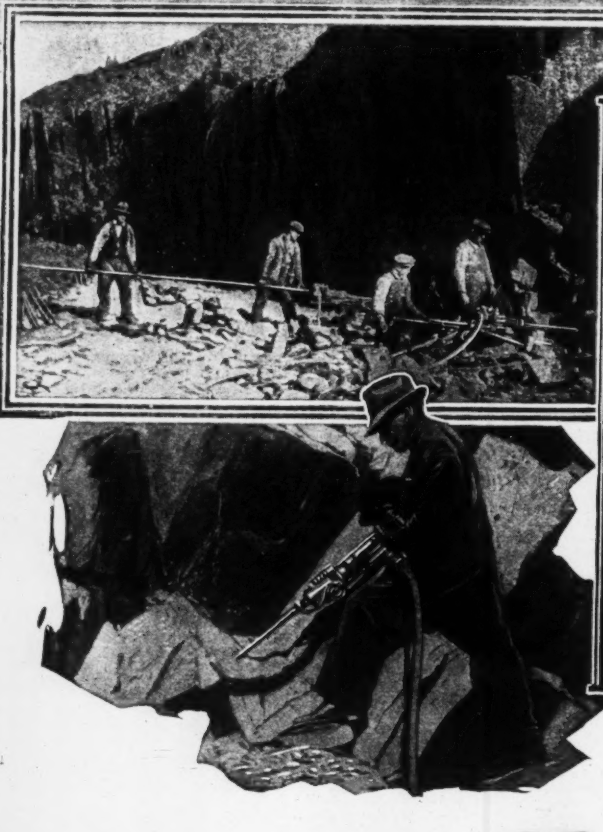

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Buildings—Commercial (Continued)

Fla., Jacksonville—APARTMENT—R. A. Ransford & associates, had plans prepared by R. Seymour, 207 Hamby Bldg., 9 story and basement, 60 x 100 ft., rein.-con. and steel, 6th and Lauria Sts. $375,000.

La., New Orleans — HOSPITAL — Flint Goodridge Hospital, Canal St., plans hospital, Canal St. $500,000. Engineer and architect not selected.

Ky., Glasgow — HOSPITAL — Commonwealth Fund, 1 East 57th St., New York City, having plans prepared by H. C. Pelton, 415 Lexington Ave., New York City, 3 story and basement, 40 x 160 ft. hospital. $160,000. Noted Nov. 11.

Ky., Louisville—DEPARTMENT STORE—B. Snyder, Inc., 624 West Market St., plans 6 story and basement, 70 x 140 ft. department store, 514-520 West Market St. $500,000. Engineer and architect not selected.

O., Cleveland—HOTEL—H. H. Timken, Harrison Ave. N. W., Canton, had plans prepared by V. Redding and associates, Bird Bldg., Mansfield, 3 story and basement, 43 x 188 ft., brick, steel and concrete, East 185th St. and Lake Shore Blvd., here. $200,000.

O., Cincinnati—HOTEL—R. A. Casey Realty Co., Garfield Hotel, having plans prepared by G. W. Drach, 1701 Union Trust Bldg., 16 story and basement, 90 x 90 ft., brick and rein.-con. addition to Garfield Hotel, plain foundation, Race St. $2,000,000.

O., Cincinnati — OFFICE — Western & Southern Life Insurance Co., 9th St. and Bway., having plans prepared by A. Wachtel, Avon Bldg., 14 story and basement, 80 x 170 ft., Indiana limestone, brick and rein.-con., plain foundation, Bway. $1,000,000.

O., Dayton—BANK and OFFICE—Permanent Building & Savings Assn., 102 East 5th St., having plans prepared by C. F. Cellorius, 906 St. Paul Bldg., 2 story and basement, 60 x 100 ft., brick and steel, plain foundation, North Ludlow St. $250,000.

O., Marion—THEATRE and STORE—J. Eberson, archt., 212 East Superior St., Chicago, Ill., soon lets contract, theatre and store, Center and Campbell Aves, here, for Young Amusement Co., Gary, Ind. $400,000.

Ind., Indianapolis — APARTMENT — W. N. Harding, 206 Hume-Mansur Bldg., having preliminary plans prepared 5 story and basement, 56 x 120 ft., rein.-con. and brick, Meridian and 28th Sts. $175,000. Engineer and architect not selected.

Mich., Detroit — APARTMENT—Owner, c/o P. R. Rossello, archt., 406 Congress Bldg., had plans prepared 4 story and basement, 82 x 140 ft., brick and steel, plain foundation, Waterloo Ave. $225,000.

Mich., Detroit—APARTMENT—Owner, c/o R. Finn, archt., 415 Brainard St., having plans prepared 12 story and basement, 100 x 200 ft., rein.-con., brick and steel, plain foundation, Northwest section. $1,500,000.

Mich., Detroit — OFFICE — Griswold Amusement Co., 1313 Dime Bank Bldg., having plans prepared by A. Kahn, 1000 Marquette Bldg., 15 story (ultimately 17 story) and basement, 100 x 152 ft., rein.-con., brick and steel, plain foundation, Griswold St.

Mich., Pontiac—BANK and OFFICE—Peoples State Bank, North Saginaw St., having plans prepared 14 story and basement, 70 x 140 ft., rein.-con., brick and steel, plain foundation, North Saginaw St. $1,000,000. Engineer and architects names withheld.

Ill., Chicago — APARTMENT, STORE and OFFICE — J. Kulp & Co., 29 South La Salle St., having plans prepared by A. S. Alschuler, 28 East Jackson Blvd., 3 story and basement, 100 x 140 ft., rein.-con., brick and stone, Madison St. and Locus Ave. $500,000.

Ill., Chicago — OFFICE and WAREHOUSE — General Tire & Rubber Co., 1312 South Michigan Ave., having sketches made by N. M. Dunning, 25 East Jackson Blvd., 4 story, rein.-con. and brick, Cottage Grove Ave. and 23rd St. $250,000.

Ill., Chicago—OFFICE and STORE—Fox & Fox, archts., 38 South Dearborn St., preparing plans and soon takes bids 3 story and basement, 80 x 145 ft., rein.-con., brick and stone, West Randolph and Ada Sts., for Amer. Bulb Co., 182 North Wabash Ave. $200,000.

Wis., Madison—CLUB—Madison Catholic Community Club had preliminary sketches made by Flad & Moulton, 300 Amer. Exch. Bank Bldg., 2 story and basement, 80 x 150 ft., brick, rein.-con., stone and terra cotta, plain foundation. $175,000.

Minn., Minneapolis—ADMINISTRATION—Lakewood Cemetery Assn., 3600 Hennepin Ave., C. S. Langdon, pres., having plans prepared by E. Kennedy, 510 Essex Bldg., 2 story and basement, rein.-con. and cut stone, in Lakewood Cemetery. $150,000.

Mo., Cape Girardeau — HOTEL — Cape Girardeau Hotel Co., C. L. Harrison, pres., a toffice R. K. Knox, superv. archt., 424 H. H. Bldg., soon lets contract 6 story and basement, 42 x 82 ft., and 43 x 126 ft., rein.-con., brick and terra cotta, Bway. and Fountain St. $250,000. Manske & Bartling, 410 North Euclid Ave., St. Louis, archts. Noted Sept. 29.

Mo., St. Louis — HOTEL — Lafayette Realty Co., c/o P. J. Bradshaw, archt., International Life Bldg., having preliminary plans prepared 23 story, power and basement, 70 x 100 ft., rein.-con., brick and steel, 12th and Olive Sts.

Ark., Belle Vista—HOTEL—Linebarger Bros. having preliminary plans prepared by A. Clark, Rogers, 75 room hotel, rein.-con., brick and stone hotel.

Tex., Houston—MARKET—J. C. McVea, city engr., soon takes bids 1 story and basement, 200 x 400 ft. market, Smith and Preston Sts., for City, c/o O. F. Holcombe, mayor. $400,000. Noted May 5.

Tex., Plainview—OFFICE and STORE—Kerr & Walsh, archts., 410 Amarillo Bldg., Amarillo, take bids about Oct. 26, 4 story and basement, 50 x 140 ft., rein.-con. and brick, here, for H. E. Scaggs, Amarillo. $200,000.

Tex., San Antonio—CLUB—Avalon Club Hotel Properties, Inc., c/o P. Loring, pres., 206 Jefferson St., having plans prepared by R. H. Cameron, 1116 City Natl. Bank Bldg., and takes bids latter part of month, 1 and 2 story, 45 x 200 ft., native uncut stone, and rein.-con., plain foundation in Medina Lake 30 mi. west of here. $150,000.

Tex., San Antonio—GARAGE—Motoramp Garage, Inc., c/o A. O. McCracken, Jr., 215 North Alamo St., having preliminary plans prepared fireproof storage garage, 500 car capacity. $150,000.

Tex., San Antonio — HOSPITAL and HOME—Woodmen of the World, c/o W. A. Fraser, commander, Omaha, Neb., purchased 30 acre site near here, and plans hospital addition, old members, old ladies and crippled childrens homes, fireproof. $1,000,000. Engineer and architect not selected.

Tex., San Antonio — HOTEL — H. J. Shearer, 303 Mary Louise Dr., having plans prepared by H. T. Phelps, Hick Bldg., remodeling present 3 story and constructing 4 story, 120 room rein.-con. and brick top addition, Nueva and Garden Sts. $250,000.

Tex., San Antonio—STORAGE GARAGE—H. J. Shearer, 303 Mary Louise Dr., having plans prepared 6 story, 160 x 167 ft., rein.-con., brick and tile, plain foundation, East Houston St. between Bowie and Nacogdoches Sts. $450,000. Private plans.

Okla., Guthrie—COURT HOUSE—Logan Co., having preliminary plans prepared 3 story and basement, rein.-con. and brick, plain foundation, Vilas St. $175,000. Engineer and architect not selected.

Okla., Muskogee — COURT HOUSE — Muskogee Co., c/o L. D. Martin, clk., had plans prepared by Layton, Hicks & Forsythe, Braniff Bldg., Oklahoma City, and takes bids about Oct. 15, 4 story and basement, rein.-con., stone and brick, plain foundation. $350,000. Noted Sept. 1.

Okla., Sallisaw—COURT—Sequoyah Co. having preliminary plans prepared 3 story and basement, brick, plain foundation, Oak St. $200,000. Engineer and architect not selected.

Okla., Seminole—HOTEL—C. J. Harper (promoter) c/o A. C. Davis & Son, archts., Shawnee, having plans prepared 5 story and basement, 125 x 1,400 ft., rein.-con. and brick hotel, here.

Okla., Tulsa—GARAGE—N. B. Fleming, archt., Bliss Bldg., preparing plans 4 story and basement, 100 x 140 ft., brick, terra cotta and stone, Cincinnati St. $150,000. Owners name withheld.

Okla., Tulsa — HOTEL — Mincks Hotel Corp., 4th St., having plans prepared by A. C. Fahry, Cheyenne St., 12 story and basement, 70 x 140 ft. hotel, 4th St. $410,000.

Okla., Tulsa—OFFICE—C. P. Alexander, Alexander Bldg., having plans prepared 10 story and basement, 100 x 140 ft. Main St. $425,000. Engineer and architect not selected.

Calif., Los Angeles—APARTMENT—C. L. Cockfield having plans prepared by A. LeBrun, Palmer Bldg., 5 story and basement, 80 x 178 ft., brick and rein.-con., Hayworth Ave. near Franklin St. To exceed $150,000.

Calif., Los Angeles — APARTMENT — Lilly-Fletcher Syndicate having preliminary plans prepared by Walker & Eisen, 1117 Western Pacific Bldg., 13 story and basement, brick and rein.-con., Kenmore Ave. near Wilshire Blvd. $1,250,000.

Calif., Los Angeles — STORE and OFFICE — A. Frank, general mgr. Ambassador Hotel, having tentative sketches made by Walker & Eisen, 1117 Western Pacific Bldg., 13 story and basement, 80 x 150 ft., rein.-con., 10th and Olive Sts. To exceed $150,000.

Calif., San Francisco—APARTMENT—A. H. Larsen, archt., 447 Sutter St., preparing plans 6 story and basement, steel and rein.-con., Western addition. $250,000. Owner's name withheld.

Calif., Santa Barbara—HOTEL—A. L. Richmond, et al, c/o G. S. Underwood, archt. Hibernian Bldg., Los Angeles, having plans prepared 3 story and basement, approximately 215 x 435 ft., rein.-con., State St. $500,000.

Calif., South Pasadena (Ind. br. Pasadena)—CLUB and THEATRE—Pasadena Women's Club having preliminary plans prepared by Morgan, Walls & Clements, Van Nuys Bldg., probably rein.-con. and steel, Marengo Ave. $175,000.

Que., Quebec City — IMMIGRATION HOSPITAL—Federal Dept. Pub. Wks., Ottawa, Ont., plans 3 story, brick, steel and stone addition, Savard Park, here. $150,000.

Bids Desired

Conn., Stamford—OFFICE, STORE and APARTMENT—Gruber & Mernstein, c/o F. Urso, archt., Spelke Bldg., 432 Main St., taking bids 2 and 4 story, 55 x 75 ft., and 55 x 80 ft., brick and steel, Forest and Prospect Sts. $150,000.

N. Y., Binghamton—STAFF ACCOMMODATIONS and NURSES HOME—Oct. 26, by Dept. Mental Hygiene, Albany, constructing staff accommodations and nurses home, at Binghamton State Hospital, here. S. W. Jones, Capitol, Albany, state archt.; adv. E. N.-R. Oct. 13. Noted June 23.

N. Y., Corning—HOTEL—Oct. 14 (extended date), by Thomas, Martin & Kirkpatrick, archts., 210 South 16th St., Phila., Pa., 5 story and basement, 70 x 106 ft., rein.-con., brick and steel, plain foundation, here, for Corning Hotel Corp. Noted Oct. 6.

N. Y., Rockville Center—HOSPITAL—Oct. 25, by Hart & Shape, archts., 247 Park Ave., New York City, 3 story, brick and steel, plain foundation, here, for Rockville Center Hospital Assn., Park Ave. $250,000. Noted Aug. 4.

N. J., Grantwood—APARTMENT—See "Contracts Awarded."

Pa., Phila.—BANK—Oct. 14, by Ritter & Shay, archts., Packard Bldg., 4 story and basement, 77 x 160 ft., rein.-con., brick, steel and granite, plain foundation, Broad and Stiles Sts., for Broad Street Trust Co., c/o S. E. Krans, Juniper and Walnut Sts. Noted June 23.

Md., Baltimore—SERVICE—Oct. 18, by J. E. Sperry, archt., Calvert Bldg., Monument St. and Bway., altering concrete and brick service building, Monument St. and Bway., for Johns Hopkins Hospital, Monument St. and Bway. $150,000. H. F. Doeleman, 516 North Charles St., engr.

D. C., Wash.—APARTMENT—See "Contracts Awarded."

O., Chagrin Falls (br. Cleveland)—CLUB—Chagrin Valley Country Club, H. D. Sims, pres., 720 B. F. Keith Bldg., Cleveland, taking bids 1 and 2 story, 149 x 192 ft., brick, steel and concrete, S.O.M. Center Rd., here. $150,000. Maier & Walsh, 7016 Euclid Ave., Cleveland, archts.

Ind., Kokomo — COURT HOUSE and WAR MEMORIAL—Comrs. Howard Co., O. Butcher, aud., taking bids 3 story and basement, 100 x 150 ft., steel, stone and marble court house and war memorial. $500,000. O. Cook, 622 Armstrong St., archt. Noted June 30.

Mich., Detroit — APARTMENT — F. O. Varney, archt., 2847 Grand River Ave., taking bids 3 story and basement, 144 x 170 ft., brick, steel and stone, plain foundation, Putnam Ave. $300,000. Owner's name withheld. Noted Sept. 1.

Mich., Detroit — THEATRE — C. W. Brandt, archt., 1016-18 Francis Palms Bldg., taking bids and open same about Oct. 25, 2 story and basement, 109 x 115 ft., rein.-con., brick and steel, plain foundation, Michigan St. $200,000. Owner's name withheld.

Mich., Grosse Pointe (br. Detroit) — CLUB — Oct. 18, by Grosse Pointe Yacht Club, J. French, secy., 408 West Fort St., 3 story, rein.-con. and brick, plain foundation, Vernier Rd. $200,000. Former bids rejected. Henry & Richmond, 12 West St., Boston, archts.

Ill., Chicago—APARTMENT and STORE—Cramer & Foot, 65 East 79th St., taking bids 3 story and basement, 125 x 175 ft., rein.-con., brick and stone, 79th and State Sts. $400,000. J. Hocke, 1604 East 79th St., archt.

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Buildings—Commercial (Continued)

Wis., Milwaukee — WAREHOUSE—Van Ryn & De Gelleke, archts., 114 Wisconsin Ave., taking bids 3 story and basement, 120 x 270 ft., rein.-con. and brick, plain foundation, Green Bay St. Owner's name withheld.

Wis., Milwaukee — WAREHOUSE — C. Ringer & Son, archts., 342 Bway., taking bids 3 story and basement, 63 x 180 ft., rein.-con. and brick, plain foundation, Detroit St. Owners name withheld.

Ark., Bentonville—COURT HOUSE—Oct. 20, by Benton Co., c/o W. R. Edwards, judge, 2 story gallery and basement, 74 x 120 ft., rein.-con., brick and cut stone court house. $200,000. A. O. Clarke, Rogers, archt. Noted May 26.

Tex., Mineral Wells—HOSPITAL—Lang & Witchell, archts., 300 Amer. Exch. Bank Bldg., Dallas, taking bids 5 story, 50 x 120 ft., brick, stone and rein.-con., here, for Crazy Well Water Co.

Okla., Muskogee—COURT HOUSE—Oct. 25, by W. H. Pritchett, clk. Muskogee Co., 3 story and basement, 116 x 212 ft. rein.-con. and brick, plain foundation. $300,000. Layton, Hicks & Forsythe, Braniff Bldg., Oklahoma City, engrs. Noted Oct. 13.

Okla., Tulsa—OFFICE—Oct. 24, by T. C. Ritts, c/o Oklahoma Natl. Gas Corp., 117 West 4th St., 10 story and basement, 47 x 140 ft., brick, stone and terra cotta, plain foundation. $700,000. A. M. Atkinson, Mid-Continent Bldg., archt. Noted Oct. 6.

Wash., Seattle—CIVIC AUDITORIUM—Oct. 28, by Bd. Pub. Wks., civic auditorium 7,500 seating capacity; arena, 3,000 seating capacity and dining room 2,000 seating capacity, 3rd and Mercer Sts. $1,000,000. Schack, Young & Myers, Central Bldg., archts. Noted Oct. 6.

Calif., Los Angeles—APARTMENT—R. M. Bates, archt., 660 South Vermont St., taking bids 6 story and basement, brick, South Ardmore Ave. $150,000 or more. Owners name withheld.

Calif., Redlands — GYMNASIUM — See "Contracts Awarded."

Contracts Awarded

N. Y., New York — GARAGE — C. E. Appleby Estate, c/o Weinberger & Weishoff, engrs. and archts., 247 Park Ave., 104 x 200 ft. garage, 623 West 57th St., to T. J. Murphy Co., 2 West 45th St. Archts. est. $150,000.

N. Y., New York—HOTEL and APARTMENT—Two Hundred Forty-Four West 72nd St. Corp., c/o G. and E. Blum, archt., 415 Lexington Ave., 15 story hotel and apartment, on 60 x 82 ft. site, 244 West 72nd St., to Boudin Constr. Co., 70 West 40th St. Archts. est. $440,000.

N. J., Grantwood — APARTMENT — Owner, c/o A. DePaola, archt., 106 18th St., New York City, will build 5 story and basement, 40 x 155 ft., brick and steel, plain foundation, Anderson Ave. $150,000. Work will be done by separate contracts. Noted Sept. 8.

Pa., Phila.—TEMPLE—H. W. Castor, archt., St. Girard Bldg., 3 story, mezzanine and basement, 53 x 82 ft., rein.-con., brick and steel, plain foundation, Fitzwater and Noble Sts., to H. P. Schneider, 3713 Old York Rd., for United Supreme Council Ancient and Accepted Scottish Rite of Masonry, Broad and Race Sts. Noted July 21.

Pa., Phila. — THEATRE — B. J. Krapp, archt., 1 West 47th St., New York City, 1 story, balcony and basement, 105 x 143 ft., rein.-con., brick, steel and terra cotta, plain foundation, Quincy and Walnut Sts., to J. W. Patience, 415 Lexington Ave., New York City, for Lee and J. J. Shubert, 225 West 44th St., New York City. Noted Sept. 1.

D. C., Wash.—APARTMENT—D. L. Stern (owner and archt.) 1412 Eye St. N.W., will build apartment, 49 Eye St. N.W. $200,000. Work will be done by separate contracts.

Ala., Birmingham — HOSPITAL — Bd. Revenue, Jefferson Co., 3 story, 75 x 150 ft., brick, addition to Hillman Hospital, 20th St., to A. J. Krebs Co., Walton Bldg., Atlanta, Ga., $383,900. Former contract rescinded. Noted Apr. 21.

La., New Orleans—FURNITURE STORE—M. Barnett Furniture Co., 541 Baronne St., general contract 8 story, 103 x 150 ft., rein.-con., wood pile foundation, Carondelet St., to R. P. Farnsworth & Co., Canal Commercial Bldg., $324,376.

O., Canton—APARTMENT—Market-19th Co., c/o John Sherwood Kelly, archt., 4216 Prospect Ave., Cleveland, 3 story and basement, Market Ave. N., here, to E. Crump, 4031 Bigelow Blvd., Pittsburgh, Pa., $250,000. Noted June 23.

O., Cincinnati—APARTMENT—D. Fabe, Southern Ohio Bank, 3 story and basement, 150 x 190 ft., brick and rein.-con., plain foundation, Salutarius St., to A. Schuholz, 2920 Erie Ave. $160,000.

O., Cincinnati—AUTO SERVICE—Daylight Realty Co., 718 1st Natl. Bank, 5 story and basement, brick and rein.-con., plain foundation, 6th and Court Sts., to Hillsmith & Co., Union Trust Bldg., $300,000. Noted Sept. 29.

O., Cincinnati — OFFICE — Fountain Square Building Co., 1400 Gilbert Ave., 20 story and basement, 33 x 100 ft., brick and rein.-con., plain foundation, 5th and Walnut Sts., to J. and F. Harig, 1240 Queen City Ave., $1,000,000. Noted Sept. 29.

Ind., Hammond—APARTMENT—F. C. Deming, general contract 3 story and basement, 83 x 100 ft., brick and steel, State Line and Ruth St., to R. C. Cenek, Gary. Archts. est. $165,000.

Mich., Detroit—STORE—Smith, Hinchman & Grylls, archts. and engrs., 800 Marquette Bldg., 8 story and basement, 40 x 150 ft., rein.-con., brick and steel, caisson foundation, to W. E. Wood Co., 1805 Ford Bldg. Noted Sept. 29.

Ill., Chicago — APARTMENT HOTEL — Lowenberg & Lowenberg, associated archts., 111 West Monroe St., masonry contract 21 story, 74 x 104 ft. brick, 101-109 East Delaware Pl., to Adolph Lindstrom Co., 77 West Washington St., plumbing, to H. Litvin, 3306 Armitage Ave., for Delaware Building Corp., c/o Klaber & Grunsfeld, archts. and part owner, 431 North Michigan Ave. Archts. est. $1,500,000. Noted July 7.

Ill., Chicago—APARTMENT and STORE—R. B. Cook, 3800 South Kedzie Ave., masonry contract 3 story, 150 x 170 ft., brick, 3727-39 Milwaukee Ave., to D. M. Reid, 140 South Dearborn St.; carpentry work, to L. Zweirs, 8033 Loomis St. Archts. est. $280,000.

Ill., Chicago — APARTMENT — R. R. Myers, 5509 Hyde Park Blvd., general contract 16 story, brick and Bedford stone, on 50 x 150 ft. site, 5522 Hyde Park Blvd., to Heggeman-Harris Corp., 431 North Michigan Ave. Archts. est. $550,000.

Ill., Chicago — APARTMENT — K. W. Vitzhum & Co., archts., 307 North Michigan Ave., general contract 14 story, 145 x 185 ft., brick and terra cotta, Sheridan Rd. and Surf St., to Callner Constr. Co., 134 North La Salle St., for Syndicate, c/o architects. Archts. est. $2,000,000.

Ill., Chicago — HOTEL and CLUB — Bryn Mawr Beach Building Corp., 5531 Sheridan Rd., masonry contract 19 story, 225 x 225 ft., brick, 5531-59 Sheridan Rd., to W. B. Ewer, 155 East Superior St. Archts. est. $4,050,000. Noted Sept. 22.

Wis., Stevens Point—HOSPITAL—St. Marys Convent, Marshfield, 4 story and basement, rein.-con., brick, stone and steel addition, plain foundation, here, to Hutter Constr. Co., Fond du Lac. $200,000, cost plus percentage basis. Noted July 28.

Tex., Dallas — OFFICE — Guardian Investment Co., c/o J. H. Burt, pres., Magnolia Bldg., 11 story, 50 x 100 ft. office building, Patterson and Ervay Sts., to Churchill-Humphreys Co., 207 Magnolia Bldg., $400,000.

Tex., Temple—HOTEL—F. Doering, 9 story and basement, brick, stone, steel and rein.-con., 4th and Central Sts., to C. L. Shaw, 767 Lamar St., Dallas, $250,000. Noted June 30.

Okla., Norman—INFIRMARY—State Bd. of Affairs, Oklahoma City 2 story and basement, rein.-con., brick and stone, here, to C. M. Dunning Constr. Co., 420½ North Hudson St., Oklahoma City, $124,000. Noted Sept. 1.

Okla., Supply — SERVICE — Western Oklahoma State Hospital, 2 story and basement, rein.-con., brick and stone, to Mann Co., Cotton Exch. Bldg., Oklahoma City, $162,400.

Nev., Reno—HOSPITAL—St. Marys Hospital Corp., c/o A. Caldwell, archt., 918 Harrison St. San Francisco, Calif., 3 and 4 story, rein.-con., hospital, to Barrett & Hilp, 918 Harrison St., San Francisco, Calif., approximately $250,000.

Wash., Seattle—BANK—Bank of California, Fidelity Bldg., Tacoma, 5 story and basement, 75 x 120 ft., rein.-con., marble and bronze, Pacific Ave., to J. E. Bonnell & Son, 827 North Tacoma St., Tacoma. Archts. est. $600,000.

Calif., Glendale—BANK and OFFICE—Pacific Southwest Trust & Savings Bank, c/o Dodd & Richards, archts., Black Bldg., Los Angeles, 6 story, 50 x 150 ft., terra cotta, steel and rein.-con., Brand Blvd. and Bway., to C. Thoren, 5613 West 4th St., Los Angeles, $340,000. Noted July 28.

Calif., Los Angeles—APARTMENT—C. E. Adams, 2404 11th Ave., 5 story and basement, 50 x 129 ft., plaster and art stone, 1236 North Edgemont St., to J. T. Payne, 426 Western Mutual Life Bldg., $150,000.

Calif., Oakland—CLUB—Miller & Warnecke, archts., 1404 Franklin St., 7 story and basement, brick and steel, to C. W. Heyer, Mills Bldg., San Francisco, for Women's City Club. $207,500. Noted Oct. 6.

Calif., Pasadena—THEATRE and OFFICE—F. B. Cole, 5 story, mezzanine, balcony and basement, 110 x 170 ft. theatre portion and 90 x 116 ft. office section steel and rein.-con., Colorado and Hudson Sts., to P. A. Palmer, 705 Insurance Exch. Bldg., Los Angeles, approximately $500,000.

Calif., Sacramento — WAREHOUSE — Zellerbach Paper Co., 534 Battery St., San Francisco, 3 story, rein.-con., Front St., to Barrett & Hilp, 918 Harrison St., San Francisco, approximately $150,000.

Calif., San Jose—HOTEL and STORE—Rendel Estate, c/o Binder & Curtis, archts., 3 story and basement, rein., South 1st St., to H. C. Jorgensen, 63 West Santa Clara St., $150,000. Noted May 26.

Ont., Niagara Falls — HOTEL — General Brock Hotel Co., A. L. Brooks, pres., 72 Main St. E., Welland, 11 story and basement, 139 x 205 ft., brick and steel, Ontario Rd., here, to Piggott & Healey Constr. Co., 36 James St. S., Hamilton. Archts. est. $1,000,000.

Buildings—Industrial

Proposed Work

N. J., Raritan—GAS FACTORY—International Combustion Eng. Corp., plans gas factory, north bank Raritan River. $50,000. Private plans.

Tenn., Johnson City — CREOSOTING PLANT—Tenn. Creosoting Co., (subsidiary Cook Tie & Pole Co., Commercial Terrace Bldg., Phila., Pa.), plans timber plant, incl. yard, tanks, etc.

Tenn., Memphis—LAUNDRY—A. Scharr, c/o Kraus Cleaners, Madison Ave., had plans prepared by Jones & Furbringer, Porter Bldg., 2 story, 126 x 240 ft., with L, 45,000 sq.ft. floor space, rein.-con. and brick, Linden Ave. $200,000 incl. equipment. Model Bluff City Laundry, 282 Poplar Ave., lessee.

O., Canton—INDUSTRIAL—Eng. Dept. Union Carbon & Carbide, 30 East 42nd St., New York City, takes bids about Oct. 15, oxygen plant, here, for Linde Air Products Co. (subsidiary of Union Carbon & Carbide, 30 East 42nd St., New York City).

O., Cleveland—ENGINE HOUSE and FAN ROOM—New York Central R.R., Co., A. C. Harvey, ch. engr., West 3rd St. and St. Clair Ave., had plans prepared by G. Herr, c/o owner, 1 story, 20 x 364 ft. engine house addition, and 30 x 30 ft. fan room, both brick, and steel, East 152nd St. To exceed $80,000.

O., Dayton — FACTORY — U. S. Corrugated Fiber Box Co., 1315 Martindale St., plans 3 story and basement, brick and rein.-con., Home Ave. $275,000.

O., Delphos — FACTORY — Brandt Bros. Furniture Co., Celina, having sketches made rebuilding factory, recently destroyed by fire, here. $200,000. Private plans.

Mich., Detroit—PAINT FACTORY—Boydell Bros. White Lead & Color Co., 432 East Lafayette St., having plans prepared by Halpin & Jewell, 1024 Hammond Bldg., 1 story, 40 x 45 ft., 40 x 75 ft., 47 x 100 ft. and 40 x 100 ft., also 2 story, 40 x 100 ft. factory buildings, and 30 x 40 ft. power house, rein.-con. and brick, plain foundations, East Lafayette Ave. Noted Sept. 8.

Ia., Ft. Dodge — HYDRO-ELECTRIC PLANT, etc.—Central States Light & Power Co., plans hydro-electric plant and dam on Des Moines River at Dolliver Park. $500,000. J. H. Leamy, Ft. Dodge, engr.

Mo., Marshall—AIR PLANT FACTORY—N. Blozley Airplane Co., R. Nicholas, pres., having plans prepared airplane factory, rein.-con. and steel factory. $50,000. Private plans.

Mo., North Kansas City — SUGAR REFINERY — Corn Products Refining Co., having plans prepared sugar refinery, rein.-con. $1,000,000. Private plans.

Texas — COLD STORAGE PLANTS — Central Power & Light Co., c/o Frost Bldg., San Antonio, having preliminary surveys made three 1 story, brick and concrete plants, one at Donna, $30,000 incl. machinery, one at Olmito $30,000, and other Sebastian $40,000. Private plans.

Tex., Alamo—COLD STORAGE PLANT—Central Power & Light Co., c/o F. O. Ludden, mgr., San Benito, and Frost Bldg., San Antonio, having preliminary surveys

Buildings—Industrial (Continued)

made 1 story, concrete and brick plant. $45,000. Private plans.

Tex., Brownsville — COLD STORAGE PLANT—Central Power & Light Co., c/o Frost Bldg., San Antonio, and F. C. Ludden, div. mgr. San Benito, making plans cold storage plant, brick and concrete, here. $40,000. Private plans.

Tex., Galveston — DAIRY — Galveston Model Dairy Co., 706 23rd St., made plans fireproof dairy. $45,000 incl. machinery. Private plans.

Tex., Harlingen — COLD STORAGE PLANT—Valley Electric & Ice Co. (subsidiary of Central Power & Light Co., c/o Frost Bldg., San Antonio), making preliminary plans cold storage plant, 100 car capacity. $60,000. Private plans.

Tex., Houston — FACTORY — J. Finger, archt., 422 Keystone Bldg., soon lets contract 3 story and basement, 119 x 210 ft., rein.-con., brick, tile and stone, Preston Ave. for C. W. Scott Mfg. Co., 701 Rusk Ave. $175,000. Noted Sept. 29.

Tex., McAllen — PACKING PLANTS — Tex. Citrus Growers Exch., Mission, c/o J. Sharry, pres., soon takes bids 1 story packing plant, here, and one in Weslaco. $75,000 each. Private plans.

Tex., Mission — PACKING PLANT — Texas Citrus Fruit Growers Assn., c/o J. Sharry, pres., purchased site and plans 1 story citrus and vegetable packing plant, brick, stone and concrete. $75,000. Private plans.

Tex., Nacogdoches—BRICK and TILE PLANT—A. W. O'Hare & F. R. Covert, Hamilton, plan large brick and tile plant. $300,000. Noted Aug. 11.

Tex., San Antonio—ICE PLANT—Alford Pure Milk & Ice Co., c/o R. W. Alford, c/o Phelps & DeWees, archts., 718 Gunter Bldg., having plans prepared 1 story, rein.-con., brick, hollow tile and stucco, plain foundation, Garden-Presa and Devine Sts. $125,000 incl. machinery.

Tex., Sweetwater—ICE and STORAGE PLANT—Citizens Ice Co., c/o G. Sample, mgr., plans 25 ton capacity ice plant and 100 ton capacity storage plant. $40,000. Work may be done by day labor. Private plans.

Tex., Texas City—LIGHT and POWER PLANT—Texas-Louisiana Power Co., Galveston, having preliminary plans and surveys made light and power plant here, $300,000; also transmission lines between Dickinson and League City and Texas City via San Leon to Clifton-by-the-Sea, $100,000. Private plans.

Tex., Victoria — PLANING MILL — Victoria Plaining Mill, c/o W. Sample, Victoria, having plans prepared 60 x 100 ft. concrete and timber mill. $40,000. Work may be done by day labor. Private plans.

Tex., Weslaco—PLANTS—Sinclair & Shane Co. had plans prepared and soon takes bids concrete, brick and tile, one here, and other Harlingen. $35,000-$45,000 each. Private plans.

Okla., Wagoner—LIGHT PLANT—Voted $57,000 bonds. electric light plant.

Okla., Wewoka—ICE PLANT—Shawnee Ice Co., c/o E. W. Hill, pres., having preliminary plans prepared addition, 75 to 150 tons p.d., also equipment. $85,000. Private plans.

Calif., Los Angeles—LAUNDRY—W. J. Saunders, archt., Laughlin Bldg., rejected bids 2 and 3 story (ultimately 6 story) 145 x 235 ft., steel and rein.-con., Highland and Willoughby Aves., for Community Laundry, c/o architect. Noted Oct. 6.

Bids Desired

Mass., Boston — MILL — See "Contracts Awarded."

N. Y., Harrison—TYPE FOUNDRY—Oct. 17, by Ballinger Co., archts., 100 East 42nd St., New York City, 15 story, 349 x 620 ft., rein.-con. and brick, plain foundation, here, for Intertype Corp., 1440 Bway., New York City. Noted Sept. 29.

N. Y., New York — LAUNDRY and POWER HOUSE—Oct. 17, by B. S. Coler, comr. Welfare, Municipal Bldg., altering and additions to laundry and power house, Lincoln Hospital, Concord Ave. and 141st St.

O., Cleveland — FACTORY — Champion Machine & Forging Co., L. W. Greve, pres., 3695 East 78th St., taking bids 1 story, 89 x 178 ft., brick and steel, 3695 East 78th St. $75,000. E. McGeorge, 3030 Euclid Ave., archt. and engr.

Ind., Indianapolis — FACTORY — See "Contracts Awarded."

Mich., Detroit—AUTO FACTORY—Motor Parts Corp., 11801 Mack Ave., taking bids 1 and 2 story, 140 x 425 ft., rein.-con. and brick, plain foundation, Mack Ave. $125,000. Smith, Hinchman & Grylls, 800 Marquette Bldg., archts.

Ill., Chicago—SOAP FACTORY, etc.—Oct. 19, by R. E. Pingrey & Co., 134 South La Salle St., 8 story and basement, 75 x 206 ft. soap factory, rein.-con. and brick, 4 story and basement, 56 x 110 ft., glycerine plant concrete, brick and steel, and 1 story and basement, 102 x 140 ft., tallow terminal, rein.-con., West North Ave. and Chicago River, for J. S. Kirk & Co., 1232 South La Salle St. $1,000,000.

Calif., Los Angeles—FACTORY—Adams Pipe Wks., 2025 Bay St. taking bids 2 story, 50 x 175 ft., concrete, Bay St.

Calif., San Francisco—PIPE SHOP—L. P. Hobart, archt., Crocker Bldg., taking bids 1 story, brick annex, Brannan and 2nd Sts., for Crane Co., 2nd and Brannan Sts. $40,000. T. Ronneberg, Crocker Bldg., engr.

Calif., San Francisco — SALES and TRUCK PLANT—Voorman Co., 470 Natoma St., taking bids 1 story, rein.-con., 5th and Folsom Sts. To exceed $40,000. R. S. Chew, Rialto Bldg., engr. General Motor Truck Co., 515 Van Ness Ave., lessee.

Bids Received

N. Y., New York—SHOPS—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., Sept. 30, buildings and shops at 207th Street Yard, from Eastern Constr. Co., 26 Court St., Brooklyn, $4,170,000 (unofficial). Noted Sept. 8.

Contracts Awarded

Mass., Boston—MILL—Maverick Mills, J. J. McElenroy, in charge, 144 Addison St., East Boston, will alter 1 story, 150 x 550 ft., rein.-con. and steel plain foundation, Addison St. Work will be done by separate contracts. Private plans.

Conn., Bridgeport—FACTORY—Remington Typewriter Co., Railroad Ave., 4 story, rein.-con. and brick addition, to J. Stewart & Co., Inc., 17 East 42nd St., New York City. Archts. est. $80,000.

Conn., Hartford—SERVICE—White Co., B. M. Hoden, 750 Main St., 1 story, 150 x 150 ft., rein.-con., brick and steel, Maple Ave., to Rutherford Constr. Co., 2725 Prospect St., Cleveland, O. Archts. est. $100,000. Noted Aug. 4.

Pa., McKees Rocks—PLANT—Hachmuster Lind Chemical Co., general contract 3 story and basement, 110 x 120 ft., rein.-con. brick and steel adition, to E. H. Dobson, Birmingham Ave., Avalon. Archts. est. $50,000.

Pa., Warren—GARAGE—R. K. Russell (Buick Motor Agency), general contract 3 story and basement, approximately 100 x 100 ft., rein.-con. and brick garage, to Rust Eng. Co., 311 Ross St., Pittsburgh. Archts. est. $100,000.

Tenn., Memphis—WAREHOUSE—Fly & Hobson Grocery Co., Linden Sta., 2 story and basement, 187 x 217 ft., rein.-con. and brick, plain foundatino, Florida St., to T. J. Ozanne & Co., 306 Empire Bldg. $154,000.

O., Mogadore — FACTORY — Mogadore Insulator Co., 1 and 2 story, 100 x 200 ft., steel, brick and concrete, to Harrop Ceramic Serv. Co., 310 West Broad St., Columbus, approximately $100,000.

Ind., Indianapolis—FACTORY—Advance Paint Co., 540 West Norwood St., 1 story brick and steel, 540 West Norwood St., to E. Newall, 1315 Mills St. Archts. est. $43,000.

Ind., Indianapolis — FACTORY — Insley Mfg. Co., 801 North Olney St., will build brick and steel factory, St. Clair and Olney Sts., by day labor. $45,000. Private plans. Noted June 2.

Mich., Battle Creek—FACTORY—Sanitarium Hospital Equipment Co., 2 story and basement, 82 x 150 ft., brick and steel, plain foundation, Washington Ave., to F. J. Skidmore, Battle Creek. Archts. est. $125,000. Noted Oct. 6.

Mich., Detroit—CEMENT STORAGE—Peerless Portland Cement Co., West Jackson Ave., six 2 story, 50 ft. diam, rein.-con. silos, concrete foundation, West Jefferson Ave., to MacDonald Eng. Co., 53 West Jackson Blvd., Chicago, Ill.

Mich., Pontiac—VARNISH FACTORY—Pontiac Varnish Co., Brush St., 2 story and part basement, rein.-con., brick and steel, plain foundation, Brush St., to Brasgalla Co., 9752 Cascade Ave., Detroit. Archts. est. $50,000.

Ia., Iowa City—HEATING PLANT—State Bd. Educ., State House, Des Moines, W. H. Gimmell, secy., general contract rein.-con. and brick heating plant addition, for college, here, to Preister Constr. Co., 910 Kahl Bldg., Davenport, $40,341. Noted Sept. 1.

Mo., St. Louis—LAUNDRY—O. J. Krieg, archts., 821 Wainwright Bldg., 2 story and basement, 50 x 91 ft., rein.-con., iron and steel addition, 1517 Clark Ave., to G. Moeller, 3520 Itaska St., for Holloran-Klaus Co., c/o P. J. Holloran, 1517 Clark Ave. Archts. est. $60,000. Noted Sept. 29.

Calif., Berkeley — FACTORY — Palmolive Peet Soap Co., 6th and Carlton Sts., 2 story, rein.-con., 6th and Carlton Sts., to P. J. Walker Co., Sharon Bldg., San Francisco, $150,000 or more.

Buildings—Educational, Religious

Proposed Work

Mass., Chicopee—SCHOOL—City, J. J. Desmond, supt. Schools, having sketches made by G. H. Fugere & Son, 121 Main St., Springfield, brick and stone, McKinstry and Chicopee Sts. $150,000 or more. Noted Aug. 25.

Mass., Medford (br. Boston)—HIGH SCHOOL—City, C. H. Lowell, School Building Comrs., takes bids about Oct. 15, 3 story and basement, 65 x 180 ft., and 65 x 240 ft., brick and stone addition, to Senior High School, plain foundation, Forest St. $600,000. R. D. Kimball & Co., 6 Beacon St., Boston, engrs. C. B. Dunham, 6 Beacon St. Boston, archt. Noted Sept. 22.

R. I., Providence—CHURCH—St. Pius Chapel, A. W. Sullivan, pastor, Eaton St., plans brick and stone church. $150,000. Engineer and architect not selected.

Conn., Hartford — CHEMISTRY LABORATORY—Trinity College Trustees, R. B. Ogilby, pres., having plans prepared by Trowbridge & Livingston, archts., 527 5th Ave., and H. C. Greenley, consult. archt., 129 East 54th St., New York City, chemistry laboratory. $350,000.

Conn., New Britain—CHURCH, etc.—First Congregational Church, T. Green, pastor, having plans prepared by W. F. Brook, Lewis and Gold Sts., Hartford, church $200,000, recreation building $190,000, parsonage $35,000, and school $20,000, all on West Main and Lexington Sts. Noted Feb. 3.

Conn., Waterbury — SCHOOL — City, School Bd., City Hall, having preliminary plans prepared by T. M. Freney, 51 Leavenworth St., 2 story and basement, brick and steel, rein.-con., plain foundation, Birch and Wall Sts. $150,000.

N. Y., Brooklyn—SCHOOL—Bd. Educ., 500 Park Ave., New York City, takes bids about Oct. 20, school, 15th Ave. and 81st St., here. $575,000. W. H. Gompert, Flatbush Ave. extension and Concord St., supt. school buildings.

N. J., Newark—HIGH SCHOOL—Bd. Educ., City Hall, Broad and Green Sts., having sketches made by Guilbert & Betelle, 20 Branford Pl., 3 story and basement, brick and steel addition, to West Side High School, plain foundation, South Orange Ave. $225,000.

Pa., Phila.—COLLEGE and HOSPITAL—W. E. Herring, pres., Hahnemann Medical College & Hospital, 15th and Race Sts., soon lets contract, 16 story, 123 x 150 ft., and 42 x 79 ft., rein.-con., steel and limestone, plain foundation, Broad and Race Sts. $2,000,000. Pettit & Ferris, 15 West 45th St., New York City, archts. Noted Sept. 29 under "Buildings-Commercial."

D. C., Wash.—CHURCH—Allen & Collins, archts., 75 Newbury St., Boston, Mass., takes bids about Oct. 15, general contract 1 and 3 story, sandstone, church and parish house, here, for Universalist Natl. Memorial Church. $1,000,000. Noted Sept. 1.

Tenn., Martin — COLLEGE — University of Tennessee, soon lets contract, for Home Economics and Science Buildings, on campus University of Tennessee Junior College, $200,000. Miller, Barber & McMurray, Knoxville, archts.

Ky., Louisville—MEMORIAL—University of Louisville plans John A. and Mary H. Crawford Memorial Building, on campus. $500,000 requested for same.

O., Cincinnati — SCHOOL — College of Sacred Heart, Lafayette Ave., having plans prepared by Fechheimer & Ihorst, Schmidt Bldg., 3 story and basement, brick and rein.-con. addition, plain foundation. $350,000.

O., Cleveland — CHAPEL and MONASTERY — Carmelite Sisters, c/o Mother Superior, 11127 St. Clair Ave., having plans prepared by M. C. Rousseau, Bulkley Bldg., 1 and 2 story, brick, 11127 St. Clair Ave. $150,000.

O., Cleveland Heights (Warrensville P. O.)—HIGH SCHOOL—Bd. Educ., W. G. Nesbit, dir., 1671 Lee Rd., Cleveland, having plans prepared by J. H. Graham &

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Buildings—Educational, Religious (Cont.)

Co., 1612 Euclid Ave., Cleveland, Junior High School, 2 story and basement, brick, steel and concrete, Yellowstone Rd., here.

O., Oakwood (Dayton P.O.)—SCHOOL—Bd. Educ. having plans prepared by Schenk & Williams, 3rd Natl. Bldg., Dayton, 2 story and basement, brick and rein.-con., plain foundation, Shafor Blvd. $200,000.

Ind., Ft. Wayne — SCHOOL — Lakeside Catholic Church, 132 East Berry St., had plans prepared by J. G. Steinbach, 155 North Clark St., 3 story and basement, 80 x 140 ft., rein.-con., brick steel and stone, Delaware and Kentucky Sts. $150,000.

Ind., Ft. Wayne—NURSES HOME—St. Josephs Hospital, 702 Bway., having preliminary plans prepared by Pohlmeyer & Pohlmeyer, 260 Central Bldg., 3 story and basement, 67 x 132 ft., rein.-con., brick and steel, Berry and Van Buren Sts. $150,000.

Mich., Grosse Pointe (br. Detroit)—SCHOOL—Detroit University School, 548 Parkview Ave., having plans prepared by R. O. Derrick, 120 Madison Ave., Detroit, 2 story and basement, 70 x 200 ft., brick and steel addition, plain foundation, Parkview Ave. $175,000.

Mich., Kalamazoo—SCHOOL—Bd. Educ., H. W. Anderson, bus. mgr., having plans prepared by E. S. Batterson, 2 story and basement, 65 x 200 ft., rein.-con., brick, steel and stone, plain foundation, East Ave. $300,000.

Mich., Keego Harbor — SCHOOL — Bd. Educ., C. Fellows, secy., Cass Lake, having plans prepared by R. O. Derrick, 707 Pontiac Savings Bank, Pontiac, 2 story and basement, rein.-con., brick and steel, plain foundation, here. $150,000.

Ill., Waukegan—NURSE'S HOME and HOSPITAL—H. J. Gaul, archt., 228 East Superior St., Chicago, soon lets contract, 6 story, 150 x 150 ft., T shaped, brick, steel and hollow tile, here, for Missionary Sisters of Holy Ghost, Techny. $1,000,000.

Kan., Dodge City—HIGH SCHOOL—Bd. Educ. takes bids in November, Senior High School, rein.-con., brick and stone. $300,000. Mann & Co., 721 Rorabough Wiley Bldg., Hutchinson, engrs.

Neb., Fremont — HOSPITAL — Missouri Synod Lutheran Congregation having plans prepared by H. C. Peterson, 425 Bankers Reserve Bldg., Omaha, 4 story and basement, 62 bed hospital, East Military Ave. $150,000.

Mo., Columbia — FIELD HOUSE — University of Missouri, c/o C. L. Brewer, dir. athletics, having preliminary plans prepared 1 story and part basement, 215 x 300 ft., rein.-con. and stone field house. $250,000.

Tex., Harlingen — SCHOOLS — Election Oct. 22, $400,000 bonds, constructing 2 brick and concrete high schools, and improving various schools, for Bd. Educ.

Okla., Dewey—CHURCH—First Christian Church having preliminary plans prepared 3 story and basement, rein.-con. and brick, plain foundation, 3rd St. $150,000.

Okla., Shawnee—HIGH SCHOOL—Bd. Educ. having preliminary plans prepared by A. C. Davis, Shawnee, Junior High School, 3 story and basement, rein.-con. and brick, plain foundation, Highland St. $200,000.

Calif., College City—HIGH SCHOOL—Pierce Joint Union High School Dist. defeated election $150,000 bonds, high school.

Calif., Glendale—HIGH SCHOOL—Glendale Bd. Educ. having plans prepared by A. F. Priest, 719 Fay Bldg., Los Angeles, group of buildings, incl. 3 story, 64 x 365 ft. administration building, 1 story, 76 x 290 ft. shop, also 90 x 175 ft. auditorium, 64 x 180 ft. science building, 64 x 215 ft. liberal arts building, 64 x 180 ft. economics building, all foregoing 2 story, 105 x 113 ft. each, girls and boys gymnasium buildings, 45 x 200 ft. bleachers, 2,200 seating capacity, athletic field, tennis courts, etc., on Glenwood Rd. High School Site. $1,200,000. Noted Oct. 6.

Calif., Los Angeles — UNIVERSITY—University of California having plans prepared by Allison & Allison, Hibernian Bldg., physics and biology building, approximately 100,000 sq.ft. floor space; and by G. W. Kelham, Sharon Bldg., San Francisco, chemistry and geology building, 55,000 sq.ft. floor space, both 3 story and basement, on Westwood Campus.

Calif., Los Angeles—MUSEUM—Supervs. Los Angeles Co., rejected bids Sept. 19, 3 and 4 story and basement, 150 x 500 ft., steel and rein.-con., Exposition Park. $1,250,000. Noted Aug. 25.

Bids Desired

Vt., Rutland—HIGH SCHOOL—Oct. 17, (extended date), by A. W. Perkins, mayor, City Hall, 3 story and basement, 20 x 215 ft., brick and stone, plain foundation, Church St. $300,000. A. G. Creighton, 140 State St., New London, Conn., archt. R. D. Kimball Co., 6 Beacon St., Boston, Mass., engrs. Noted Oct. 6.

Constr. News page 198

Conn., Storrs—COLLEGE—Oct. 25, by D. K. Perry, archt., 17 Court St., New Britain, 3 story and basement, rein.-con., brick and steel laboratory class room and administration building, here, for Connecticut Agriculture College, F. L. Salmon, comptroller. $334,000.

N. Y., New York—SCHOOL—Oct. 25, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 91, Aqueduct Ave., from Clinton Pl. to West 182nd St., Bronx Boro, for Bd. Educ., 500 Park Ave., New York City.

N. J., East Orange—SCHOOL—Oct. 17, by Bd. Educ., 19 Winos St., general contract 2 story and basement, 75 x 128 ft., brick and steel addition to Columbian School, plain foundation, North Grove St. $150,000. Guilbert & Betelle, 20 Branford Pl., Newark, archts.

Ind., Danville—SCHOOL—Oct. 27, by School Trustees 2 story and basement, rein.-con., brick and steel high and grade school, incl. auditorium and gymnasium. $150,000. McGuire & Shook, 941 North Meridian St., Indianapolis, archts.

Ind., Indianapolis—CHURCH and SUNDAY SCHOOL—Presbyterian Church, G. W. Allison, pastor, 254 South Ritter Ave., taking bids 1 story and basement, rein.-con., steel and stone, Johnson and Julian Aves. $160,000. Harrison & Turnock, 500 Bd. of Trade Bldg., archts.

Mich., Lincoln Park (mail Detroit)—SCHOOL—St. Henrys Parish, taking bids 2 story and part basement, 60 x 180 ft., rein.-con., brick and steel, plain foundation, Council Ave. $150,000. O'Dell & Diehl, 710 Donovan Bldg., Detroit, archts.

Wis., Kenosha—CHURCH and SUNDAY SCHOOL—Childs & Smith, archts., 720 North Michigan Ave., Chicago, Ill., taking bids 1 story, 60 x 140 ft. church, and 79 x 145 ft. sunday school, rein.-con., brick and stone, Congress and Prairie Sts., here, for Park Ave. Methodist Episcopal Church, 454 West St. $225,000. Noted Sept. 8.

Neb., Nebraska City—HIGH SCHOOL—Bd. Educ., F. Heller, secy., taking bids Junior High School, 3 story and basement, 108 x 126 ft., rein.-con., brick and stone. $150,000. J. H. Felt & Co., 300 West 47th St., Kansas City, Mo., archts. Noted Sept. 8.

Mo., St. Louis—SCHOOL—Oct. 18, by W. B. Ittner, Inc., archts., 911 Locust St., 4 story and basement, 80 x 216 ft., rein.-con., brick and steel addition, South Kingshighway, for Central Institute for Deaf, M. Goldstein, dir., 818 South Kingshighway. $250,000. Noted Sept. 29.

Contracts Awarded

R. I., Kingston — LIBRARY, GYMNASIUM, AUDITORIUM and ARMORY—Rhode Island State College, 1 and 2 story and basement, brick, plain foundation, incl. alumni gateway, to Central Eng. & Constr. Co., 210 Main St., Pawtucket. $254,898. Noted Sept. 8.

Pa., Lansdowne—HIGH SCHOOL—Bd. Educ., c/o F. S. Underhill, 112 North Broad St., Phila., Junior and Senior High School, 2 story and basement, 79 x 390 ft., and 119 x 127 ft., brick and steel, Green and Highland Sts., to J. McShane, 1713 Sansom St., Phila., $339,487. Noted Sept. 22.

N. C., Greenville—SCHOOL—East Carolina Teachers' College new dining room, kitchen, practice school, and remodeling two old dormitories, to J. & W. Hudson, Jr., Tarboro $218,900; new power plant and heating installation to Poe Piping & Heating Co., Greenville, S. C., $63,149. Noted Sept. 15.

Ga., Rome — SCHOOL — Berry School, general contract, two buildings from 1 to 5 story, stone, to Thompson-Starrett Co., 101 Mtta. St., Atlanta, $750,000. Noted Aug. 4.

Mich., Battle Creek — CHURCH — First Presbyterian Church, 2 story and basement, 83 x 127 ft., rein.-con., brick, steel and stone, plain foundation, to H. V. Snyder, Post Bldg., Archts. est. $200,000. Noted Sept. 15.

Mich., Birmingham — SCHOOL — Bd. Educ., general contract 2 story and basement, rein.-con., brick and steel, plain foundation, Chesterfield site, to N. A. Starr, 408 South Main St. Royal Oak, $199,000.

Mich., Detroit—HIGH SCHOOL—C. A. Gadd, bus. mgr. Bd. Educ., 1354 Bway. Ave., 3 story and basement, rein.-con., brick and steel, plain foundation, Hubbell and Chalfonte Aves., to Rosewarne, McNabb & Worswick, 333 State St., $554,000; electrical work, to Kuehne Electric Co., 510 Lightner Bldg., $41,188; and heating, to J. W. Partlan, 13900 Goddard Ave., $1 227. Grand total $713,415. Noted Sep

Okla., Tahlequah—TEACHERS TRA ING—State Bd. of Affairs, Capitol, O homa City 2 story and basement, 60 x ft., rein.-con. and brick, plain founda here to Muskogee Constr. Co., Musk $118,900. Noted Sept. 8.

Calif., Redlands — GYMNASIUM — U versity of Redlands will build 1 st 190 x 225 ft. rein.-con. and steel, by labor and sub-contracts under supervi G. P. Cortner, bus. mgr. $200,000. N. F. Marsh & Co., 1012 Bway. Central Bl Los Angeles, archts. Noted Oct. 6.

Ont., Bridgeburg — HIGH SCHOOL School Bd., general contract 3 story basement, 150 x 180 ft., brick, stone tile, Wintermute St., to Smith Bros., Ellen St., Niagara Falls, $122,600. Noted Mar. 10.

Federal Government Work

Proposed Work

Md., Annapolis—Dredging—Spec. 551—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans dredging at Naval Academy, here.

Bids Desired

N. H., Portsmouth—Remodeling—Oct. 26, by Treas. Dept., at Office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

N. Y., Yonkers — Elevator — Oct. 20, by Treas. Dept., at office Supervising Archt., Wash., D.C., elevator in U. S. Post Office, here.

Pa., Phila.—Changes—Oct. 25, by Treas. Dept., at office Supervising Archt., Wash., D. C., changes at U. S. Custom house, here.

D. C., Wash.—Superstructure—Nov. 7, at office Executive Officer Arlington Memorial Bridge Comn., Navy Bldg., constructing superstructure (exclusive of bascule draw span) Arlington Memorial Bridge; adv. E. N.-R. Oct. 13. Noted Feb. 11, 1926.

Tenn., Memphis—Refrigerating Plant—Oct. 25, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., refrigerating plant at U. S. Veterans hospital, here.

O., Cincinnati—Pontoons—Oct. 25, by U. S. Engineers Office steel pontoons and riveted steel pipe; adv. E. N.-R. Oct. 13.

Ind Terre Haute—Mail Lift—Oct. 27, by Treas. Dept., at office Supervising Archt., Wash., D. C., mail lift in U. S. Post Office, here.

Mich., Mt. Clemens—Sewerage system—Oct. 17, by Constructing Quartermaster, complete sanitary sewerage system for barracks, buildings, etc. Selfridge Field, here.

Mo., St. Louis—Mezzanine Floors—Oct. 20, by Treas. Dept., at office Supervising Archt., Wash., D. C., new mezzanine floors in work room. U. S. Post Office, here.

Ark., Hot Springs — Steam Distribution Lines — Nov. 3, at office Constructing Quartermaster, Army and Navy General Hospital, Hot Springs Natl. Park, outside steam distribution lines.

Tex., El Paso—Mezzanine—Oct. 24, by Treas. Dept., at office Supervising Archt., Wash., D. C., mezzanine floor at U. S. Post Office, here.

Colorado—Road—Oct. 26, by J. W. Johnson, engr. Bureau Pub. Rds., 301 Custom House, Denver, grading, 4.3 mi. Sect. 1, Delores-Rico Natl. Forest Road Project. Montezuma Co.

Wash., Puget Sound—Motor Generator Sets—Spec. 5447—Oct. 26, by Bureau Yards & Docks, Navy Dept., Wash., D. C., motor generator sets, at Navy Yard, here. Noted Oct. 6.

Bids Received

N. D., Jamestown—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C. U. S. Post Office, here, from J. Lauritzen Co., Fergus Falls, Minn., $152,979. This corrects report in Oct. 6 issue.

Mo., Boonville—Current Retards—U. S. Engineer Office, 707 Postal Telegraph Bldg., Kansas City, Oct. 3, constructing 600 lin.ft current retards on Missouri River across chute in Franklin Island Bend, point 1 mi from here, from Woods Bros. Co., 132 South 13th St., Lincoln, Neb., $31,500.

Ore., Astoria—Wharf—Treas. Dept., at office Supervising Archt., Wash., D. C., repairing wharf at Quarantine Station, here, from Gilpin Constr. Co., Astoria, $4,100. Noted Sept. 15.

Federal Government Work (Continued)

Contracts Awarded

Pa., Johnstown — Remodeling — Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling mailing platform, etc. at U. S. Post Office, here, to T. W. Cissel, Bethlehem, $4,800. Noted Sept. 29.

D. C., Wash.—Elevators—Treas. Dept., at office Supervising Archt., Wash., D. C., extending 4 electric elevators and 2 new elevators in Liberty Loan Bldg., to Haughton Elevator & Machine Co., Vermont Bldg., $8,000 and $12,790 respectively. Noted Sept. 29.

D. C., Wash.—Power Plant and Heating Building—Bureau Standards, power and heating building, to A. L. Smith & Co., 2525 Penn. Ave., $157,200. Noted Sept. 29.

Fla., Pensacola—Concrete Fire Wall—Spec. 5456—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete fire wall at Naval Air Station, here, to A. D. Rieger & Co., Box 1836, Sarasota, $8,332. Noted Oct. 6.

Miss., Gulfport—Roads and Walks—U. S. Veterans Hospital, Arlington Bldg., Wash., D. C., roads and walks at U. S. Veterans Hospital, here, to Powers Constr. Co., Box 314, $13,594. Noted Sept. 29.

Tenn., Memphis—Shops—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., addition to main building, new shops, etc., at U. S. Veterans Hospital, here, to Batson-Cook Co., West Point, Ga., $72,700. Noted Sept. 22.

Ky., Louisville—Hospital Improvements —Treas. Dept., at office Supervising Archt., Wash., D. C., improving Marine Hospital, here, to Heady Building & Constr. Co., 1145 East St. Catherine St., Louisville, $4,000. Noted Sept. 29.

New Mexico—Road—J. W. Johnson, dist. engr. Bureau Pub. Rds., Custom House, Denver, Colo., grading 6.61 mi. Glenwood-Alma Sect., Datil Reserve-Dry Creek Natl. Forest Road Project, Catron Co., to S. Jack Heather & Skousen Bros., Lordsburg, $124,949. Noted Aug. 11.

Utah — Road — B. J. Finch, 403 Kiosel Bldg., Ogden, grading Sects. 1 and 2 East River Road Project in Zion Natl. Park, Washington Co., to Nevada Contg. Co., Fallon, Nev., $607,058. Noted Sept. 15.

Ore., Portland—Stone—U. S. Engineer Office stone for north and south jetties, to Hansen Constr. Co., Portland, $615,000. Noted Aug. 25.

Unclassified

Proposed Work

Airport—Northampton, Mass.—Syndicate, c/o W. E. Arthur, engr. and archt., 292 Madison Ave., New York City, making plans hangar, etc., here. $150,000.

Airport—Bridgeport, Conn. — Syndicate, c/o W. E. Arthur, engr. and archt., 292 Madison Ave., New York City, making plans hangar, etc., here. $300,000.

Arena — Hartford, Conn. — Owner, c/o Funk & Wilcox Co., archts., 26 Pemberton Sq., Boston, Mass., having plans prepared 200 x 300 ft., rein.-con. arena, 8,000 seating capacity, Wethersfield Ave. and Alden St., here. Archts. est. to exceed $150,000.

Athletic Field — Red Bank, N. J. — Bd. Educ., Town Hall, having sketches made athletic field. $40,000. W. Van Kueren, Broad St., Red Bank, engr. Noted July 7.

Coke Ovens—Muskegon, Mich.—Utilities Eng. Co. had plans prepared 1 story, 20 oven, concrete and steel, plain foundation. R. H. Watkins, Muskegon, engr.

Oil Pipe Line—Texas—Transcontinental Oil Co., N. Wright Bldg., Tulsa, Okla., (subsidiary of Standard Oil Co. of New Jersey, 26 Bway., New York City, N. Y.) making plans 300 mi. probably 10 in. oil pipe line from Pecos Co. Fields (near McCamey) to Houston, here. $8,500,000. Private plans.

Transmission Line — Texas — Western Pub. Serv. Co., 72 West Adams St., Chicago, Ill., made surveys 24 mi. transmission line from La Marque to Alvin, here. $60,000. C. R. Goodman, in charge preliminary work. Private plans.

Transmission Lines—Texas—See "Buildings—Industrial, under Texas City, Tex."

Swimming Pool—Harlingen, Tex.—C. H. Lockhart plans rein.-con. swimming pool on 3½ acre site. $35,000. Engineer not selected.

Gas Mains — Palestine, Tex. — Palestine Heat, Light & Power Co., c/o J. V. Murdaugh, mgr., making plans extending 6 and 8 in. gas mains in various streets. $13,000 (material, pipe). Private plans.

Land Development—San Antonio, Tex.—Avalon Development Co., c/o B. C. Lucas, pres., 206 Jefferson St., making plans developing 1,600 acre tract, incl. macadamized roads, golf course, etc., at Medina Lake, 30 mi. west of here. Private plans.

Oil Pipe Line—Oklahoma—Texas Co., Mercantile Bldg., Oklahoma City, J. W. Williams, secy., made plans 30 mi. oil pipe line from Seminole to Stewart pumping station. $100,000. Private plans.

Transmission Line—Oklahoma—City of Purcell made preliminary plans 17 mi. 13,200 volt transmission line between Purcell and Washington; also distribution system in Washington. $30,000. Horner & Wyatt, 468 Bd. Trade Bldg., Kansas City, Mo., engrs.

Transmission Line—Oklahoma—City of Purcell made preliminary plans 16 mi. 13,200 volt transmission line between Purcell and Wayne; also distribution system in Wayne. $25,000. Horner & Wyatt, 468 Bd. Trade Bldg., Kansas City, Mo., engrs.

Telephone System—Colorado—Mountain States Telephone & Telegraph Co., c/o C. T. Hopkins, mgr., 112 West D. St., making surveys 220 mi. telephone cables from Pueblo to Holly. R. E. Young, 1st Natl. Bank Bldg., Denver, engr.

Piers — Seattle, Wash. — Chicago, Milwaukee & St. Paul Ry. Co., R. J. Middleton, asst. ch. engr., Seattle, making plans 480 ft. extension ocean liner pier, giving terminal docking space of 1,154 ft., with 180 ft. waterway, here. $500,000.

Standpipe Casing—Seattle, Wash.—City Council plans expending $50,000, masonry casing around Woodland Park standpipe.

Municipal Airport — Berkeley, Calif. — City making estimates grading and filling municipal airport, main runway approximately 2,000 ft. long, 200 ft. wide. $50,000 or more. J. N. Edy, city mgr.

Encampment Quarters—San Luis Obispo, Calif.—State Building Comn., Sacramento, having plans prepared by G. B. McDougall, Forum Bldg., Sacramento, permanent encampment quarters, incl. hospital, warehouses, etc. for California National Guard, here. $300,000.

Grandstands—Hamilton, Ont.—Hamilton Athletic Club, D. Chilman, secy., plans rebuilding steel and frame grandstands, Athletic Grounds, recently destroyed by fire. $80,000 loss.

Bids Desired

Station Finish—New York—Oct. 24, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, station finish work on Montrose Ave., Wilson Ave., Bushwick Ave. and Aberdeen St. Stations, 14th St.-Eastern Rapid Transit R.R., Brooklyn and Queens Boros.

Road Improvements—New York, N. Y.—Oct. 18, by Park Bd., W. R. Herrick, pres. Dept. Parks, Arsenal Bldg., Central Park, removing loose rock and facing rock cuts with rein.-con. wall in Central Park transverse roads.

Steam Heating, etc. — Phila., Pa. — See "Waterworks."

Lighting System—Buckhannon, W. Va.—See "Streets and Roads."

Pipe Line — Garber, Okla. — See "Contracts Awarded."

Floating Drydock—Oakland, Calif.—See "Contracts Awarded."

Contracts Awarded

Piers—Boston, Mass.—Dept. Pub. Wks., repairing piers at North and South Ferries, to W. H. Ellis Co., 479 Meridian St., East Boston, $22,620.

Shelter — Cambridge (Boston P. O.), **Mass.**—City, J. J. Terry, supt., 1 story and concrete shelter house, Corporal Burns Playground, to M. W. Ryan, 763 Massachusetts Ave., $22,750. Engrs. est. $25,000.

Subway—Brooklyn, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, constructing Sect. 1, Route 109, Rapid Transit R.R., here, to Carleton Co., Inc., 151 West 42nd St., New York City, $3,758,993. Noted Sept. 8.

Steel Cells—Freehold, N. J.—Bd. Freeholders Monmouth Co., steel cells in jail, to Van Doorn Iron Wks., 2585 East 79th St., Cleveland, O., $42,500.

Train Shed — Pittsburgh, Pa. — Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad St. Sta., Phila., general contract seven 1 story, temporary train sheds and platforms at east end present sheds, Pennsylvania Station, here, to John F. Casey Co., Aspinwall. Engrs. est. $40,000.

See proposal advertising on page 161

Grade Separation — Wyandotte, Mich. — Curbing and 12,900 sq.yd. 12 in. and 4,165 sq.yd. 9 in. concrete paving in connection with Eureka Ave. Grade Separation, to Bishop & Weir, 6451 East Six Mile Rd., Detroit, $55,702. Noted Mar. 3.

Guard Rail and Anchors — Iowa — See "Streets and Roads."

Turbo-Generator, etc. — Helena, Ark.—Arkansas Utilities Co., power plant improvements, incl. 2,000 kw. turbo-generator, to Westinghouse Electric & Mfg., Co., 2311 State St., Little Rock; 600 hp. water tube boiler, to Walsh & Weidner, Co., Main and Sycamore Sts., Chattanooga, Tenn.; switchboard additions, superheaters and Beaumont coal and ash handling equipment, to General Electric Co., Southern Trust Bldg., Little Rock. Engrs. est. $200,000.

Pipe Line—Garber, Okla.—Deer Creek Pipe Line Corp., Ponca City (subsidiary of Gannett, Seelye & Fleming, Inc., 600 North 2nd St., Harrisburg, Pa.), will build 6 in. pipe line connecting with distribution system, by own forces. $65,000. Private plans.

Telephone System — Pueblo, Colo. — Mountain States Telephone & Telegraph Co., c/o C. T. Hopkins, mgr., 112 West D. St., will install telephone cables in various streets, by day labor. $75,000. R. E. Young, 1st Natl. Bank Bldg., Denver, engr.

Lighting System — Compton, Calif. — Ornamental lighting system on Long Beach Blvd., to F. Ziebarth, Farmers & Merchants Bank Bldg., Long Beach, $53,145. Noted Sept. 28.

Floating Drydock—Oakland, Calif.—General Eng. & Drydock Co., 1100 Sansome St., San Francisco, will build floating drydock, 15,000 tons, by day labor.

Wharf—St. Simon, Que.—Dominion Govt. constructing wharf, to J. W. McMames Co. Ltd., Memramcook, N. B., $25,245.

Concrete Apron —Timiskaming, Ont.—Dominion Govt., Ottawa, concrete apron adjoining Ontario sluices of Timiskaming Dam, to Farley & Grant, Hazeldean, $54,997.

Tunnel—Vancouver, B. C.—For 2½ mi. 13 x 3 ft., power tunnel, at Bridge River, to Pacific Engineers, Ltd., 827 Powell St., $1,249,530. Engrs. est. $2,000,000. Noted Sept. 15.

Materials

Proposed Work

Gas Pipe—Cooper, Tex.—Community Gas Co. (City), plans purchasing gas pipe for mains in various streets. $10,000. Noted Sept. 8 under "Unclassified."

Water Pipe — Rio Hondo, Tex. — City plans purchasing approximately 5,000 ft. 6 and 8 in. Class "B" c.i. pipe. $12,500. Address C. A. Mellernee, Rio Hondo, supt. Waterworks and engr. Noted Sept. 29 under "Waterworks."

Bids Desired

Pipe, etc.—Muskegon, Mich.—Oct. 21, by I. L. Christiansen, city clk., 12,200 ft. 6- to 12-in. standard vitr and 6,100 ft. 15- to 36-in. d.s. No. 1 Ohio salt glazed pipe. $16,000; 6,444 ft. 6 in. c.i. Class "B" A.W.W.A. or Class 150 De Lavaud pipe, 8 tons pig lead, etc. $14,000. H. J. Lewis, City Hall, engr.

Structural Steel—Chicago, Ill.—Oct. 18, by City, Room 406, City Hall, 225 tons structural steel, incl. railings, walkway gratings, etc., by rail or truck, at May Fair Pumping Station, 4850 Wilson Ave., for Dept. Pub. Wks. R. W. Wolfe, comr.

Water Softener—Pauls Valley, Okla.—Mayor and City Comn. in market mechanical water softener for water plant.

Lighting Posts, etc.—Sallisaw, Okla.—Bd. Comrs. Street Dept. in market 30 "White Way" posts and standards, also 4,000 ft. armored cable.

Bids Received

Pipe—Monrovia, Calif.—1,800 ft. 4 in. standard screw dipped pipe with recess couplings, from Kelly Pipe & Mchy. Co., 524 Mission Rd., Los Angeles, at $0.47 per 100 lb.

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Sewers—Wyandotte, Mich.

Bids were opened by City, June 21, (lowest three and highest) for installing sewers in Special Assessment District No. 76, from (A) Oakwood Constr. Co., Oakwood Blvd., (awarded contract); (B) E. L. Gedney & Sons, Inc.; (C) J. E. Mercier Co.; (D) E. A. Campbell. Contractors all of Detroit. The unit bids are as follows:

	A	B	C	D
28,692 ft. 12 in. sewer	$1.15	$1.13	$1.22	$1.24
6,683 ft. 15 in. sewer	1.57	1.61	1.58	1.66
9,764 ft. 18 in. sewer	2.08	2.25	2.05	2.19
9,707 ft. 21 in. sewer	2.58	2.79	2.65	2.81
5,434 ft. 24 in. sewer	3.26	3.58	3.78	4.00
1,588 ft. 27 in. sewer	3.30	3.91	4.90	4.60
1,552 ft. 30 in. sewer	4.60	4.24	5.30	6.00
4,069 ft. 36 in. sewer	5.55	5.39	7.55	7.00
1,524 ft. 42 in. sewer	6.70	6.63	9.60	8.00
1,920 ft. 48 in. sewer	9.90	8.15	9.80	10.30
2,526 ft. 60 in. sewer	13.00	15.78	13.45	15.00
549 ft. 66 in. sewer	16.25	18.02	16.00	18.00
1,360 ft. 6 ft. 6 in. sewer	20.00	24.63	19.75	26.00
214 manholes, complete	100.00	80.00	100.00	130.00
Pumping station, West Shore Line and Alkali (lump sum)	4,500.00	4,000.00	2,500.00	4,700.00
Pumping station Beverly Ave., (lump sum)	3,000.00	5,000.00	2,500.00	2,300.00
Totals	$269,746	$282,652	$289,256	$313,327

Engineering News-Record, Issue of October 13, 1927.

Water Works—Oxford, Md.

Bids were opened by Town Commissioners, Sept. 21, (lowest three) for laying water mains, from (A) W. G. Fritz Co., 69 Main St., West Orange, N. J.; (awarded contract); (B) A. Munday, Plainfield, N. J.; (C) Scott Bros., Easton. Contract for installing the pumping equipment was awarded to the Virginia Machinery & Well Co., 1319 East Main St., Richmond, Va., $1650; for the tank and tower, to the Petroleum Iron Works Co., 25 West 43rd St., New York City, $6310. The unit bids for laying the mains are as follows:

	A	B	C
5,025 ft. excav., backfilling and laying 8-in. pipe and fittings	$0.45	$0.50	$0.50
9,300 ft. 6-in. pipe	.37	.35	.49
Setting fire hydrants (lump sum)	8.00	15.00	1.50
100 topping and installing corporation cocks, etc.	1.50	.75	.75
100 setting curb boxes	1.00	.30	.60
1,050 ft. excav., backfilling and laying 2-in. pipe and fittings	.30	.30	.35
3,000 ft. 1½- and 2-in. pipe, galvanized, precaulked	.30	.30	.33
2,000 ft. ¾-in. service pipe	.25	.25	.40
20 sections timber foundations	11.00	6.00	3.00
50 cu.yd. extra excav.	2.00	1.00	1.00
Well chamber (lump sum)	105.00	75.00	150.00
Totals	$8,421	$8,447	$9,683

Engineering News-Record, Issue of October 13, 1927.

Transit Extension—Boston, Mass.

Bids were opened by Transit Department, 1 Beacon St., Aug. 31, for extension of rapid transit system, Sect. No. 3, from (A) C. R. Construction Co., 75 Bradeen St., Roslindale, (awarded contract); (B) Joseph A. Singarella, 110 High St.; (C) Coleman Bros., Inc., 245 State St.; (D) M. F. Gaddis, 6 Beacon St.; (E) A. G. Tomasello & Son, Inc., 250 Stuart St.; (F) J. H. Fannon, 39 Powder House Terrace, Somerville; (G) J. McCourt Co., 910 Huntington Ave.; (H) J. C. Coleman & Sons Co., 1620 Tremont St. The unit bids are as follows:

	A	B	C	D	E	F	G	H
20,000 cu.yd. earth excav.	$0.80	$1.60	$2.00	$1.25	$1.10	$2.50	$1.65	$2.50
500 cu.yd. rock excav.	.80	7.00	4.00	7.00	5.00	5.00	6.00	2.50
35,000 cu.yd. gravel borrow	.80	1.40	1.60	1.20	1.00	1.75	1.65	2.00
1,500 cu.yd. masonry removed	.80	5.00	16.00	7.00	5.00	8.00	5.00	10.00
9,000 cu.yd. concrete (rein.)	20.50	18.50	19.00	22.00	20.00	18.00	23.00	20.00
1,000 cu.yd. concrete (unrein.)	20.50	18.00	13.00	21.00	15.00	18.00	23.00	16.00
200 cu.yd. small stone concrete	30.00	20.00	27.00	22.00	20.00	21.00	28.00	20.00
1,000 cu.yd. cinder concrete	5.00	6.00	7.00	8.00	10.00	12.00	12.00	18.00
150 cu.yd. mortar	30.00	30.00	20.00	22.00	30.00	20.00	28.00	20.00
4,000 sq.yd. concrete finish	.10	.45	.40	.25	.50	.40	.25	.75
100 sq.yd. granolithic finish	2.00	3.50	1.00	1.00	1.00	1.00	1.50	2.00
500 sq.yd. granolithic walks	3.00	4.50	2.75	3.60	3.00	3.00	4.00	3.00
150 cu.yd. brick masonry	30.00	30.00	40.00	50.00	40.00	40.00	40.00	50.00
3,000 lin.ft. 4 in.–6 in.–8 in. vitrified pipe	.80	.75	.75	1.00	1.00	.80	1.00	1.00
1,000 lin.ft. 10 in.–12 in. vitrified pipe	1.00	1.00	1.00	1.50	1.10	1.25	2.00	2.00
300 lin.ft. 15 in.–24 in. vitrified pipe	3.00	3.00	2.00	3.00	2.00	3.00	3.00	3.00
450 tons reinforcing rods, etc.	83.00	85.00	85.00	90.00	100.00	90.00	100.00	80.00
850 tons structural steel	25.00	30.00	30.00	15.00	25.00	30.00	40.00	30.00
25,000 sq.ft. wire cloth	.10	.10	.09	.12	.10	.10	.15	.15
100 sq.yd. plaster	.90	2.00	1.00	.50	2.00	1.00	1.00	1.00
50 cu.yd. grout, 1–1½	5.00	40.00	20.00	10.00	25.00	25.00	20.00	25.00
50 cu.yd. grout, 1–4	5.00	40.00	15.00	10.00	20.00	18.00	10.00	20.00
7,500 sq.yd. waterproofing	.60	1.00	.80	.50	.75	.75	1.00	.75
Incidental work, risks, supporting structures, etc., (lump sum)	15,000.00	10,000.00	2,000.00	100.00	500.00	5,000.00	16,000.00	25,000.00
Removing Peabody Square bridge timbers and flooring (lump sum)	11,000.00	5,000.00	2,000.00	1,500.00	2,000.00	1,000.00	10.000,00	5,000.00
10,000 sq.yd. wall finish rubbing	.40	.90	.70	.50	1.00	.80	.50	1.00
31,000 lin.ft. conduit lines, 1 to 12 ducts	.25	.40	.50	.30	.50	.50	.40	1.00
8 power manholes, Type I	200.00	200.00	225.00	200.00	200.00	200.00	250.00	200.00
2 power manholes, Type II	300.00	200.00	300.00	400.00	200.00	225.00	250.00	300.00
Signal manhole with signal foundation Type III	250.00	250.00	250.00	250.00	200.00	250.00	250.00	300.00
10 signal foundations, Type IV	100.00	50.00	70.00	60.00	50.00	75.00	100.00	200.00
3 signal foundations, Type V	100.00	50.00	80.00	60.00	100.00	75.00	100.00	250.00
3 signal and power manholes, Type VI	25.00	350.00	225.00	40.00	100.00	250.00	50.00	200.00
100 sq.yd. granite block gutters	5.00	7.00	5.00	6.00	4.00	5.00	6.00	4.50
100 lin.ft. granite edgestone	2.00	2.50	1.70	3.00	3.00	2.00	3.00	2.50
200 lin.ft. resetting edgestone	.50	.75	.50	.50	1.00	.75	.60	.75
Preparing site (lump sum)	15,000.00	5,000.00	1,000.00	30,000.00	40,000.00	5,000.00	10,000.00	10,000.00
Time to complete, days	300	350	300	365	365	400	350	300
Totals	$401,565	$429,425	$441,710	$444,000	$444,625	$455,450	$519,570	$537,475

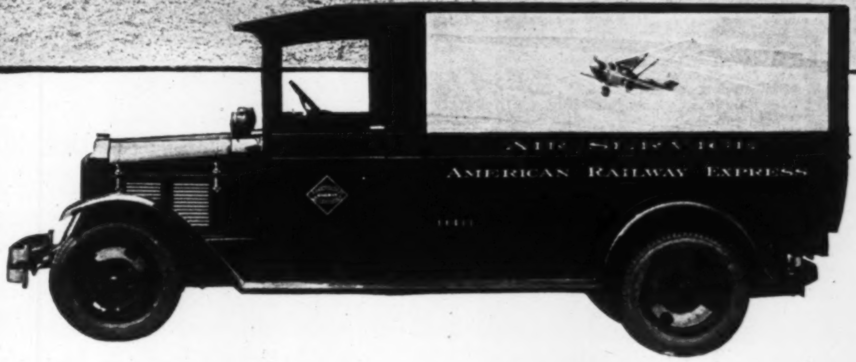
Engineering News-Record, Issue of October 13, 1927.

UNIT PRICES *Continued on page 200a*

A PROMISE has been fulfilled! The American Railway Express Company recently inaugurated a transcontinental air service for express shipments. New York and San Francisco are connected by aerial express on a 32½ hour schedule.

Another promise is being fulfilled. At the terminals, collections and deliveries are being handled in Diamond T trucks equipped with Hercules Engines. Chosen for known reliability, speed, economy, and utmost endurance, there will be no failure of power supply. And Hercules four-cylinder or six-cylinder engines or power units, on any commercial or industrial job inevitably outperform any comparable power.

HERCULES MOTORS CORPORATION, Canton, Ohio



Hercules

ENGINES

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Installation of Tracks—New York

Bids were opened by Board of Transportation, 49 Lafayette St., Sept. 9, for installation of tracks for parts of 14th Street-Eastern Line, Route 8, Sects. 6-A-1, 6-E-2 and 6-F, (Brooklyn and Queens Boroughs) from (A) McElroy & Kerwin, 187 Joralemon St., Brooklyn, (awarded contract); (B) B. T. and J. J. Mack, Inc.; (C) Thomas Crimmins Contg. Co. The unit bids are as follows:

	A	B	C
100 cu.yd. excavation	$5.00	$3.50	$6.00
1,025 cu.yd. fill in place	1.50	1.00	.50
4,500 cu.yd. 1:2:3.85 conc. masonry in place	14.50	18.00	18.50
1,725 sq.ft. rubbing surface of concrete	.15	.35	.06
180 sq.ft. waterproofing, one ply	1.25	2.50	1.50
25 cu.yd. waterproofing brick laid in asphalt	50.00	50.00	70.00
3,300 duct.ft. tunnel ducts	.22	.50	.30
3,200 duct.ft. railroad ducts	.41	.50	.50
16 ton riveted steel, erected and painted	97.00	100.00	80.00
2 ton steel rods built in conc	150.00	130.00	180.00
1 ton furnishing and installing cast iron handhole frames and covers and grating in place, complete	250.00	220.00	250.00
Street surface restored in Bushwick Avenue as follows:			
135 sq.yd. (a) curb lines	.70	5.00	4.00
600 sq.yd. (b) asphalt pavement between curb lines	6.00	7.00	6.50
11,200 sq.ft. constructing and finishing station platform	.30	.30	.55
250 lin.ft. 1-in. electric conduits wrought iron or steel	.50	.75	.60
5 conduit fittings with removable covers in place, complete	1.00	2.50	2.00
10 C. I. outlet boxes including covers in place, complete (4x4x2)	2.00	2.50	2.00
3 C. I. pull boxes, including covers in place, complete	7.00	2.50	2.00
358 lin.ft. removal of surface track, etc. Montrose Ave. bet. sta. 1+10 and 4+68, complete	11.25	12.50	6.25
Removal of ramp track stru., complete (lump sum)	5,700.00	4,000.00	10,800.00
2,000 lb. checkered steel plate doors and frames with appurtenances for tunnel duct manholes in place, complete	.22	.35	.25
550 lin.ft. relocation of electric street surface railroad, incl. all incident work	4.60	5.00	7.00
Removal and relocation of gas pipes, as follows:			
175 lin.ft. (a) 4 in	2.00	5.00	3.50
100 lin.ft. (b) 20 in	15.00	15.00	12.00
900 lin ft. platform edge construction, complete, in place	.90	3.50	.35
900 lin.ft. furnishing, delivering and installing W.I. pipe handrail complete	1.80	1.75	1.80
18 M.F.B.M. installing plank walks, complete	40.00	50.00	50.00
Furnishing and installing anti-creepers, complete, as follows:			
570 (a) type III track	.50	.40	.30
3,360 (b) type II track	.40	.40	.30
Installation of type II track, exclusive of concrete, as follows:			
7,500 lin.ft. (a) tan. and curves of 2,300 ft. radius and over	2.10	2.25	2.00
2,400 lin.ft. (b) curves of 700 ft. radius and over and less than 2,300 ft. radius	3.40	2.80	4.25
1,600 lin.ft. (c) curves of less than 700 ft. radius	4.25	3.25	4.50
275 lin.ft. removal of pit track and substitution of type II track in Montrose Ave. sta., complete	3.25	12.00	3.30
Installation of type III, complete, as follows:			
855 lin.ft. (a) Tan. and curves (not superel.) of more than 2,300 ft. radius and over	2.40	5.00	4.00
910 lin.ft. (b) curves of 700 ft. radius and over and less than 2,300 ft. radius	3.75	6.00	6.00
240 lin.ft. (c) superelevated tangents and curves of more than 2,300 tf. radius	4.50	6.50	6.00
Removal and disposal of temp. wooden floors, partitions, etc. (lump sum)	200.00	1,000.00	250.00
2,100 lin.ft. furnishing, delivering and installing 100 lb. rail for inside guard and emergency rails, complete with appurtenances	.90	.53	1.25
Totals	$139,951	$165,476	$171,468

Engineering News-Record, Issue of October 13, 1927.

Bridge—Huntington, Mass.

Bids were opened by Department of Public Work, Division of Highways, Boston, Aug. 9, (lowest three) for constructing bridge and approaches in town of Huntington, from (A) Adams & Ruxton Constr. Co., Springfield, (awarded contract); (B) C. B. Lindholm, Pittsfield; (C) Engineering Service & Constr. Co., Boston. The unit bids are as follows:

	A	B	C
13,000 cu.yd. roadway earth excav	$0.75	$1.00	$0.75
950 cu.yd. bridge excav	4.25	5.00	5.00
80 cu.yd. ledge excav	5.00	5.00	3.00
231 cu.yd. plain conc. masonry	20.00	22.00	26.30
275 cu.yd. reinf. conc. masonry	25.00	26.00	29.00
225 gal. bituminous material, asphalt	.25	.20	.50
100 lin.ft. 12 in. rein. conc. pipe	1.75	1.50	1.50
100 lin.ft. fencing	.75	.70	.65
900 cu.yd. stone filling	2.25	2.50	2.50
17 bounds	5.00	5.00	5.00
100 ton bituminous conc. surfacing, Type D.	14.00	15.00	12.00
100 cu.yd. rip rap	2.75	2.50	4.00
15 removal trees	15.00	10.00	10.00
600 cu.yd. gravel borrow	.85	1.00	1.15
160 cu.yd. stripping gravel pits	.20	.20	.20
950 cu.yd. gravel surfacing	1.25	2.00	.15
30 cu.yd. conc. masonry for bridge floor	80.00	.....	100.00
1,275 cu.yd. rubble conc. masonry	12.25	14.00	15.50
660 lin.ft. stock fence	.25	.25	.35
2 rounds rem. and reset	7.00	5.00	5.00
18 MFBM lumber sheeting	90.00	.01	150.00
3,400 lin.ft. reform and trim shoulders	.05	.10	.05
73,500 lb. reinf. conc. str	.05	.05	.055
450 gal. asphalt for bridge floor	.50	.50	.50
75 cu.yd. dry rubble masonry	7.00	8.00	6.00
1,000 lin.ft. cable guard rail	.75	1.00	.90
50 cu.yd. trench excav	2.50	1.00	1.25
580,000 lb. structural steel	.068	.062	.064
6 scuppers with outlets	30.00	30.00	55.00
Totals	$97,336	$97,449	$104,900

Engineering News-Record, Issue of October 13, 1927.

Irrigation—Lovelock, Nev.

Bids were opened by Lovelock Irrigation District for constructing dam, earth fill and control works, from (A) A. G. Pollock, Forum Bldg., Sacramento, Calif.; (B) W. A. Bechtel Co.; (C) Utah Constr. Co.; (D) MacDonald & Kahn; last three contractors of San Francisco. The unit bids are as follows:

	A	B	C	D
400 yd. 3,500 lb. conc	$25.00	$25.00	$27.00	$26.80
10,000 yd. 2,500 lb. conc	20.00	22.60	24.00	25.10
150 yd. 1,500 lb. conc	30.00	22.00	24.00	24.60
18,000 sq.yd. Laykold	2.75	2.90	2.90	2.55
6,000 sq.yd. conc. material	6.25	7.00	7.00	6.15
350,000 cu.yd. fill, dry, placed, roll and fill method	.42	.555	.65	.91
450,000 cu.yd. fill by suction dredge and method using river bottom materials	.36	....	...	...
50,000 cu.yd. cut	.40	.70	.75	1.00
90,000 cu.yd. clay	.50	.75	.75	1.00
4 emergency gates, ea	1,000.00	750.00	600.00	2,460.00
42,000 lb. place gates	.10	.05	.04	.038
5,200 ft. outlet pipe	12.00	12.80	11.00	11.00
1,360 lb. trash racks	.15	.125	.12	.185
30,000 ft. steel pile	2.40	2.00	2.00	2.70
1,360 ft. conc. pile	3.00	6.00	5.00	5.00
6,000 ft. gravel drain	.75	1.00	.60	.77
2,000 ft. tile drain	.50	1.25	.50	.77
100 ladder rungs	1.00	1.00	.50	.92
1 flash board (lump sum)	500.00	1,100.00	600.00	835.00
Bronze tablet (lump sum)	200.00	100.00	250.00	90.00
Totals Contr. No. 1	$610,524	$720,186	$763,363	....
Totals Contr. No. 2	$621,024	....	....	....
Totals Contr. No. 7	....	....	....	$919,094

Contract No. 1—Dry placed, roll and wet method with clay mixing facing, payment in cash.

Contract No. 2—Same as No. 1, except main body of fill to be placed by suction dredge using river bottom materials, payment in cash.

Contract No. 7—Same as No. 1 except contractor shall purchase entire issue of bonds for cash in the amount of $1,287,000 and payment for performance of contract to be made by the District in cash.

Engineering News-Record, Issue of October 13, 1927.

Constr. News pags 200a

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Roads, Detroit, Mich. Wayne Co. making preliminary plans paving, $7,000,000.

Garage and office, San Francisco, Calif., F. C. Morgan having plans prepared; $4,750,000.

Oil refinery, San Antonio, Tex., Humble Oil and Refining Co. plans, $3,000,000.

Highway, Plainview, Tex., Hall Co. making plans, $2,405,000.

Apartment Hotel, Minneapolis, Minn., Anderson-Nelson Constr. Co. having plans prepared, $2,100,000.

Auto factory, Pontiac, Mich., Oakland Motor Car Co., having plans prepared, $2,000,000.

Bridge, Kansas City, Mo., Kansas City, St. Louis and San Francisco Ry. Co., Kansas City Southern Ry. Co. and Missouri Pacific Ry. Co. plan viaduct, $1,900,000.

Bank and office, Vancouver, B. C., Royal Bank of Canada plans, $1,500,000-$2,000,000.

Boulevard, Los Angeles, Calif., City and Los Angeles Co., plan, $1,564,191.

Highway, Centerville, Tex., Leon Co., making plans, $1,514,317.

Amusement resort, Matamoros, Mexico, R. J. Allison and G. Olivares, plan resort, $1,500,000.

Office, Phila., Pa., Maxwell Building Corp., having plans prepared, $1,500,000.

Schools, Port Arthur, Tex., voted bonds, $1,500,000.

Apartment, Chicago, Ill., C. E. Howland having preliminary sketches made, $1,300,000.

Auditorium, Pasadena, Calif., City plans, $1,000,000.

Apartment, Chicago, Ill., Quinn & Christensen, archts. soon take bids, $1,000,000.

Sewer, Decatur, Ill., making plans, $1,000,000.

Bids Desired

Bridge, Pittsburgh, Pa., Oct. 26, by Comrs. Allegheny Co., Dept. Pub. Wks., $1,700,000.

Y.W.C.A. Building, Chicago, Ill., Oct. 21, by Berlin & Sewern, archts., $1,000,000.

Museum, Los Angeles, Calif., Oct. 31, by Supervs. Los Angeles Co., Unit 2, Museum of History, Art, and Science, to exceed $1,000,000. Contracts for foundations to Clinton Constr. Co., excavating to C. G. Willis & Son, and structural steel to McClintic-Marshall Co.

Contracts Awarded

Bridge, New York and New Jersey, Port of New York Authority wire cable to John A. Roebling Sons' Co., Trenton, N. J., $12,339,977; steel towers and floors to McClintic-Marshall Co., Pittsburgh, Pa., $10,134,440.

Hotel, Toronto, Canada, Canadian Pacific Ry. general contract to Anglin Norcross Ltd., wrecking existing structures to Frankel Bros., excavation to Dufferin Constr. Co. Total est. $10,000,000.

Sewers, Decatur, Ill., Sanitary District of Chicago Contract 1, to Paschen Bros., $3,333,444.

Sewers, St. Louis, Mo., Bd. Pub. Serv. to A. Guthrie & Co., Inc., St. Paul, Minn., $2,296,057.

Can factory, Jersey City, N. J., American Can Co., New York City, will build by day labor, $2,000,000.

Church and hotel, San Francisco, Calif., Methodist Book Concern to Cahill Bros., $2,000,000.

Public safety building, Milwaukee, Wis., Dept. Pub. Wks., excavation, foundation, etc. to Bentley Bros. $644,630; roof, stone, steel etc. to Uihlein & Ortmann, Elect. Co., Andres Stone & Marble Co., Sissel Co., Wensel & Henoch, Zuchlke-Stoehn Heating Co. Grand total $1,223,251.

Dredging, Los Angeles, Calif., U. S. Engineer Office to San Francisco Bridge Co., San Francisco, $1,133,000.

Office, Birmingham, Ala., Warren, Knight and Davis, archts., to C. M. Allen & Son, $1,000,000.

Sugar Refinery, North Kansas City, Mo., Corn Products Refining Co., Kansas City, to Bedford Constr. Co., Chicago, Ill. Archts. est. $1,000,000.

Classified Index of Bids Wanted

Waterworks

Bids close		*See Eng. News-Record*
Oct. 21	Phoenicia, N. Y.	Oct. 20
	Adv. Oct. 13 and 20.	
Oct. 25	St. Louis, Mo.	Sept. 29
Oct. 25	St. George, N. Y.	Oct. 20
Oct. 25	Long Island City, N. Y.	Oct. 20
Oct. 26	Parkersburg, W. Va.	Oct. 6
Oct. 26	Parkersburg, W. Va.	Oct. 13
Oct. 26	Denville, N. J.	Oct. 13
	Adv. Oct. 6 to 20.	
Oct. 26	Huron, S. D.	Oct. 20
Oct. 27	Sacramento, Calif.	Oct. 20
Oct. 28	Brooklyn, N. Y.	Oct. 20
Oct. 31	Skillman, N. J.	Oct. 13
Oct. 31	Vancouver, B. C.	Oct. 20
Nov. 1	St. Louis, Mo.	Oct. 13
Nov. 1	Orange, Calif.	Oct. 20
Nov. 2	Wingdale, N. Y.	Oct. 20
	Adv. Oct. 20.	
Nov. 4	Wewoka, Ia.	Oct. 20
Nov. 14	Ashland, Ky.	Oct. 13
	Adv. Oct. 13 and 20.	
Nov. 18	Boston, Mass.	Oct. 20
	Adv. Oct. 13 and 20.	
Dec. 2	New Orleans, La.	Oct. 20
	Adv. Oct. 13 and 20.	

Sewers

Bids close		*See Eng. News-Record*
Oct. 21	Harrisburg, Pa.	Oct. 20
Oct. 21	Boston, Mass.	Oct. 20
Oct. 21	Corning, Ark.	Oct. 20
Oct. 24	Mamaroneck, N. Y.	Oct. 6
	Adv. Oct. 6 to 20.	
Oct. 24	Dayton, O.	Oct. 20
Oct. 24	Albany, N. Y.	Oct. 20
Oct. 25	Chicago, Ill.	Oct. 20
Oct. 26	Phila., Pa.	Oct. 20
Oct. 26	Brooklyn, N. Y.	Oct. 20
Oct. 26	Long Island City, N. Y.	Oct. 20
Oct. 27	Boston, Mass.	Oct. 20
Oct. 27	Rush Springs, Okla.	Oct. 20
Oct. 31	Dayton, O.	Sept. 29
Oct. 31	Freeport, N. Y.	Oct. 20
	Adv. Oct. 20.	
Nov. 1	Birmingham, Ala.	Oct. 6
Nov. 3	Northampton, Pa.	Oct. 20
	Adv. Oct. 13 and 20.	
Nov. 4	Wewoka, Ia.	Oct. 20
Nov. 10	Akron, O.	Oct. 20
	Adv. Oct. 13 and 20.	
Nov. 15	Delphos, O.	Sept. 15
Nov. 17	Louisville, Ky.	Oct. 20
	Adv. Oct. 13 and 20.	
Nov. 20	Canton, O.	Sept. 8

Waste Disposal

Nov. 10	Richmond, Va.	Oct. 6

Bridges

Oct. 24	Oklahoma	Oct. 13
Oct. 24	Oklahoma City, Okla.	Oct. 20
Oct. 26	Pittsburgh, Pa.	Oct. 13
Oct. 26	Lisco, Neb.	Oct. 20
Oct. 26	Illinois	Oct. 20
Oct. 26	Pittsburgh, Pa.	Oct. 20
Oct. 27	Michigan	Oct. 13
Oct. 27	New Brunswick, N. J.	Oct. 13
Oct. 28	Ocean City, N. J.	Oct. 13
Oct. 28	Ohio	Oct. 20
Oct. 31	Buffalo, N. Y.	Sept. 29
Oct. 31	California	Oct. 20
Nov. 3	Chicago, Ill.	Sept. 29
	Adv. Oct. 13 and 20.	
Nov. 3	New Orleans, La.	Oct. 20
	Adv. Oct. 13 and 20.	
Nov. 4	New York and Pennsylvania	Oct. 20
	Adv. Oct. 20.	
Nov. 7	Virginia	Oct. 20
Nov. 15	Anderson, Ind.	Oct. 20
Nov. 15	Coushatta, La.	Oct. 20

Dams

Oct. 31	Los Angeles, Calif.	Oct. 13

Railways

Feb. 21	New Zealand	Oct. 20
	Adv. Oct. 20.	

Excavation, Drainage, Irrigation, Levees, River and Harbor

Bids close		*See Eng. News-Record*
Oct. 24	Huntington, Tenn.	Oct. 20
Nov. 1	Richvale, Calif.	Oct. 20
Nov. 1	Sanford, Fla.	Oct. 13
Nov. 2	Illinois	Oct. 13
	Adv. Oct. 6 to 20.	
Nov. 3	Louisiana	Oct. 6
Nov. 4	Piper City, Ill.	Oct. 20
Nov. 4	Jamaica, Ill.	Oct. 20
Nov. 4	Illinois	Oct. 20

Streets and Roads

Oct. 24	Michigan	Sept. 29
Oct. 24	Michigan	Oct. 13
Oct. 24	Inverness, Fla.	Oct. 20
Oct. 24	Long Island City, N. Y.	Oct. 20
Oct. 24	Phila., Pa.	Oct. 20
Oct. 24	El Reno, Okla.	Oct. 20
Oct. 24	Albany, N. Y.	Oct. 20
Oct. 25	Frederick, Okla.	Oct. 20
Oct. 25	South Carolina	Oct. 13
Oct. 25	Washington	Oct. 6
Oct. 25	Hutchinson, Kan.	Oct. 6
Oct. 25	Maryland	Oct. 20
Oct. 25	Hollywood, Fla.	Oct. 20
Oct. 25	Buffalo, N. Y.	Oct. 20
Oct. 25	Boston, Mass.	Oct. 20
Oct. 26	San Benito, Tex.	Oct. 13
Oct. 26	Pittsburgh, Pa.	Oct. 13
Oct. 26	Nevada	Oct. 20
Oct. 26	Brooklyn, N. Y.	Oct. 20
Oct. 26	Illinois	Oct. 20
Oct. 28	Nebraska	Oct. 13
Oct. 28	Kentucky	Oct. 6
Oct. 28	Eagles Mere, Pa.	Oct. 20
Oct. 28	Nebraska	Oct. 20
Oct. 28	Ohio	Oct. 20
Oct. 31	Galveston, Tex.	Oct. 20
Nov. 1	Ventura, Calif.	Oct. 20
Nov. 1	Birmingham, Ala.	Oct. 6
Nov. 1	Birmingham, Ala.	Oct. 13
Nov. 1	Washington	Oct. 20
Nov. 2	New Orleans, La.	Oct. 13
Nov. 2	Michigan	Oct. 20

See proposal advertising on page 124

TRADE "LEADITE" MARK

Registered U. S. Pat. Office

Even under the most rigorous conditions of service Leadite proves its efficiency

—where a line is subjected to constant vibration the joints must be tight and remain tight

In installing the 12" bell and spigot bridge line illustrated here the element of constant vibration was a serious consideration.

Leadite was used for jointing and has given perfect satisfaction throughout the 5½ years since this Bridge Line was installed—working pressure approximately 105 lbs. per sq. in.

This water department has laid many miles of cast iron water mains with Leadite joints—sizes 6" to 30"—pressures ranging from 40 pounds to 170 pounds per square inch. They say their experience with Leadite has been extremely satisfactory. Their experience with Leadite extends over 20 years.

The ease with which Leadite can be used is another consideration with waterworks engineers in making their specifications for unusual and difficult installations, as well as for general work.

The speed of jointing with Leadite is of great importance to Contractors in helping them complete their work promptly. From experience they know how much time they can save by using Leadite.

Everywhere waterworks engineers specify and use Leadite for the satisfaction it gives, its safety, security and economy.

Twelve-inch c. i. bell and spigot water main —Bridge Line—over 500 feet long—subject to severe vibration—carrying approximately 105 lbs. pressure per square inch.

Specify and use LEADITE It saves at least 75%

Be sure it is LEADITE and accept no imitations

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Bids close		See Eng. News-Record
Nov. 2	Baton Rouge, La.	Oct. 20
Nov. 3	New Orleans, La.	Oct. 13
Nov. 3	Michigan	Oct. 20
Nov. 8	Washington	Oct. 20
Nov. 9	Paris, Ark.	Oct. 6
Nov. 10	Birmingham, Ala.	Oct. 20
Nov. 10	Lawrence, N. Y. Adv. Oct. 20.	Oct. 20

Buildings—Commercial

Oct. 21	Paterson, N. J.	Oct. 20
Oct. 22	New Haven, Conn.	Oct. 20
Oct. 24	Tulsa, Okla.	Oct. 13
Oct. 24	Brookline (br. Boston), Mass.	Oct. 20
Oct. 25	Muskogee, Okla.	Oct. 13
Oct. 25	Rockville Center, N. Y.	Oct. 13
Oct. 25	Elizabethtown, Pa.	Oct. 20
Oct. 26	Binghamton, N. Y.	Oct. 13
Oct. 26	Baltimore, Md.	Oct 20
Oct. 26	West New Brighton, N. Y.	Oct. 20
Oct. 28	Seattle, Wash.	Oct. 13
Oct. 30	Brooklyn, N. Y.	Oct. 20
Oct. 31	Vancouver, B. C.	Oct. 6
Nov. 1	Cincinnati, O.	Oct. 20

Buildings Industrial

Oct. 24	Dayton, O.	Oct. 20
Oct. 28	New York, N. Y.	Oct. 20

Buildings—Educational, Religious

Oct. 22	Fall River, Mass.	Oct. 20
Oct. 25	New York, N. Y.	Oct. 13
Oct. 25	Storrs, Conn.	Oct. 13
Oct. 25	Indianapolis, Ind.	Oct. 20
Oct. 26	Los Angeles, Calif.	Oct. 20
Oct. 26	Warwick, R. I.	Oct. 20
Oct. 27	South Norfolk (mail Norfolk), Va.	Oct. 20
Oct. 28	Danville, Ind.	Oct. 20
Oct. 28	Indianapolis, Ind.	Oct. 20
Oct. 31	Los Angeles, Calif.	Oct. 20
Nov. 1	Wash., D. C.	Oct. 20
Nov. 1	Baltimore, Md.	Oct. 20
Nov. 7	Columbus, O.	Oct. 20
Nov. 7	Brooklyn, N. Y.	Oct. 20
Nov. 9	Shreveport, La.	Oct. 20
Nov. 15	Seattle, Wash.	Oct. 20
Dec. 1	Mt. Clemens, Mich.	Oct. 20

Federal Government Work

Bids close		See Eng. News-Record
Oct. 21	Elevator—Portsmouth, N. H.	Oct. 6
Oct. 21	Dredging—Pennsylvania	Sept. 29
Oct. 22	Barracks—Ft. Sam Houston (sta. San Antonio), Tex. Adv. Sept. 29 to Oct. 20.	Sept. 29
Oct. 24	Mezzanine Floor—El Paso, Tex.	Oct. 13
Oct. 25	Changes—Phila., Pa.	Oct. 13
Oct. 25	Refrigerating Plant—Memphis, Tenn.	Oct. 13
Oct. 25	Earthwork, etc.—Salt Lake City, Utah	Sept. 22
Oct. 26	Pontoons—Cincinnati, O. Adv. Oct. 6 to 20.	Oct. 13
Oct. 26	Motor Generator Sets—Puget Sound, Wash.	Oct. 13
Oct. 26	Remodeling—Portsmouth, N. H.	Oct. 13
Oct. 26	Road—Colorado	Oct. 13
Oct. 26	Standpipe—Dover, N. J. Adv. Oct. 13 and 20.	Oct. 20
Oct. 26	Motor Generator Sets—New York, N. Y. Adv. Oct. 13 and 20.	Oct. 20
Oct. 26	Dredging—Annapolis, Md.	Oct. 20
Oct. 26	Flooring—Norfolk, Va.	Oct. 20
Oct. 26	Metal Work—Brooklyn, N. Y.	Oct. 20
Oct. 26	Wharf—Iona Island, N. Y.	Oct. 20
Oct. 27	Lift—Terre Haute, Ind.	Oct. 13
Oct. 31	Dredging—New York Adv. Oct. 20.	Oct. 20
Nov. 2	Power System, etc.—Governors Island, N. Y.	Oct. 20
Nov. 3	Steam Distribution Lines—Hot Springs, Ark.	Oct. 13
Nov. 3	Barracks—Camp Devens, Mass. Adv. Oct. 20.	Oct. 20
Nov. 7	Superstructure—Wash., D. C. Adv. Oct. 6 to 20.	Oct. 13
Nov. 8	Laundry, etc.—Maywood, Ill.	Oct. 20
Nov. 10	Lodge, Jeffersonville, Ind.	Oct. 20
Nov. 15	Quarters—Montgomery, Ala. Adv. Oct. 20.	Oct. 20
Nov. 16	Quarters—San Juan, Porto Rico Adv. Oct. 20.	Oct. 20
Nov. 21	Garage—New York, N. Y.	Oct. 20
Nov. 22	Dredging—New Haven, Conn. Adv. Oct. 20.	Oct. 20
Nov. 23	Refrigerating Plant—Pearl Harbor, T. H.	Oct. 6
Nov. 23	Generating Plant Equipment—Pearl Harbor, T. H.	Sept. 22
Nov. 23	Barracks, etc.—Pearl Harbor, T. H.	Sept. 22
Mar. 20	Road—California	Oct. 20
Apr. 10	Road—California	Oct. 20
Apr. 10	Roads—Wyoming	Oct. 20
Apr. 10	Road—Colorado	Oct. 20
Apr. 11	Roads—Wyoming	Oct. 20
Apr. 12	Roads—Wyoming	Oct. 20
Apr. 17	Roads—Arizona	Oct. 20
May 2	Road—Oregon	Oct. 20
May 2	Roads—Montana	Oct. 20
May 3	Roads—Washington	Oct. 20
May 4	Roads—Washington	Oct. 20

Unclassified

Oct. 24	Station Finish — New York	Oct. 13
Oct. 25	Heating, etc.—Beacon, N. Y. Adv. Oct. 13 and 20.	Oct. 20
Oct. 25	Subsidiary Pipe—New York, N. Y.	Oct. 20
Oct. 25	Steamship, Phila., Pa.	Oct. 20
Oct. 26	Heating, etc.—Wingdale, N. Y. Adv. Sept. 29 to Oct. 20.	Sept. 29
Oct. 26	Heating, etc.—Creedmoor (mail Floral Park), N. Y. Adv. Sept. 29 to Oct. 20.	Sept. 29
Oct. 27	Station Finish—Phila., Pa.	Oct. 20
Oct. 31	Borings—New Jersey Adv. Oct. 20.	Oct. 20
Oct. 31	Underpass—Louisville, Ky.	Oct. 20
Nov. 1	Culverts—Ventura, Calif.	Oct. 20
Nov. 1	Electric Generator—Comstock, N. Y. Adv. Oct. 13 and 20.	Oct. 20
Nov. 2	Exit Facilities, etc.—Brooklyn, N. Y. Adv. Oct. 13 and 20.	Oct. 20
Nov. 2	Electrical Work, etc.—New York, N. Y. Adv. Oct. 13 and 20.	Oct. 20
Nov. 7	Mechanical Equipment—Brooklyn, N. Y.	Oct. 20

Materials

Oct. 21	Pipe—Muskegon, Mich.	Oct. 13
Oct. 26	Reinforcing Steel and Piling—Leon, Ia.	Oct. 20
Nov. 2	Bridge Lumber—Atlantic, Ia.	Oct. 20

News of the Week

Waterworks

Proposed Work

Va., Broadway—Made preliminary plans waterworks and sewerage systems. Election in January $96,000 bonds for same. Amer. Industrial Eng. Co., 90 West St., New York City, engrs.

Ga., Atlanta—Voted $258,000 bonds, extending Hemphill plant, 30 m.g.p.d. additional capacity, incl. 16 and 36 in. mains, pump house, etc. W. Z. Smith, City Hall, engr.

Tenn., Old Hickory—Dupontania Water Co., E. M. Elliott, pres., 2028 1st Ave., Birmingham, Ala., plans expending $75,000, extending mains to various industrial subdivisions, here.

Tenn., Old Hickory—Old Hickory Water Co., C. M. Harvey pres., plans expending $25,000, extending mains to various subdivisions.

Mich., Pontiac—Making plans extending 6 and 8 in. c.i. mains, etc., in South Park Dist. $18,000. J. R. Pollock, city engr.

Mo., Ironton—City Clerk takes bids about Oct. 28, 100,000 gal. concrete reservoir, 28,225 ft. 4 to 8 in. c.i. mains, 30 gate valves, deep well pumphouse, plunger type pump, 37 fire hydrants, etc. W. A. Fuller Co., 1912 Ry. Exch. Bldg., St. Louis, engrs. Noted Sept. 8.

Ark., Hot Springs National Park—See "Sewers."

Tex., Cuero—Making plans waterworks improvements, incl. 8 in. main, distributing system, elevated tank, etc. $32,000 bonds voted for same. Terrell Bartlett Engineers, Calcasieu Bldg., San Antonio, engrs.

Tex., Pyote—F. T. Pickrell and associates, plan waterworks, incl. probably tank, tower, pumping unit and distributing system. $30,000.

Okla., Hobart—Defeated $17,000 bonds, waterworks. Benham Eng. Co., 521 Gumbel Bldg., Kansas City, Mo., engrs. Noted Aug. 18.

Okla., Talihina—Making plans new impounding reservoir and 14,000 ft. 8 in. c.i. gravity flow line. $60,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted Oct. 6.

Bids Desired

Mass., Boston — Nov. 18, at office Metropolitan Dist. Water Supply Comn., 24 School St., 14 mi. tunnel and appurtenances in towns West Boylston, Holden, Rutland, Oakham and Barre. F. E. Winsor, ch. engr.; adv. E. N.-R. Oct. 20.

> *THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.*
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> *Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.*

N. Y., Brooklyn — Oct. 28, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Gerritsen Ave., here.

N. Y., Long Island City—Oct. 25, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 19th, 18th, 48th, 50th, 21st, 32nd, 34th Aves., Smedley, 123rd, 124th, Austin and Gray Sts., etc., here.

N. Y., Phoenicia—Oct. 21, by Phoenicia Water Dist., at office F. D. Lord, secy., 336 tons 4- to 8-in. Class "B" c.i. pipe, etc. J. F. Loughran, Kingston, civil engr.; adv. E. N.-R. Oct. 20.

N. Y., Richmond — Oct. 25, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Arden, Bache, Beach View, Burbank, Central, Churchill, Cuba, Delafield Aves., etc., here.

N. Y., Wingdale—Nov. 2, at Dept. Mental Hygiene, Albany, repairing existing filter plant at Harlem Valley State Hospital, here. L. M. Farrington, secy.; adv. E. N.-R. Oct. 20.

La., New Orleans — Dec. 2 (extended date), by Sewerage & Water Bd., 526 Carondelet St., constructing waterworks, sewerage and drainage during 1928. Work to be done on percentage basis. G. G. Earle, genl. supt.; adv. E. N.-R. Oct. 13 and 20. Noted Oct. 6.

S. D., Huron—Oct. 26, by M. F. Walt, city aud., constructing and equipping filter plant, also outside piping and intake. $75,000. L. P. Wolff, Globe Bldg., St. Paul, Minn., engr.

Okla., Wewoka — Nov. 4, by D. R. Fraser, city clk., one 60,000 gal. and one 500,000 gal. steel tank on tower, 2 m.g. filter plant, two 1,000 g.p.m. pumps and motors, 11,290 ft. 8- to 12-in. mains, etc., in various streets. $125,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Sept. 1.

Calif., Burlingame—J. R. Murphy, city clk., taking bids trenching and laying 6- to 16-in. c.i. mains in various streets. Noted June 9.

Calif., Orange—Nov. 1, by C. D. Lester, city clk., drilling 700 ft. well, 20 in. in diam. at water plant.

Calif., Sacramento—Oct. 27, by H. W. Hall, clk. Sacramento Co., redwood tank, approximately 25,000 gal. capacity on tower already in place. C. Deterding, Sacramento, co. engr.

B. C., Vancouver — Oct. 31, by E. A. Cleveland, engr., 500 Beatty St., 19,230 ft.

Waterworks (Continued)

20- to 32-in. steel pipe, etc. for Greater Vancouver Water Dist. $70,000.

Contracts Awarded

O., Cleveland—Cuyahoga Co., 13,500 ft. 6, 8 and 12 in. c.i. main in Bradley Rd., Impvt., 1257, to D. M. Zullo, 10614 Frank Ave., $499,695, and 20,000 ft. main in Cook Rd., Hamlin St., etc., Impvt. 1452, to E. P. Langehan Constr. Co., Marshall Bldg., $74,362.

O., Cleveland—Cuyahoga Co., 8,500 ft. 6, 8 and 12 in. c.i. mains in Hall, Walter and Florence Rds., to Union Constr. Co., 1426 East 81st St., $27,718. Noted Sept. 22.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., 40 m.g. steam turbine driven centrifugal pump at Riverside Pumping Station, to De Laval Steam Turbine Co., Peoples Gas Bldg., Chicago, Ill., $57,500.

Kan., Irving—Waterworks improvement, to R. Knox Constr. Co., Clifton, $20,640. Noted Oct. 13.

Ark., Little Rock—Arkansas Water Co., 425 West 5th St., 12 m.g. booster pump, to Worthington Pump Corp., 115 Bway., New York City; and 2.5 m.g. concrete reservoir, to Arkansas Texas Constr. Co. Engrs. est. $125,000.

Okla., Cordell — Waterworks improvements, to Webster Constr. Co., 1st Natl. Bank Bldg., Oklahoma City, $21,400. Noted Aug. 18.

Calif., El Segundo—V. D. McCarthy, city clk., 23,200 ft. 4- to 10-in. Class "B" B. & S. c.i. pipe, etc., to Pacific States C. I. Pipe Co., 417 South Hill St., Los Angeles, $10,937; 3,100 ft. 2 in. galvanized pipe, to Grinnell Co., 520 Mateo St., Los Angeles, $603; laying pipe in various streets, will be done by city forces under supervision R. T. Hutchins, city engr. Noted Sept. 8.

Calif., Vallejo—A. E. Edgcumbe, city clk., repairing spillway at Lake Curry, Napa Co. in connection with municipal water works, to J. F. Collins, 107 West Maple St., Stockton, $36,310. Noted Oct. 6.

B. C., Vancouver—Greater Vancouver Water Dist., five 18 in., five 24 in., two 32 ft., two 36 ft., one 48 in., one 60 and one 72 in. gate valves also 4 in. air valve, to Vancouver Mchy. Depot Ltd., 1155-6th Ave. W., $15,178; ninety-eight 4- to 12-in. gate valves, to Terminal City Iron Wks., 1949 Albert St., $3,311; and 4,500 ft. 18 plain spigot and faucet c.i. pipe 1¼ in. thick, to Seith, Murray & Co., 510 Hastings St. W., $25,193. Grand total, $43,682.

Sewers

Proposed Work

Mass., Cambridge (br. Boston)—City, J. J. Terry, supt. Pub. Buildings, City Hall, rejected bids Sept. 23, 1 story, rein.-con. offal receiving station, Raymond St. $65,000. Will readvertise. Blackall, Clapp & Whittemore, 31 West St., Boston, archts. Noted Sept. 15.

Va., Broadway—See "Waterworks."

La., DeQuincy—Soon takes bids complete sewerage system. $115,000.

Ind., Anderson—Plans 1½ mi. sewer in Loumandale addition. $45,000. M. H. Donney, city engr.

Mich., Muskegon — Making plans Moon St. Interceptor SD-31, 2,700 ft. 27 in. d.s. vitr. pipe in 6 in. concrete, $35,000; and Moon St. Storm Sewer, 980 ft. 12- to 18-in. vitr. pipe, $10,000. H. J. Lewis, City Hall, engr.

Ill., Decatur — Making plans Broadway Relief Sewer. $1,000,000. Warren & Van Praag, Inc., Decatur, engrs. Noted June 23.

Ark., Hot Springs National Park—South Hot Springs & Oaklawn Sewer and Water Impvt., Dist. plans 11 mi. sewers, Imhoff tank, sludge bed, and 7 mi. water mains in various streets. H. S. Moreland, 625 Central Ave., Hot Springs, engr. Black & Veatch, Mutual Bldg., Kansas City, consult. engrs.

Okla., Edmond — Voted $27,000 bonds, sewer extensions and disposal plant. Peckham & Riggins, 225½ West Grand Ave., Oklahoma City, engrs.

Calif., Alameda—Making estimates intercepting sewer (to eliminate ponution in San Leandro Bay). To exceed $25,000. B. Hamilton, city engr.

Calif., Compton—Making plans sewers in Henrietta Sq., Oleander St., etc. To exceed $25,000. G. Rood, city engr.

Calif., Culver City—Making plans sewer in west of Overland Ave. To exceed $25,000. Koebig & Koebig, Title Insurance Bldg., Los Angeles, engrs.

Calif., Los Angeles — Voted $325,000 bonds, outfall sewer in Burbank.

Calif., Menlo Park—Menlo Park Sanitary Dist. voted $40,000 bonds, sewerage system.

Calif., Oakland—Made plans 31,234 ft. 8 and 10 in. vitr. sewers, etc., in 72nd and 73rd Aves., etc. G. N. Randle, city engr.

Calif., San Mateo — Making estimates joint sewage disposal plant for Hillsborough and San Mateo. To exceed $25,000. G. A. Kneese, Court House, Redwood City, engr.

Calif., Santa Monica — Plans sewer in Dewey and Navy Sts. $25,000 or more. H. B. Carter, city engr.

Calif., Santa Monica — Making plans Colorado Ave. Storm Drain, approximately 15,611 ft. radial brick 7.5 x 10.6 ft., 26,264 12- to 60-in. concrete pipe, etc. H. B. Carter, city engr.

Bids Desired

Mass., Boston — Oct. 27, by Dept. Pub. Wks., Boston, sewerage, system in Porter St., Outlet and Commonwealth Ave. Flats between Boston Harbor and Cottage St., East Boston. To exceed $25,000. J. H. Sullivan, comr.

Mass., Boston—Oct. 21, by Dept. Pub. Wks., Boston, sewerage works in various streets in Brighton and Roxbury. $25,000. J. H. Sullivan, comr.

N. Y., Albany—Oct. 24, by Bd. Contr. & Supply, City Hall, extending Judson St. trunk sewer and laying sewer in Eileen St.

N. Y., Brooklyn—Oct. 26, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewers in Kenmore Pl., Troy, Livonia and Myrtle Aves., Avenues N and L, Ocean and Rockaway Parkways, Colonial and Lenox Rds., East 48th, 70th, Jerome, West 8th, East 92nd, Winthrop, East 53rd, 77th Sts., etc.

N. Y., Freeport — Oct. 31, by Village Sewer Comrs., at office Village Clerk, West Merrick Rd., force main and completing main trunk sewers in various streets. N. S. Hill, Jr., 112 East 19th St., New York City, consult. engr.; adv. E. N.-R. Oct. 20.

N. Y., Long Island City—Oct. 26, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewer in 77th St.; sanitary sewer to be used temporarily for removal limited amount storm water in Jamaica Ave. from Hollis Court Blvd. to 212th St., and Jamaica Ave. from Cross Island Blvd. to 204th St., also in 212th St.

Pa., Harrisburg—Oct. 21, by A. Sherk, comr. Bd. Pub. Serv., new trunk sewer in Aberdeen and Strawberry Sts.; also in State St. between Cameron and 13th Sts. etc. E. C. Cowden, city engr.

Pa., Northampton — Nov. 3, by R. M. Kiechel, secy. Town Council, sanitary sewers and disposal plant; adv. E. N.-R. Oct. 20.

Pa., Phila.—Oct. 26, by Dept. Pub. Wks., Bureau of Engineering, Schedule A, branch sewers; and Schedule B, main sewers in various streets. G. H. Biles, dir.

Ky., Louisville—Nov. 17, by Commissioners of Sewerage, Bd. of Trade Bldg., Southwestern Storm Sewer Outlet Contr. 36 . J. B. F. Breed, ch. engr.; adv. E. N.-R. Oct. 20. Noted Mar. 24.

O., Akron—Nov. 10, by W. F. Peters, dir. Pub. Serv., Municipal Bldg., Cuyahoga River Outfall Sewer, Contr. 2; adv. E. N.-R. Oct. 20.

O., Dayton—Oct. 24, by Comrs. Montgomery Co., 18,324 ft. 4- to 12-in. c.i. and 8,310 ft. 8 in. vitr. sewer, etc. in Riverside Sewer & Water Dist., Sect. "C", $35,000. P. E. Borchers, U. B. Bldg., county sanitary engr.

Ill., Chicago — Oct. 25, by Bd. Local Impvts., Room 207, City Hall, tile sewers with brick catch-basins and brick manholes in portions West 19th and West 101st Sts., Avondale, Devon, South Kenneth, South Kilbourn, South Lamon, South La Porte, South Laramie, South Levergne, South Leamington, North Neva, Archer and Ewing Aves. M. J. Faherty, pres.

Okla., Rush Springs — Oct. 27, by G. Spencer, city clk., extending 17,000 ft. 6- to 12-in. sewers in various residential streets. $35,000. J. C. Milliken, Continental Bldg., Oklahoma City, engrs.

Okla., Wewoka—Nov. 4, by O. R. Fraser, city clk., 21,800 ft. 8 and 10 in. vitr. clay sewers, etc. 5 streets. $60,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Sept. 1.

Contracts Awarded

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, branch sewers in Burton and Glenlock Sts., also Duffield St., to F. Jafallo, 10 Ryders Ave., $9,491 and $13,640 respectively; G St., to Leva Bros., 104 West Gale St. $9,351; Guyer and Island Aves., to Sabatini Vallone Co., 1720 South Chadwick St. $4,523 and $3,829 respectively; I and Roxborough Aves., to E. Ventresco, 6016 Ross St., $2,434 and $[illegible],025 respectively; Loretto St., to F. DiPasquale, 1215 South 7th St., $17,248; and Magdalena St., to J. Hastie & S. Solomon, Elrae Bldg., $13,890. Grand total $80,435. Noted Sept. 29.

O., Alliance—Bd. Control, sewage treatment plant, to W. E. Sexton, Mineola, N. Y., $472,102; also outfall sewer, to F. George, Mahoning Bank Bldg., Youngstown, $166,370. Noted Sept. 8.

O., Columbus—W. H. Duffy, dir. Service, 7,095 ft. 15- to 48-in. vitr. sewer, etc., in Mound St., to W. W. Neilson, 168 East Lane Ave., $30,495. Noted Sept. 29.

O., Hamilton—Trunk sewers in east end city, to Andrews Asphalt Paving Co., Hamilton, $298,600.

O., Parma (br. Cleveland) — Sewer in Ridge Rd., to Huron Constr. Co., 646 Huron Rd., Cleveland, $25,435.

Mich., Grand Rapids—F. H. Locke, city mgr., vitr. and concrete sewers in Benton, Madison and Division Sts., to O. Johnson, Port Huron, $211,931. Noted Oct. 6.

Ill., Blue Island — Village, 3 sewerage systems, to C. M. Porter Co., 228 North La Salle St., Chicago, $125,183. Noted July 21.

Ill., Chicago—M. T. O'Brien, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., West Side Intercepting Sewer, Contr. 1, to Paschen Bros., 111 West Washington St., $3,333,440. Noted Sept. 22.

Ill., Park Ridge — Concrete, vitr. and rein.-con. sewers, sidewalks, paving, etc. various streets, to Nicholas Santucci, Niles Center, $780,949.

Wis., Milwaukee—Metropolitan Sewerage Comn. 508 Market St., main sewer known as Metropolitan Contr. 44, also extending 14th Avenue Sewer, to Ribbeiss Bros., 1982 Woodburn St., Whitefish Bay, $43,205. Noted Sept. 29.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, two 25 x 29 ft. rein.-con. arch sewer through Forest Park with laterals, etc., Sect. D River Des Peres Project, to A. Guthrie & Co., Inc., 1209 Builders Exch. Bldg., St. Paul, Minn., $2,296,057. Engrs. est. $3,100,000. Noted Sept. 15.

Tex., Mission—For 6 mi. 10 in. mains and sewage disposal plant, to Agar & Gentry, San Benito, approximately $60,000. Noted June 2.

Calif., Los Angeles — Sewer in Curson Ave. between Cadet Ave. and Pico Blvd., to J. Chutuk, 343 Wilcox Bldg., $37,126. Engrs. est. $48,665.

Calif., San Francisco — Bd. Pub. Wks. rein.-con. sewer in 30th Ave., to Federal Constr. Co., Call Bldg., $28,982. Noted Oct. 6.

Waste Disposal

Proposed Work

O., New Boston (Portsmouth Sta.)—W. D. K. Taylor, village clk., garbage incinerator, Milldale Rd., to Pittsburgh Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., $38,000. Noted Sept. 8.

Bridges

Proposed Work

Ill., Calumet City — Cook Co. Highway Dept., 139 North Clark St., Chicago, making plans 3,100 ft. bridge over Calumet River, on Burnham Ave., here. G. A. Quinlan, 139 North Clark St., Chicago, engr.

Missouri — State Hy. Comn., Jefferson City, making plans two 6 ft. rein.-con. slab spans, etc., over creek, and one 16 ft. I-beam span, etc., over Side Road Creek, Bollinger Co.; two 8½ ft. rein.-con. slab spans, etc., over Youngs Creek, two 10 ft. rein.-con. slab spans, etc., over Craghead Branch, and four 30 ft. rein.-con. deck grider spans, etc., over Stinson Creek, Callaway Co.; one 20 ft. rein.-con. slab span bridge over creek, Cass Co.; one 84 ft. steel truss span bridge over Fishing River, and repairing bridge at Sta. 286 plus 00, Clay Co.; constructing bridge over Osage River, at Sta. 522 plus 24.2, Cole and Osage Counties; one 40 ft. and two 30 ft. rein.-con. deck girder span bridge over Little Tarkio Creek, one 35 ft. rein.-con. deck and two 20 ft. rein.-con. slab spans, etc., over Porter Creek, one 20 ft. I-beam span bridge over Todd Ditch, also one 80 ft. steel truss

Bridges (Continued)

and two 40 ft. I-beam spans, etc., over Squaw Creek Ditch, all Holt Co.; one 16 ft. I-beam span bridge over small ditch, one 16 ft. I-beam bridge over Borrow Pit, one 140 ft. and two 60 ft. steel truss spans, etc., Drainage Ditch and six 20 ft. I-beam spans, etc., over Nodaway River Drainage Ditch, also one 80 ft. steel truss span bridge over Mill Creek Drainage Ditch, all Nodaway Co.; one 45 ft., one 38.5 ft., and one 43 ft. rein.-con. deck girder bridge over Wabash R.R. tracks, Warren Co.; four 20 ft. rein.-con. slab spans, etc., over Osage River, two 35 ft., and six 50 ft. rein.-con. girder, also one 225 ft. opened spandrel arch span bridge, St. Clair Co.; and reflooring two bridges in Reynolds Co. T. H. Cutler, ch. engr.

Missouri—City of Kansas City, St. Louis & San Francisco Ry. Co., F. G. Jonah, ch. engr., St. Louis, Kansas City Southern Ry. Co., A. N. Reese, ch. engr., Kansas City, and Missouri Pacific Ry. Co., E. A. Hadley, ch. engr., Railway Exch., St. Louis, plan rein.-con. and steel viaduct, on Winner Rd. between Kansas City and Independence. $1,900,000.

Tex., Archer City — See "Streets and Roads."

Tex., Batesville — See "Streets and Roads."

Tex., Belleville—See "Streets and Roads."

Tex., Bonham—See "Streets and Roads."

Tex., Carrizo Springs—See "Streets and Roads."

Tex., Centerville — See "Streets and Roads."

Tex., Cold Springs — See "Streets and Roads."

Tex., Crockett—See "Streets and Roads."

Tex., Plainview — See "Streets and Roads."

Okla., Braggs—State Hy. Dept., Oklahoma City, making preliminary plans 2 span 166 ft. steel truss bridge near here, Cherokee Co. $42,000. C. R. Mandigo, highway engr.

Bids Desired

New York and Pennsylvania—Nov. 4 by A. W. Brant, comr. Highways, Albany, N. Y., repairing and strengthening interstate bridges on Pond Eddy-Pond Eddy Railroad Station Narrowburg-Damascus Contr. 4, Sullivan Co., for New York State Dept. Pub. Wks. Div. of Highways, Albany, N. Y. and Commonwealth of Pennsylvania, Harrisburg; adv. E. N.-R. Oct. 20.

Pa., Pittsburgh — Oct. 26, by Comrs. Allegheny Co., Court House, 3 span 3,980 ft. bridge over Allegheny River, on 31st St. $1,700,000. Dept. Pub. Wks., 519 Smithfield St., engrs. Noted June 17.

Virginia — Nov. 7, by District Comrs., District Bldg., Wash., D. C., reconstructing abutment of Chain Bridge, here.

La., Coushatta—Nov. 15, by State Hy. Comn., Baton Rouge, bridge over Red River, here, Red River Parish. $300,000. N. W. Bowden, Baton Rouge, state highway engr.

La., New Orleans—Nov. 3, at office Dept. Pub. Finances, Purch. Div., T. S. Walmsley, comr., City Hall, rein.-con. bridge and approaches over 17th St. Canal, on prolongation of lake side roadway of South Claiborne Ave.; adv. E. N.-R. Oct. 20. Noted Sept. 15.

Ohio—Oct. 28, by G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, two 40 ft. span beam bridge on Sect. "D" Cincinnati-Brooksville Rd., Butler Co., $13,904; three 32 ft. span beam bridge Sect. "C" Columbus-Washington C. H. Rd., Fayette Co., $22,889; 2 rein.-con. bridges and 2 top slab culverts, Sect. "B" Middletown-Eaton Rd., Butler Co., $19,144; also removing steel truss and constructing 40 ft. beam bridge, Sect. "L" Lima-Sandusky Rd., Sandusky Co., $7,355.

Ind., Anderson — Nov. 15, by Comrs. Madison Co., concrete bridge, $30,000. A. B. Steele, co. surv.

Illinois — Oct. 26 (extended date), by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, widening two 59 ft. span rein.-con. girder bridge on Route 6, Sect. F-1 Cook Co.; 75 ft. steel bridge on Route 7, Sect. 4-B-1, Henry Co., one 50 ft. rein.-con. girder bridge, two 30 ft., two 100 ft., and one 150 ft. span rein.-con. substructure on Route 10, Sect. 36-B, also two 100 ft. and one 150 ft. steel superstructure on Route 10, Sect. 36-C, all Vermilion Co.; one 50 ft. rein.-con. girder and two 26 ft. rein.-con. slab bridges, also three 10 ft. rein.-con. box culverts on Route 72, Sect. 128-B, DeKalb and Kane Counties; two 16 ft., one 20 ft. and one 30 ft. span rein.-con. slab bridges on Route 81, Sect. 102-B, Henry Co.; one 28 ft., three 35 ft., and two 30 ft. span rein.-con. and girder bridges on Route 116, Sects. 113-B and 114-B, Livingston Co.; two 28 ft. span rein.-con. slab bridge, also one 42 ft. and one 30 ft. span rein.-con. girder bridges on Route 156, Sect. 102-B, Monroe Co. F. T. Sheets, ch. highway engr. Noted Oct. 13.

Illinois—See "Streets and Roads."

Nebraska—See "Streets and Roads."

Neb., Lisco—Oct. 26, by H. C. Fickles, clk. Garden Co., Court House, Oshkosh, eight 80 ft. pony truss span bridge over Platte River, near here. $190,000. R. L. Cochran, Lincoln, state highway engr.

Okla., Oklahoma City—Oct. 24, by J. W. Berry, clk. Oklahoma Co., 10 span 144 ft., rein.-con. trestle, 46.4 tons I-beam steel, 37.7 tons reinforcing, 4,600 ft. wooden piling, etc. $31,250. R. S. James, Court House, engr.

Washington—See "Streets and Roads."

California—Oct. 31, by State Hy. Dept., Sacramento, repairing eleven 30 ft. span bridge over New River near Seeley, Imperial Co.; also grading and concrete paving, etc. 0.4 mi. roadway at Ben Ali subway, Sacramento Co. R. M. Morton, Strub Bldg., Sacramento, engr.

B. C., Wardner—Nov. 4, by Dept. Pub. Wks., Victoria, three 164 ft. steel truss span bridge, 14 ft. over Kootenay River, here, for Provincial Govt., Victoria. $50,000. P. Philip, Dept. Pub. Wks., Victoria, engr.

Contracts Awarded

New York—A. W. Brandt, comr. Highways, Albany, **(e. e. means engineers estimate)**, to Albany Bridge Constr. Co., 518 Bway., Albany, reconstructing bridge on Repair Contr. 1667, Highway 619, Sammonsville-Johnstown Rd., Fulton Co., $28,842 e. e. $35,194; to S. C. Dodds, 52 Luzerne St., Rochester, bridge on Repair Contr. 1660, Highway 5400-A, Warsaw-Gainsville Rd., Wyoming Co., $11,209 e. e. $15,521, and 4,500 sq.ft. steel sheet piling reconstruction 1668, Highway 8030, Machias-Yorkshire Rd., Cattaraugus Co., $1,710 e. e. $2,700; and to Shepard Constr. Serv. Inc., 1711 Spring St., Syracuse, reconstructing bridge on Repair Contr. 1663, Highway 5284, Nicholville-Moira Rd., St. Lawrence Co., $27,346 e. e. $35,766, on Repair Contr. 1661, Highway 5076, Malone-Moira, Part 3 and Highway 5284, Nicholville-Moira Rd., Franklin Co., $60,589 e. e. $76,640, bridge on Repair Contr. 1662, Highway 5613, Malone-Chateaugay Rd., Franklin Co., $34,840 e. e. $45,435, and on Repair Contr. 1664, Highway 1100, Indian Lake Co. Line Rd., Hamilton Co. $52,936 e. e. $66,716; to Ontario Constr. Co., Inc., Rochester, on Repair Contr. 1665, Highway 389, Maple Ridge Rd., Part 1, Orleans Co., $11,400 e. e. $15,096; to A. C. Toaspern & Co., Barryville, on Repair Contr. 1658, Highway 1486, Whitney Point-Lyle Rd., and Highway 1612, Whitney Point Village, Broome Co., $106,771 e. e. $138,465. Grand total $335,643. Noted Oct. 13.

New York and New Jersey—Port of New York Authority, 75 West St., New York City, wire cable for Hudson River Bridge from Fort Washington, N. Y. to Fort Lee, N. J., to John A. Roebling Sons' Co., South Broad andCanal Sts., Trenton, N. J., $12,339,977; and steel towers and floors, to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa., $10,134,440. Noted Oct. 6.

Alabama—State Hy. Comn., Montgomery, **(F.A.P. means Federal Aid Project)** bridge and approaches on S-101, Colbert and Lawrence Counties, to Booze & Boyd, Lewisburg, Tenn., $24,640; bridge on roadway between Cooks, Springs and Leeds, St. Clair Co., to Willmore Constr. Co., Wilmore, Ky., $36,504; bridge on roadway from Florence to Tennessee State Line, Lauderdale Co., to General Constr. Co., 408 Pine St., St. Louis, Mo., $69,902; bridge and approaches between Goodwater and Sylacauga, Coosa Co., to B. B. Smith, Montgomery, $25,858; bridge on McKenzie and Evergreen Rd., S-222, Conecuh Co., to Singer Constr. Co., Lafayette, $17,119; bridges on roadway between Tuscumbia and Margerum, F.A.P. 196, Colbert Co., to Southern Constr. Co., 615 South 11th St., $72,558; bridge on roadway between Tuscaloosa and Hale Co. line, Tuscaloosa, and bridge on roadway between Orrville and F.A.P. 169-A, F.A.P. 169-B, Dallas Co., to E. Pettus, Montgomery, $51,281 and $50,877 respectively. Grand total $348,739. Noted Sept. 22.

O., Hamilton—Baltimore & Ohio R.R. Co., H. A. Lane, ch. engr., Baltimore, Md., general contract bridge, here, to Vang Constr. Co., Bessemer Bldg., Pittsburgh, Pa. Engrs. est. $60,000.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridges on Route 127, Sect. 112-B, Clinton Co., to A. Calberson, Oconee, $12,664; on Route 88, Sect. 102-B, Whiteside Co., to Pickus Eng. & Constr. Co., Chicago, $16,415; on Route 88, Sect. 102-C, Whiteside Co., to Illinois Steel Bridge Co., Jacksonville, $17,558; on Route 116, Sect. 102-B, Tazewell Co., to Schmitt Constr. Co., Peoria, $15,879; on Route 116, Sect. 102-C, Tazewell Co., to Vincennes Bridge Co., Vincennes, Ind., $6,466; on Route 78, Sect. 134-B, Fulton Co., to M. R. Deyo, 801 West Washington St. E., Peoria, $28,031; and on Route 89, Sect. 115-B, Bureau Co., to G. C. Fairclo, Champaign, $22,395. Grand total $119,408. Noted Sept. 8 and 15.

Kan., Cottonwood Falls — See "Streets and Roads."

Kan., Girard—See "Streets and Roads."

Kan., Salina—See "Streets and Roads."

Mo., Springfield—C. A. Dickerson, city clk., 1,100 ft. rein.-con. bent and T-beam viaduct, on Benton Ave., to M. E. Gillioz, Monett, $149,194. Engrs. est. $200,000. Noted Sept. 29.

Tex., San Antonio—City Engineering Dept. 1 span, 80 ft., rein.-con., bridge 44 ft. over San Antonio River, on Martin St., to J. G. Jeffrey, c/o Builders Exch. Bldg., $25,139. Noted Sept. 15.

Tex., Seguin—Guadelupe Co., c/o J. B. Williams, judge, one 180 ft. span steel and rein.-con. bridge with 200 ft. timber pile trestle approaches over Guadelupe River, point 3.5 mi. west of here, to Austin Bridge Co., 1813 Clarence St., Dallas, $26,114. Engrs. est. $30,000. Noted Oct. 6.

Idaho—J. D Wood, comr. Pub. Wks., Boise, one 120 ft. concrete arch and three 45 ft. girder span bridge over Snake River, on Federal Aid Project 43-B, Idaho Falls, to C. F. Dinsmore & Co., Ogden, Utah, $62,613; and two 21 ft. span bridge, on Federal Aid Project 104-C, near Payette, Payette Co., to J. M. Sharp, Boise, $6,009.

Washington—State Hy. Comn., Olympia, one 180 ft. riveted steel through and three 30 ft. rein.-con. tee beam approach span bridge, 20 ft. roadway, etc. over Teanaway River, on State Rd. 2, Kittitas Co., to R. A. Geary, 22 Sloan Bldg., Yakima, $34,579. Noted Sept. 22.

California—See "Streets and Roads."

Calif., Los Angeles — Bridge over Los Angeles River, at Sepulceda Blvd., to Lynch-Cannon Eng. Co., 1027 Chapman Bldg., $37,217. Noted Sept. 22.

Railways

Proposed Work

Oklahoma—Oklahoma Ry. Co., 209 Terminal Bldg., Oklahoma City, G. B. Treat, ch. engr., making preliminary plans 15 mi. electric belt line railway around south and west parts Oklahoma City. $1,500,000.

Bids Desired

New Zealand—Feb. 21, by Secretary Pub. Wks. Tenders Bd., Wellington, constructing approximately 7 mi. Wellington-New Plymouth Railway, Tawa Flat Deviation, incl. two tunnels, in Wellington; adv. E. N.-R. Oct. 20.

Contracts Awarded

California — Bd. Pub. Wks., San Francisco, laying tracks for railway Sunset Line along Judah St., in San Francisco, to Eaton & Smith, 715 Ocean Ave., $248,267. Noted Sept. 22.

Alberta—Canadian Pacific Ry. Co. (western lines), Winnipeg, Man., grading 33 mi. line from Rosedale to near Bull Pound Creek, to Dutton & Mannix, 803 MacArthur Bldg., Winnipeg, Man.; and constructing 23 mi. Rosemary Northerly Branch, to H. G. Macdonald, Esq., Edmonton.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

La., Ponchatoula—Gravity D. D. 2 voted $240,000 bonds, constructing levees and drainage ditches in district.

La., Rayville—Tensas Basin Levee Dist., J. W. Summerlin, pres., soon takes new bids 150,000 cu.yd. levee work in various districts in Ouachita and Caldwell Parishes. Former bids rejected. State Bd. Engineers, New Orleans Court House Bldg., New Orleans, engrs.

Excavation, Drainage, Irrigation, Levees, River and Harbor (Continued)

Tex., Crystal City—Dimmit Co., c/o W. Davis, judge, Crystal City, making preliminary plans irrigation work and reconstructing retaining dam on Nueces River, 6 mi. north of here. $75,000. Address J. G. Lott, Crystal City, co. engr.

Calif., Los Angeles—City Harbor Comn. making plans apron wharf at Berths 177-178, 10,000 cu.yd. dredging, 15,000 sq. ft. 3 in. bituminous paving, 1,120 lin.ft. 128 lb. railroad steel, 219,150 ft. rough, creosoted and fender lumber; also 150 ft. wharf extension at Berths 150-151. G. F. Nicholson, Berth 90, San Pedro, engr.

Calif., Los Angeles—Harbor Comn. making plans dredging Auxiliary Anchorage 1. $25,000. G. F. Nicholson, San Pedro, city harbor engr.

Bids Desired

Tenn., Huntington — Oct. 24, by M. R. Maddox, atty., 8.5 mi. open ditch work draining portion city, 165,000 cu.yd. excav., etc., for City. $29,370. W. H. Stinson, Milan, engr.

Illinois — Nov. 4, by Drainage Comrs. Union D. D. 1, Hamilton Twp., Lee Co., and Hahnaman Twp., Whiteside Co., at Town Hall, Hamilton, 465,579 cu.yd. excav., etc. Address L. B. Neighbor, Dixon.

Ill., Jamaica—Nov. 4, by Comrs. Jamaica Special Drainage Dist., Vermilion Co., cleaning 23,826 ft. open ditch, 46,053 cu.yd. excav., etc. $15,000. J. Fisher, Danville, engr.

Ill., Piper City—Nov. 4, by Comrs. Vermilion Special D. D. Paxton, redredging 5 mi. ditch, 560,000 cu.yd. excav., etc., near here. F. M. Thompson, Paxton, atty.

Calif., Los Angeles—Silver Lake Terrace Co., 527 Pacific Mutual Bldg., taking bids 300 ft. retaining wall 35 ft. high, and excavating 25,000 cu.yd. at Sunset and Sunset Lake Blvd.

Calif., Richvale—Nov. 1, by M. Harris, secy. Drainage Dist. 100, cleaning and constructing 19,600 lin.ft. drainage ditch.

Contracts Awarded

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, Bridge Div., 401 ft. retaining wall approximately 20 ft. high for east approach to Green Lane Bridge, to C. A. MacDonald, 809 North 63rd St., $44,070. Noted Sept. 29.

Louisiana—Bd. State Engineers, 213 New Orleans Court Bldg., New Orleans, to Callahan-Walker Constr. Co., 1106 1st Natl. Bank Bldg., Omaha, Neb., constructing 75,000 cu.yd. levee work in Alexandria Front, Red River, Atchafalaya and Bayou Boeuf Levee Dist., at $0.149 per cu.yd.; to B. J. Carbo, Alexandria, 28,000 cu.yd. Richardson Point $0.245; to Picard Constr. Co., Hicks Bldg., New Orleans, 3,000 cu.yd. Sarto Group $0.236; to L. J. Couvillion, Hamburg, 12,127 cu.yd. Nolan Slough $0.265; to L. O. Bordelon, New Orleans, 700 cu.yd. Simmesport Leak $0.2375; to Clofton & Bushing, Bayou Current, 1,500 cu.yd. Woodside School House $0.65; to J. P. Herbert, Breaux Bridge, 2,000 cu.yd. St. Joseph's Church $0.27; to S. J. Hulse, Melville, 350,650 cu.yd. Delana, Morgan Ferry and Harvard slides $0.25, 6,000 cu.yd. Bayou Petie Prairie slide $0.20, 300 cu.yd. Atkins Bayou Scour $0.21, and 2,000 cu.yd. Two Mile Bayou crawfish holes $0.225.

California—See Streets and Roads."

Calif., Los Angeles — Bd. Supervs. Los Angeles Co., concrete retaining walls for 1,400 ft. channel Sierra Madre Dam, rein.-con. arch type bridging, etc., Proposition 1, to C. Fischer, 434 Chamber of Commerce Bldg., $40,999; Proposition 2, to Calahan Constr. Co., 1730 Industrial St., $88,000; and Proposition 4, to E. J. Goss, 1109 North Vermont Ave., $14,315. Grand total $143,314.

Que., Riviere du Loup — S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., reconstructing and repairing wharf, here, to Lodger Lemieux Ltd., Ste. Marie, $12,240. Noted Sept. 15.

B. C., New Westminster — Dept. Pub. Wks., Ottawa, Ont., S. E. O'Brien, secy., 1,000 ft. rock embankment between Woodwards Island and No. 1 Island, in Fraser River, here, to Fraser River Pile Driving Co., 150 Front St., $32,335. Noted Sept. 1.

Streets and Roads

Proposed Work

Mass., Boston—Dept. Pub. Wks., plans laying out and reconstructing extension Fox St. and Rockland Ave., Dorchester and Barstow St., Brighton, as highways. $25,000 or more. J. H. Sullivan, comr.

Mass., Weymouth — Plans grading and bituminous macadam or asphalt paving Washington Sq. $25,000 or more. F. E. Waite, chn. Bd. Selectmen.

New York—A. W. Brandt, comr. Highways, Albany, rejected bids Oct. 7, reconstructing 1.33 mi. Repair Contr. 1645, Weaver St., Part 1, Westchester Co., and 6.29 mi. Highway 1760, Hopewell-Junction-Millbrook Rd., Part 3, Dutchess Co. Noted Oct. 13.

N. J., Jersey City—Bd. City Comrs., E. J. Holland, city clk. plans repaving Mercer, Wayne, and Merseles Sts. $74,000 appropriated; and portions Communipaw and West Newark Aves., $25,000 appropriated.

N. J., Seaside Heights—Boro Council plans sheet asphalt paving various streets. $30,000. H. M. Herbert, Seaside Heights, engr.

Ga., Jesup—Takes bids about Oct. 25, curbing, guttering and paving, etc. approximately 20,000 sq.ft. 2nd paving project. Carolina Eng. Co., 917-919 Johnston Bldg., Charlotte, N. C., engrs. W. K. Dickson, resident engr.

Alabama—State Hy. Dept., Montgomery, rejected bids Oct. 5, gravel surfacing 12.25 mi. roadway between Perdido Station and Bayminette, Federal Aid Project 163, Baldwin Co. Noted Sept. 15.

Miss., Yazoo City—Making preliminary plans grading, curbing and concrete or asphalt paving 27 blocks Mound, Jefferson, Yazoo, Washington, Canal, Monroe, Jackson and Bridge Sts.

La., Westwego—Voted $200,000 bonds, grading and paving various streets.

Tennessee — State Dept. Highways & Pub. Wks., Nashville, making surveys improving 12 mi. Franklin-Columbia Rd., State Road 6. C. N. Bass, comr.

Tenn., Cleveland—Bradley Co. plans improving Georgetown-Decatur Rd. and Hicks Mill-Polk Co. line Rd., etc. To exceed $25,000.

Tenn., Franklin—Williamson Co. plans improving 12 mi. Franklin-Spring Hill Rd. $50,000 appropriated.

Tenn., Greenville — Greene Co. appropriated $205,000, improving portions Greenville-Bulls Gap and Greenville-Kingsport Rds.

Tenn., Huntingdon—Carroll Co. and Dept. Highways & Pub. Wks., Nashville, plan improving 10 mi. McKenzie-Trezevant Rds. C. N. Bass, Nashville, comr.

Tenn., Newport—Cocke Co., plans constructing 20 mi. road from Jefferson Co. line to North Carolina line. $800,000. Work will probably be done under supervision of State Hy. Dept., Nashville.

Michigan—H. C. Fleming, resident engr., Grand Rapids, takes bids about Nov. 10, grading 3.8 mi. Federal Aid Rd. FO54-7 C, Mecosta Co., for State Hy. Dept., Lansing.

Michigan—H. G. Oakes, resident engr., Cadillas, takes bids about Nov. 3, two course graveling 5.76 mi. MO45-11 A and C, Contr. 1, Leelanau Co., 18 ft., for State Hy. Dept., Lansing.

Mich., Detroit—Wayne Co. making preliminary plans concrete paving various roads and grade separation structures. $7,000,000. L. Smith, Cadillac Sq. Bldg., engr. mgr.

Missouri — State Hy. Comn., Jefferson City, making plans grading approximately 29 mi. roads in Cass, Cape Girardeau, Pettis and Christian Counties; 30 ft. grading approximately 44 mi. roads in 19 counties; 44 ft. grading approximately 9 mi. Cole Co.; 50 ft. grading 4.3 mi. Dorset-Oliver State Rd., St. Louis Co.; 18 ft. graveling, etc., 4.5 mi. Lowry City-Osceola Rd., St. Clair Co.; 9 ft. concrete paving, etc., approximately 9 mi. road from Pleasant Hill north, Cass Co.; and 18 ft. concrete paving, etc., approximately 22 mi. road in Cape Girardeau, Cass and Pettis Counties. T. H. Cutler, ch. engr.

Mo., Bunceton — Voted $25,000 bonds, grading and graveling, etc. Bunceton Special Road Dist. 16.

Mo., Jackson — F. G. Ockel, city clk., takes bids probably in November, grading, asphalt or concrete paving, etc. approximately 13,000 sq.yd. Main, High, Court, Barton and 1st Sts. $40,000. Former contract rescinded. Edward Flad & Co., 916 Chemical Bldg., St. Louis, engrs. Noted June 16.

Ark., Texarkana—Soon takes bids asphalt on concrete paving approximately 40,000 sq.yd. various streets.

Tex., Archer City—Archer Co. making plans grading, bridging and rein.-con. paving 9.297 mi. State Highway 79 from Archer City to Sta. 494, 26 ft. $93,000. G. A. Johnson, Archer City, engr.

Tex., Batesville — Lavalla Co. making plans grading and bridging 31.6 mi. State Highway 55, 26 ft. $94,000. G. H. Jowers, Batesville, engr.

Tex., Belleville—Austin Co. making plans grading and bridging 14.185 mi. highway from Brazos Junction through Road Dist. 4 to Mill Creek, State Aid Project 646, 18 ft. $135,400. H. Schroeter, Belleville, engr.

Tex., Bonham—Fannin Co. making plans grading and bridging 4.474 mi. State Highway 5, Federal Aid Project 464-A, Unit 1, 26 ft. $26,000. A. J. Goode, Bonham, engr.

Tex., Carrizo Springs—Dimmit Co. making plans grading and bridging 9.549 mi. State Highway No. 55 from point 1.75 mi. southeast of here through Ashton, $50,360; and 10.839 mi. State Highway 55 from Zavalla through Carrizo Springs to Sta. 575, 26 ft. $90,000. J. G. Lott, Carrizo Springs, engr.

Tex., Centerville—Leon Co. making plans grading, bridging and rein.-con. paving 45.5 mi. State Highway 43 from Freestone to Robertson Co. lines. $1,514,317. Nagle, Witt, Rollins & Gilchrist, Allen Bldg., Dallas, engrs.

Tex., Cold Springs — San Jacinto Co. making plans grading and bridging 7.621 mi. State Highway 35, 26 ft. $40,000. J. T. Ross, Cold Springs, engr.

Tex., Crockett — Houston Co. making plans grading and bridging 8.547 mi. State Highway 21, Federal Aid Project 499-A, Unit 1, 26 ft. $52,000. F. J. Von Zuben, Crockett, engr.

Tex., Crockett—Houston Co. made plans grading and bridging 9.222 mi. State Highway 19, Federal Aid Project 485, B, Unit 1, 26 ft. $40,000. F. J. Von Zuben, Ft. Worth, engr.

Tex., Hebbronville—Jim Hogg Co. making plans 1 in. rock asphalt on 10 in. caliche surfacing 4.28 mi. State Highway 12-A, 18 ft. $28,000. E. J. Foster, Hebronville, engr.

Tex., Houston—Harris Co. making plans grading, concrete paving and bridging 3.721 mi. State Highway 12 from Houston to West Junction. Howe & Wise, c/o A. J. Wise, Courthouse, engr.

Tex., Plainview—Hall Co. making plans grading, bridging and rein.-con. paving 27.35 mi. State Highway 28, $1,036,000; also grading, bridging, brick and concrete paving 37 mi. State Highway 9, $1,369,000, both 18 ft. J. W. Puckett, Plainview, engr.

Okla., Oklahoma City—Plans grading, curbing and sheet asphalt paving, etc. 8,700 sq.yd. West 21st St. $33,770. B. M. Hart, City Hall, engr.

Okla., Oklahoma City — Plans grading, curbing and sheet asphalt paving 6,640 sq. yd. Stonewall St. $30,410. B. M. Hart, City Hall, engr.

Idaho—State Hy. Comn. rejected bids Oct. 5, crushed graveling, etc., 14,000 cu. yd. Project 21-C-32-D, Elmore and Gooding Counties. J. D. Wood, comr.

Idaho—State Hy. Comn., Boise, rejected bids Sept. 30, broken stone surfacing, etc. 5,765 cu.yd. Federal Aid Project 24-44, Twin Falls Co. $42,291. J. D. Wood, comr. Pub. Wks.

Wash., Seattle—Making plans paving 58 mi. various streets during 1928. $3,700,000. D. Evans, City Hall, engr.

California—State Hy. Dept., Sacramento, made estimates new roadway through Dison, eliminating 2 grade crossings, etc., Solano Co. $33,000-$54,000. R. M. Morton, Strub Bldg., Sacramento, engr.

Calif., Arcadia—Plans curbing, walks, ornamental lighting system, oil macadam paving, etc., 1st Ave., etc. To exceed $25,000.

Calif., Los Angeles—City and Los Angeles Co. plan constructing Sepulveda Blvd from San Fernando Valley through Santa Mountains to Sawtelle, incl. $300,000 tunnel. Total $1,564,191. City and Los Angeles Co. each pay $150,000 for tunnel. County pays $70,000 additional and City $125,000 towards remaining expense of roadway.

Ont., Chatham—Kent Co. Council plans concrete paving 5 mi. road from Blenheim to Charing Cross. $100,000. W. D. Colby, County Bldgs., engr.

Ont., Welland—Welland Co. plans concrete paving 2½ mi. highway from Ridgeway to Crystal Beach. $60,000. W. W. Brookfield, County Bldgs., co. road supt.

Bids Desired

Mass. Boston — Oct. 25, by Dept. Pub. Wks., Boston, recut granite block paving Kneeland St., Ward 3, $28,000 bonds. J. H. Sullivan, Comr.

N. Y., Albany—Oct. 24, by Bd. Contr. & Supply, City Hall, improving and repaving Joetson Court, Broad, Erie and Magazine Sts., Homestead, Ryckman and Helderberg Aves.; concrete walks on McAlpin St.

N. Y., Brooklyn—Oct. 26, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading

Streets and Roads (Continued)

and bituminous macadam paving, etc. West 3rd St.; grading, curbing and flagging 15th Ave., East 46th, East 49th, and West 12th Sts.; grading East 95th St.; grading and sheet asphalt on concrete paving Avenue I, Troy, 12th, 15th, and 23rd Aves., East 9th, 37th, 51st, Elton, Maple, Sterling, West 11th, 72nd, 77th and 85th Sts.

N. Y., Buffalo — Oct. 25, at office Dept. Pub. Wks., J. J. Love, comr., Municipal Bldg., repaving Guilford St., Sweet, Prospect and Dunlop Aves.

N. Y., Lawrence—Nov. 10, by Bd. Village Trustees, Fire House, grading, sheet asphalt, warrenite, concrete or bituminous concrete paving 3.75 mi. various streets. C. F. Giraud and J. M. Welsch, Inc., 470 East Tremont Ave., New York City, civil and consult. engrs. Stillman & Van Siclen, Inc., 227 Front St., New York City, chemical and testing engrs.; adv. E. N.-R. Oct. 20.

N. Y., Long Island City — Oct. 24, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and sheet asphalt on concrete paving Queens Blvd., 85th Rd., Armand Pl., Millwood, 86th, 15th, Fosdick and 14th Aves., 125th, 89th, 108th, Singer (Lawrence), Sts.; grading Cypress Ave., Queens Boro.

Pa., Eagles Mere—Oct. 28, by F. Little, pres. Boro. Council, concrete paving 8,900 ft. Lakewood Dr., Jerome, Mary, LaPorte, and Pennsylvania Aves., 18 ft. $45,000. M. C. Krause, Medical Arts Bldg., Williamsport, engr.

Pa., Phila.—Oct. 24, by Dept. Pub. Wks., Bureau of Highways, asphalt paving (assessment work), etc. approximately 35,308 sq.yd. Benner, Large, Bingham, Bristol, Brous, Charles, Manheim, Montague and Queen Sts. G. H. Biles, dir.

Pa., Phila.—Oct. 24, by Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., granolithic sidewalks on 2,400 sq.yd. Broad St. between Tabor Rd. and Grange Ave., Broad St. Subway, Contr. 192.

Maryland—Oct. 25, by State Roads Comn., Baltimore, graveling 3 mi. Contr. AA-52, and 1.5 mi. Contr. AA-54, Anne Arundel Co., and 1.5 mi. Contr. Sm-41, St. Marys Co.; also concrete paving 0.2 mi. Contr. M-37, Montgomery Co. J. N. Mackall, chn.

Fla., Hollywood—Oct. 25, by City Clerk, curbing sidewalks and paving 70,000 sq.yd. various streets. F. J. Stewart, city engr.

Ala., Birmingham — Nov. 10, by City Comn., concrete paving 4 blocks 47th Pl. S., 30 ft. $17,300, and 3 blocks Ave. Y, Ensley, 40 ft. $17,850; 2 in. asphalt on 6 in. concrete paving 5 blocks Ave. N, Ensley, 30 ft. $23,250, 10 blocks 77th St. S., 40 ft. $56,900, and 4 blocks 10th Ave. S., 40 ft. $19,550; also 2½ in. asphalt on 6 in. concrete paving, etc., 2 blocks 2nd Ave. S., 40 ft. $27,070.

La., Baton Rouge—Nov. 2, by Police Jury Baton Rouge Parish, grading and 2 in. block top on 5 in. concrete paving 9,000 sq.yd. Weller Ave. R. Swart, Court House, engr.

Ohio—Oct. 28, by G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus; grading and paving, etc. with **(a)** concrete **(b)** bituminous macadam **(c)** 2½ in. brick, except brick **(d)** 3 in. brick except brick 5.321 mi. Sect. "S" Delphos-Upper Sandusky Rd., Alley Co. **(a)** $152,662 **(b)** $138,664, 5.467 mi. Sect. "C-2' 'Columbus-Lancaster Rd., Fairfield Co., **(a)** $174,994 **(c)** $172,217 **(d)** $175,183, 4.093 mi. Sect. "M" Steubenville-Cambridge Rd., Jefferson Co. **(a)** $185,804 **(b)** $189,798, 0.466 mi. Sect. "Woodville East" Bowling Green-Port Clinton Rd., Sandusky Co. **(a)** $15,811 **(b)** $13,481, and 5.158 mi. Sect. "J" Tiffin-Bellvue Rd., Seneca Co. **(a)** $161,482 **(b)** $145,819; also grading, etc. 2.872 mi. Sect. "B-2" Cambridge Steubenville Rd., Guernsey Co. $31,784, 3.793 mi. Sect. "D" Millersburg-Wooster Rd. $58,811, 3.44 mi. Sect. 'C" Wooster-Canal Dover Rd. $37,122, and 3.835 mi. Sect. "J" Loudonville-Wooster Rd. $35,766, all foregoing in Wayne Co.

O., Willowick—Taking bids 97,000 sq.yd. stone or concrete walks Brookwood Beach Allotment. To exceed $25,000. Sterling Eng. Co., 7016 Euclid Ave., Cleveland engrs.

Michigan — Nov. 2, by G. D. Tramp, resident engr., Crystal Falls, grading 5.72 mi. Federal Aid Rd. FO52-10 C-1, Marquette Co., for State Hy. Dept., Lansing.

Michigan — Nov. 3, by H. G. Oakes, resident engr., Cadillac, two course graveling 5.755 mi. Trunk Line Rd. MO 45-11, Contr. 1, Leelanau Co., 18 ft., for State Hy. Dept., Lansing.

Mich., Pontiac—Oakland Co. taking new bids 8 in. concrete paving 70,400 sq.yd. Clawson Rd. Former bids rejected. L. V. Belknap, Pontiac, co. engr.

Illinois — Oct. 26, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete, vitr. brick or bituminous concrete paving, etc., 2.65 mi. Route 1, Sect. 10-W and 1 span 30 ft. rein.-con. slab bridge on Route 1, Sect. 10-W-B, Will Co. F. T. Sheets, ch. engr.

Illinois — Oct. 26 (extended date), by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete, vitr. brick or bituminous concrete paving, etc., 4.25 mi. Route 14, Sect. 11 and 4.5 mi. Route 14, Sect. 12, both White Co., 5.61 mi. Route 72, Sect. 128 DeKalb and Kane Counties, 4.97 mi. Route 81, Sect. 101 Henry Co., 7.13 mi. Route 116, Sect. 113, and 6.86 mi. Route 116, Sect. 114, both Livingston Co.; grading, paving, guttering, etc., 0.21 mi. bridge approaches on Route 18, Sect. 13-E, Kendall Co.; grading, etc., 1.26 mi. Route 10, Sect. 36-A, Vermilion Co., 0.3 mi. Route 13, Sect. 28-V-1, St. Clair Co., 4.53 mi. Route 81, Sect. 102-A, Henry Co., and 4.37 mi. Route 136, Sect. 102-A, Monroe Co. F. T. Sheets, ch. highway engr. Noted Oct. 13.

Nebraska—Oct. 28, by Dept. Pub. Wks., State House, Lincoln, graveling, etc. 11 mi. Fremont-Ceresco Project 27, Saunders Co., 7 mi. Pierce-Wausa Project 136-K, and 15.7 mi. Pierce-Wausa Project 268-A, Pierce Co.; also constructing two 21 ft. creosoted timber trestel span bridges on Niobrara Center Project 113-C, Knox Co.; 3 bridges on Schuyler-Pilger Project 261-B, Colfax Co. R. L. Cochran, state highway engr.

Tex., Galveston—Oct. 31, by City, c/o A. C. Kelly, secy., curbing, paving, etc. approximately 14,354 sq.yd. Avenues F and O. $40,000. C. A. Holt, Galveston, city engr. Noted Aug. 13.

Okla., El Reno—Oct. 24, by C. E. Bross, clk. Canadian Co., improving 20.3 mi. various roads, 96,200 cu.yd. earth and 1,100 cu.yd. rock excav., 27,200 cu.yd. borrow, 38,600 sq.yd. overhaul, 37.27 tons steel, etc. $65,000. Dwight Powell, El Reno, engr.

Okla., Frederick—Oct. 25, by B. Wright, city clk., grading, curbing and 6 in. concrete paving 9,100 sq.yd. streets in Dist. 22. $28,775. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, Mo., engrs.

Nevada — Oct. 26, by State Hy. Comn., Carson City, grading and crushed graveling 24,800 cu.yd. State Highway System, Lyon and Mineral Counties. S. C. Durkee, highway engr.

Washington—Nov. 1, by State Hy. Comn., Olympia, grading etc. 116,000 cu.yd. and constructing five 20 ft. to 70 ft. timber span bridges on State Rd. 5 between Hells Crossing and Union Creek, Yakima Co. S. J. Humes, Olympia, state highway engr.

Washington—Nov. 8, by State Hy. Comn., Olympia **(S.R. means State Road)**, grading, etc. 188,870 cu.yd. S.R. 6, Pen Oreille Co., 151,900 cu.yd. S.R. 13, Pacific and Grays Harbor Counties, and 49,350 cu.yd. Ilwaco-North Head Highway, Pacific Co.; also graveling, etc. 6,260 cu.yd. S.R. 1, King and Pierce Counties. S. J. Humes, state highway engr.

California—See "Bridges."

Calif., Berkeley — F. Turner, city clk., taking bids grading and concrete paving, etc. 18,000 sq.ft. Panoramic Way. A. J. Eddy, city engr.

Calif., Long Beach — J. O. Brison, city clk., taking bids curbing, guttering and concrete paving, etc. 19,800 sq.ft. Rose Ave. R. D. Van Alstine, city engr.

Calif., Lynwood—Taking bids curbing, walks, oil and rock surfacing, 6 in. concrete paving 43,250 sq.ft. 5 in. concrete paving 10,000 sq.ft., and 5 in. asphaltic concrete paving 3,500 sq.ft. Fir St. R. Miller, Smith Bldg., city engr.

Calif., Monterey Park — A. R. Langley, city clk., taking bids grading, curbing, walks and 3 in. Durite on 3 in. disintegrated paving 385,200 sq.ft. Mabel Ave., etc. O. A. Gierlich, Bank of Italy Bldg., Monrovia, engr. Noted Sept. 29.

Calif., Stockton—A. L. Banks, city clk., taking bids grading, curbing, guttering, walks and 1½ in. Willite on 3½ in. asphaltic concrete paving, etc., portions Weber Ave. W. B. Hogan, city engr.

Calif., Ventura—Nov. 1, Clerk Ventura Co., surfacing, etc. Telegraph Rd. east of Santa Paula, etc., 5,680 tons asphaltic concrete; also grading, etc. 15,000 cu.yd. Foothill Rd. C. Petit, co. surv.

Contracts Awarded

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 22,600 ft. highway in Bernardston, Gill and Northfield, 18 ft., to Carlo Bianchi & Co., Inc., Fitts Bldg., Framingham, $215,056. Noted Sept. 29.

New York—A. W. Brant, comr. Highways, Albany, **(e. e. means engineers estimate)**, concrete paving 1.01 mi. Repair Contr. 1666, Highway 1015, Crystal Springs-Chappaqua-Millwood Rd., Westchester Co., to J. Mascetti Co., 223 Oak Ave., Torrington, Conn., $92,735 e. e. $121,455; 2.34 mi. Repair Contr. 3190, Highway 250, Utica-Oneida Castle Rd., Part 1, Oneida Co., to Utica Constr. Co., Utica, $171,523 e. e. $244,219; 4.11 mi. Repair Contr. 1659, Highway 5299, Babylon Village Rd. and Highway 743 Babylon-Bayshore Rd., Suffolk Co., to Hogeboom & Canfield, Inc., Kingston, $315,948 e. e. $433,239; 12.37 mi. Highway 8291, Coram-Middle Island East Rd., Suffolk Co., to Conner Bros., Franklin Blvd., Long Beach, $514,421 e. e. $756,677. Grand total $1,094,627. Noted Oct. 13.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, etc. Catalpa Ave., to C. Kurth, 9519 126th St., Richmond Hill, $2,589; sidewalks, on Woodward St., to Kennedy & Smith, Bradford St., Flushing, $3,100; asphalt repaving Woodside Ave. and curbing and asphalt block repaving Skillman Ave., to W. P. MacDonald Constr. Co., Lawrence St., Flushing, $26,853 and $216,293 respectively. Grand total $248,835. Noted Sept. 15.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Welsh Bros., 35 Purvis St., grading and sidewalks on 74th St., $3,112, 58th Pl. $1,803, and 49th St. $3,432; to J. J. O'Brien, 8625 137th St., Jamaica, 137th St. $2,320, and Northern Blvd. $39,270; and to Kennedy-Smith, Inc., Bradford Ave., Flushing, 59th St. $3,750. Grand total $53,696. Noted Sept. 15.

N. J., Elizabeth—Union Co., grading and asphalt paving Raritan Rd. from Central to Madison Aves., to J. F. Burke, 309 Park Ave., Plainfield, $118,761.

N. J., Ridgefield—Bergen Co., Court House, Hackensack, concrete paving Bergen Turnpike between River Rd. and Hudson Co. line, to G. M. Brewster & Son, Fort Lee Rd., Bogota, $225,476.

N. J., Union—Twp. Com., paving Oswald Terrace to Decker & Canning, 395 Grove St., Newark, $28,265.

Maryland—State Roads Comn., Baltimore, concrete paving 0.06 mi. Contr. M-85, to Latimer & Maloney, 1910 Biltmore St., Wash., D. C. $7,920, and 1 mi. Contr. M-75, to T. Mullan, 3945 Greenmount Ave., Baltimore $30,000, both Montgomery Co., 0.3 mi. Contr. S-28, Somerset Co., to Hannemann-Burroughs Co., Salisbury $12,482, and 0.5 mi. Contr. P-79, Prince Georges Co., to Corson & Gruman Co., 33rd and K Sts., Wash., D. C., $14,393. Grand total $64,795. Noted Sept. 29.

Maryland—State Roads Comn., Baltimore, concrete paving 1 mi. Contr. C-59, Cecil Co., to J. K. Flick, Sudlersville, $25,682; 1.4 mi. Contr. M-82, Montgomery Co., to M. J. Grove Lime Co., Lime Kiln, $33,080; and 1.33 mi. Contr. M-91, Montgomery Co., to H. H. Hershberger, 3723 Reistertown Rd., Baltimore, $29,339. Grand total $88,101. Noted Sept. 15 and 22.

N. C., Winston-Salem—Smithdeal Realty & Investment Co., general contract paving Country Club Estate, to Saunders & Co., Winston-Salem, $50,000.

Ga., Savannah — Concrete paving, etc. 51st St., to Dixon Contg. Co., 793 East St. Julian St., $23,799. Engrs. est. $25,000.

Alabama—State Hy. Comn., Montgomery, **(F.A.P. means Federal Aid Project)** improving roadway between Cooks Springs and Leeds, St. Clair and Jefferson Counties, to S. C. Taylor, Birmingham $145,429, 18.448 mi. roadway S-192, Covington Co., to R. S. Taylor, Birmingham, $106,625; roadway between Livingston and State Line, S-27, Sumter Co., and 14.95 mi. roadway between Tuscaloosa and Hale Co. line, F.A.P. 190, Tuscaloosa Co., to Morgan Hill, Woodward Bldg., Birmingham $135,803 and $105,840 respectively; roadway S-190, Morgan Co., to Kass Constr. Co., Des Moines, Ia. $40,817, roadway from Jefferson Co. line and Jasper, F.A.P. 126-24, Walker Co., to S. Finley 212 West North Ave., Atlanta, Ga. $155,243, 2.63 mi. roadway between Wilton and Biff Co. line, S-44-C, Shelby Co., to E. P. Toulmin, Toulminville, Mobile $42,902; 17.367 mi. roadway from Florence to Tennessee State line, F.A.P. 195, Lauderdale Co., to Newell Contg. Co., 3828 Ave. A, Birmingham $165,890; 10.676 mi. roadway between Orrville and F.A.P. 169-A, F.A.P. 169-B, Dallas Co., to McGuire Bros., Tupelo, Miss. $76,272, and 3.24 mi. roadway from Chattahoochee River to F.A.P. 170-A, F.A.P. 170-B, Houston Co., to M. A. Dees, Newton, $23,783; also gravel surfacing 11.32 mi. roadway from Montgomery to Lowndes Co. Line, F.A.P. 155, Montgomery Co., to W. J. Bryson, Montgomery, $22,750. Grand total $1,021,354. Noted Sept. 22.

Alabama—State Hy. Dept., Montgomery, concrete paving 2.44 mi. roadway from

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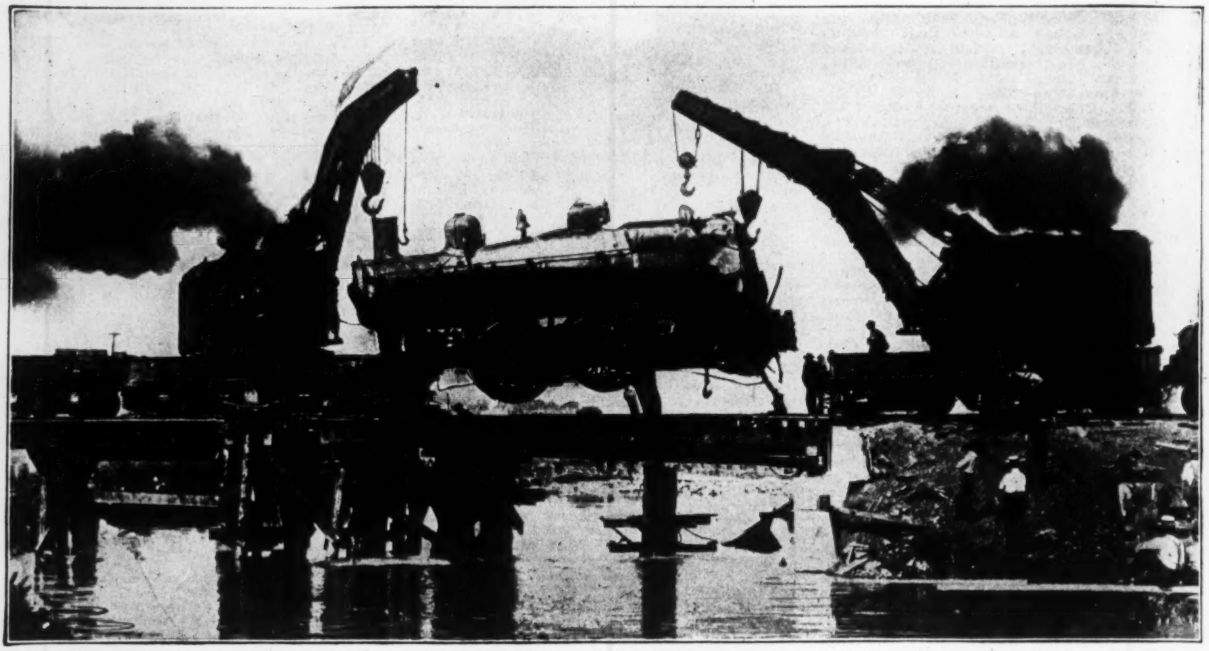

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INDUSTRIAL BROWNHOIST

Streets and Roads (Continued)

St. Deposit to Butler Co. line, Lowndes Co., to General Contg. Co., Stuart, Fla., $41,142; paving and graveling, etc., 9.913 mi. roadway between Bessemer and Tuscaloosa Co. line, Jefferson Co., to Coxt Bryson, Orlando, Fla. $51,679, and 18.09 mi. roadway between Tuscaloosa and Eutaw, Tuscaloosa Co. line, Green and Tuscaloosa Counties, to Nelson Bros., Clearwater, Fla., $258,434; gravel surfacing 17.5 mi. roadway between Brewton and Perdido Station, Escambia Co., to Chapman & Brown, Orlando, Fla. $39,829, and 17.865 mi. roadway between Belleville and Monroeville, Conecuh and Monroe Counties, to E. P. Toulmin, Toulminville, Mobile, Ala., $51,495. Grand total $442,579. Noted Sept. 15.

Ala., Birmingham — City Comn., **(e.e. means engrs. est.)** 6 in. concrete paving 1 block 2nd Court Alley and Ave. T., Ensley, 20 ft., to H. N. Ross, Valley Rd. Appts., $2,091 e.e. $3,000; 2 in. asphalt on 5 in. concrete paving 4 blocks 4th Court W., 30 ft., to H. N. Bowdry, Alabama Power Bldg., $22,502 e.e. $27,500; and 2 blocks 16th St. W. 40 ft., to H. N. Bowdry, Alabama Power Bldg., $11,043 e.e. $13,000. Noted June 2 and June 23.

La., West Monroe—Grading and granitoid paving 16.5 mi. various streets, to W. J. Horie, Euclid Ave., Jackson, Miss.

O., Cincinnati—Comrs. Hamilton Co., grading, guttering and concrete repaving, etc., 55,800 sq.yd. and asphalt macadam repaving, etc., 7,800 sq.yd. Cleves & Warsaw Rd., to Holmes Constr. Co., Central Parkway and Ann St., $369,239. Engrs. est. $406,344. Noted Sept. 15.

O., Columbus—W. H. Duffy, dir. Service, grading, curbing and paving, etc., 2,480 sq. yd. Ellsworth Ave., to A. W. Burns Constr. Co., 424 Woodland Ave., $15,069; also grading and asphalt paving, etc., 6,385 sq.ft. Wrexham Ave., to B. F. Patterson, 4476 North High St., $20,217. Noted Sept. 29.

O., East Liverpool—Concrete paving, etc. Harker Ave. between Sylvan and Central Aves., to G. B. Patterson, Wellsville, $25,297. Engrs. est. $25,000.

O., Lyndhurst (br. Cleveland)—Paving, etc., Lynd Ave., to H. G. Herring, Wayside Rd., Cleveland, $29,082.

O., Parma (br. Cleveland)—Village, to Thorp Constr. Co., Hippodrome Bldg., Cleveland, 3 in. sheet asphalt paving, etc. Southampton Dr. (Sect. 1) $49,999, Southampton Dr. (Sect. 2) $35,735 and Pelham Dr. $92,869; to Baldwin Bros., 4500 Euclid Ave., Cleveland, 2½ in. Macite paving Hampstead Dr., $33,456. Grand total $212,059.

O., Salem—Bd. Control, asphalt resurfacing New Garden St., to Kelley & Meyer Co., South Side Bank Bldg., Youngstown, $25,230. Engrs. est. $25,779. Noted Apr. 14.

O., Shaker Heights (br. Cleveland)—Oil asphalt paving, etc. 12 streets, to Highway Constr. Co., Guarantee Title Bldg., Cleveland, approximately $300,000.

Ind., Bloomington—Concrete paving 1,069 ft. various streets, 56 ft., to Bus Kirk & Dodds, North College Ave., $28,730; and 2,633 ft. various streets, 27 ft., to Kerr & Murphy, Indiana Ave., $31,961.

Ind., Brazil—Comrs. Clay Co., stone and gravel surfacing ½ mi. Lawson Roall Rd., to D. Stigler, Brazil, $3,984; 2 mi. Douglass Rd., to F. D. Pigg, Jasonville, $13,248; and 4½ mi. Tiefel Rd., to W. J. McGuire, Brazil, $48,233. Grand total $65,465. Noted Sept. 22.

Ind., Lebanon—Comrs. Boone Co., graveling Groves Rd., to E. S. Stansell, Advance $11,114, Cody Rd., to W. Calvert, Sheridan $6,018, Ogle Rd., to C. G. Howard, Sheridan $9,475, and Cavin Rd., to F. Long, Lebanon $10,690; also concrete paving McDaniel Rd., to Kornodle & Fulwider, Lebanon, $7,265. Grand total $44,562.

Ind., Marion—Grant Co., concrete paving New Linn Rd., to A. G. Brumfiel, Marion, $46,225.

Michigan—C. L. Cowgill, resident engr., Plymouth, concrete paving 4.743 mi. State Assessment Dist. Rd. 294, Oakland and Washtenaw Counties, 20 ft., to Meredith & McVaugh, 220 Horton Ave., Detroit, for State Hy. Dept., Lansing, $156,709. Noted Sept. 22.

Michigan — Wayne Co. (Detroit) and Macomb Co. (Mt. Clemens), grading and 8- 10-in. concrete paving 54,406 sq.yd. Eight Mile Rd. Assessment Dist. 471, to W. G. Tatti, 1337 Three Mile Dr., Detroit, $135,399.

Mich., Ann Arbor — Washtenaw Co., grading and 8 in. concrete paving approximately 2 mi. Huron River Dr., 20 ft., to Maurer Bros., Nashville, $53,354.

Mich., Detroit — Stone curbing and 3½ in. sheet asphalt on 8 in. concrete paving 43,600 sq.yd. Woodmont Rd. and 8 avenues, to Detroit Asphalt Paving Co., 909 Transportation Bldg., $166,714.

Mich., South Lyon—Oakland Co. (Pontiac) and Washtenaw Co. (Ann Arbor), 9-7- 9-in. concrete paving 55,655 sq.yd. Eight Mile Rd., here, to Meredith & McVaughn, 220 Horton Ave., Detroit, $119,026.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, paving, etc. Route 110, Sect. 115, to Stocker Gravel & Constr. Co., Highland $40,108; Route 72, Sect. 111, Carroll and Ogle Counties, to W. O'Neil Sons Co., Fairbault, Minn. $211,295; Route 175, Sect. 104, Peoria Co., to Hartmann-Clark Bros. Co., 330 Peoria Life Bldg., Peoria $40,022; Route 88, Sect. 102, Whiteside Co., to Cameron, Joyce & Co., Keokuk, Ia. $156,109; Route 127, Sect. 112, Clinton Co., to Casey Constr. Co., Casey $102,424; Route 78, Sect. 135, Fulton Co., to Sutton & Moore, Canton $18,481; Soldiers and Widows Home Rd., Will Co., to Booth & Gilchrist, Gardner $19,756; and Route 121, Sects. 141, 142 and 143, Piatt, Moultrie and Douglas Counties, also bridge on Route 121, Sect. 141-B, Piatt and Moultrie Counties, to McMahan Constr. Co., Rochester, Ind. $378,000; graveling Route 72, Sect. 113-A, Carroll Co., to Stevens Bros., 612 Endicott Bldg., St. Paul, Minn. $31,528, and Route 4, Sect. F-1-G, Madison Co., to Edwardsville Constr. Co., Edwardsville $2,832; grading, Route 51, Sect. 102-A, Cook Co., to J. J. Dunnegan Constr. Co., Shenandoah, Ia. $92,227, Route 160, Sect. 134-A, Madison Co., to M. E. McGuire, 4012 College Ave., Indianapolis, Ind. $34,855, Route 89, Sect. 115-A, Bureau Co. and Route 116, Sect. 102-A, Tazewell Co., to S. J. Groves & Sons Co., 306 Globe Bldg., Minneapolis, Minn., $32,779 and $35,766 respectively. Grand total $1,196,182. Noted Sept. 8.

Ill., Chicago—Cook Co. Highway Dept., 139 North Clark St., grading and paving 1.5 mi. Wolf Rd., to Pronger Bros., Blue Island, $244,300; 3.5 mi. Rexford Rd., to J. Macklin Co., Chicago Heights, $126,896; 2.6 mi. Main St., to Arcole Constr. Co., Evanston, $88,612; also 0.1 mi. Main St. and 0.5 mi. Harlem Ave., to Municipal Paving Co., Oak Park, $4,779 and $7,430 respectively. Grand total $472,017.

Ill., Niles Center—Curbing, guttering and rein.-con. paving 32,965 sq.yd. Lonnquist Ave., to Krenn & Dato, 926 North Michigan Ave., Chicago, $113,283. Noted Sept. 1.

Ill., Ridge Park—See "Sewers."

Ia., Albia—Monroe Co., grading, 6 in. concrete paving, etc., 89,646 sq.yd. U. H. Highway 34, to Wright Constr. Co., 1325 Main St., Des Moines, $270,627.

Ia., Emmetsburg — Palo Alto Co., to Brereton & Bauck, Emmetsburg, improving secondary roads, 7,750 cu.yd. gravel 1 mi. haul at $0.38 and $0.40 per cu.yd., 21,500 units overhaul $0.07, and 4,400 cu.yd. stripping $0.20.

Ia., Jefferson—Greene Co., to J. R. Paul, Jefferson, improving secondary roads, 1,200 cu.yd. gravel 1 mi. haul at $0.30 per cu.yd., and 18,400 cu.yd. overhaul $0.07; to J. A. Hobbs, Farlin, 1,800 cu.yd. gravel 1 mi. haul $0.33, and 8,200 units overhaul $0.08; to W. D. Ferguson, Dana, 2,000 cu.yd. gravel 1 mi. haul $0.32, and 10,000 units overhaul $0.07; to N. E. Hendricks, Scranton, 37,350 units 1 mi. haul $0.28 and $0.32, and 41,950 units overhaul $0.066 and $0.07.

Ia., Knoxville—Marion Co., grading 7.615 mi. Hamilton-Monroe Co. line Rd., to J. H. Miller & Son, Dumont, $51,008.

Ia., Primghar—O'Brien Co., grading, 6 in. concrete paving, etc. 189,401 sq.yd. Primary Project 545, to C. F. Lytle Constr. Co., 504 Nebraska St., Sioux City, $419,264.

Ia., Sigourney—Keokuk Co., to Natl. Constr. Co., 1315 South 20th St., Omaha, Neb., improving 11.096 mi. Primary Project 489, and 1.567 mi. Federal Aid Project 34, 27,494 cu.yd. excav. at $0.50 per cu.yd., and 133,636 sq.yd. concrete paving $2.32.

Ia., Toledo—Tama Co., grading 231,716 cu.yd. U. S. Highway 30, to G. W. Condon, 415 Farnum St., Omaha, Neb., $43,312.

Ia., Vinton—Benton Co., to Natl. Constr. Co., 1315 South 20th St., Omaha, Neb., improving 9.037 mi. Federal Aid Project 251-A, 16,900 cu.yd. excav. at $0.50 per cu.yd. and 95,763 sq.yd. concrete paving $2.34.

Ia., Vinton — Benton Co., to McCoy & Nelson, Nevada, improving secondary road system, 17,640 cu.yd. gravel 1 mi. haul at $0.26 and $0.34 per cu.yd., 224,000 units overhaul $0.065 and $0.08, and 9,000 cu.yd. stripping $0.20 and $0.24; to G. A. Sargent, Hamton, 13,140 cu.yd. gravel 1 mi. haul $0.38, 87,380 units overhaul $0.07, and 7,000 cu.yd. stripping $0.20.

Ia., Washington—Washington Co., grading and concrete paving, etc. 152,249 sq.yd. Primary Project 544-A, to Natl. Constr. Co., 1315 South 20th St., Omaha, Neb., at $2.32 per sq.yd.

Kan., Cottonwood Falls—Chase Co., to A. L. Cook, Ottawa, grading 8,452 mi. on US 50 S, Project 47-C, $64,984; to Wilson Constr. Co., Topeka, one 70 ft. steel truss and two 30 ft. i-beam span bridge, $13,671; to Somers Constr. Co., three 8 ft. multiple box span bridge $3,725, and 20 ft. slab span bridge $7,156; to Nolan Constr. Co., Ponca City, Okla., one 90 ft. steel truss span bridge $11,716, three 20 ft. slab span bridge $6,389, also one 70 ft. steel truss and two 35 ft. I-beam span bridge $15,984. Grand total $123,625. Noted Sept. 1.

Kan., Girard—Crawford Co., grading 3.575 mi. Kansas Project 7 Sect. B, Federal Aid Project 372-B, also constructing two bridges near Kniveton, to Independent Constr. Co., Pittsburg. $25,437.

Kan., Linn—Grading, curbing, guttering and gravel surfacing 54,566 sq.yd. various streets, to Cook & Stucker, Ottawa, $35,328. Noted Oct. 13.

Kan. Peabody — Curbing, guttering and asphaltic concrete resurfacing 17,200 sq.yd. Walnut, 1st and 2nd Sts., to J. W. Watts Constr. Co., Concordia.

Kan., Eureka — Clerk Greenwood Co., grading, etc. 6.609 mi. Project 71-A, 28 ft., to S. W. Poor, 927 Lincoln St., Topeka, $36,343. Engrs. est. $37,966. Noted Sept. 15.

Kan., Pratt—Pratt Co., grading 8.938 mi. US 54, Project 91-B, to Somers Constr. Co., Newton, $45,903. Noted Sept. 22.

Kan., Salina—Clerk Saline Co., grading and constructing 12 bridges on 9,775 mi. US 40-S, Federal Project 101-D, to A. L. Cook, Ottawa, $46,419 and $29,844 respectively.

Mo., Clayton — Comrs. St. Louis Co., Court House, 7 in. rein.-con. paving, etc., 3,050 sq.yd. Project 466, Edmund Ave., and 4,320 sq.yd. Louise Ave., to J. F. McMahon, 719 Buder Bldg., St. Louis, $9,550 and $12,894 respectively; concrete paving, etc., Project 431-A, Greenway St., to Skrainka Constr. Co., Security Bldg., St. Louis, $8,477; and Arden Ave., to Rock Hill Quarry & Constr. Co., Title Guaranty Bldg., St. Louis, $4,576. Grand total $35,497.

Mo., Warrenton—Amiesite paving, etc., 20,800 yd. various streets, to Cameron & Joyce, Keokuk, Ia., $32,600. Noted June 16.

Tex., Houston — Paving 33,500 sq.yd. Navigation Blvd. and Wayside Dr., to San Jacinto Constr. Co., 1st Natl. Bank Bldg., $137,136.

Oklahoma—State Hy. Dept., Oklahoma City, curbing and rock asphalt paving 16,200 sq.yd. State Road 3, to Western Paving Co., Tradesmens Bldg., Oklahoma City, $29,725. Engrs. est. $30,000.

Okla., Choctaw — Making preliminary plans grading and concrete paving 26,000 sq.yd. Nicholas Poultry farms. $75,000. C. Moreau, c/o G. A. Nichols, 115 North Harvey St., Oklahoma City, engr.

Okla., Muskogee — Vertical fibre brick surfacing 29,700 sq.yd. Okmulgee Ave., to Gravelle & Hamblin, Manhattan Bldg., $95,237, engrs. est. $100,000; and 15,300 sq.yd. South 24th St., to Ellis & Lewis, Muskogee, $55,400, engrs. est. $60,000.

Idaho — J. D. Wood, comr. State Hy. Comn., Boise, grading, crushed rock surfacing, etc., 10,200 cu.yd. Federal Aid Project 139-A Extension, Benewah Co., to S. Orin, 508 Realty Bldg., Spokane, Wash., $83,755.

Washington—State Hy. Comn., Olympia, grading, etc. 283,500 cu.yd. State Rd., 2, Federal Aid Project 114-D, Kittatis Co., to Interstate Constr. Co., 1713 22nd Ave. S., Seattle, $118,202.

Wash., Seattle—Bd. Pub. Wks., concrete sidewalks on West Eddy St. et al, to R. G. Stevenson, 1236 Northlake Ave., $35,391; and 7 in. concrete paving, etc., 41,265 sq.yd. Cloverdale St. et al, to Goetz & Brennan, Seaboard Bldg., $71,399.

Wash., Tacoma—Bd. Pub. Wks., paving McCarver and North 26th Sts., to S. A. Moceri, Inc., 924 23rd Ave., Seattle, $25,472. Engrs. est. $34,548.

Oregon—State Hy. Comn., Salem, grading, etc., 83,000 cu.yd. Project 134-A, Wheeler Co., to F. L. Brown, Portland, $75,000; concrete bridge on Project 115-B, Clatsop Co., to Lindstrom & Feigenson, Worcester Bldg., Portland, $19,730, and bridge on Project 117-C, Lane Co., to E. R. Metzger, Roseburg, $17,395. Grand total $112,125.

Oregon—State Hy. Comn., Salem, grading, etc., 3.92 mi. Williamette Highway, Lane Co., 24 ft., to Baker & Schwarschmidt, Portland, $53,889.

California—State Hy. Dept., Sacramento, concrete and bituminous macadam paving, etc. approximately 9.7 mi. roadway between Pismo and San Luis Obispo, San Luis

Streets and Roads (Continued)

Obispo Co., to J. F. Knapp, 620 East Washington St., Stockton; asphaltic concrete on concrete paving approximately 4.4 mi. roadway between Warm Springs Junction and Militas, Alameda and Santa Clara Counties, to Allied Contractors, Inc., 1803 Douglas St., Omaha, Neb.; grading and concrete paving 4.8 mi. roadway between Redlands and point ⅓ mi. north of Riverside Co., San Bernardino Co., to Matich Bros., Elsinore; bituminous macadam on existing asphaltic concrete paving, etc., between Four Corners and Butte City, Glenn Co., to C. K. Buchanan, Chico; one 30 ft. and two 14 ft. span rein.-con. girder bridge over Wilson Creek approximately 2 mi. north Willows, same count to Germain & Nickles, Gerber; concrete retaining wall near Sea Cliff, Ventura Co., to Hall Bros., Ventura; also 11.8 mi. rock borders on both sides existing paving between Williams and Delevan Colusa Co., to Hemstreet & Bell, Marysville.

California—State Hy. Comn., Sacramento, asphaltic concrete on concrete paving 4.4 mi. roadway between Warm Springs and Milpitas, Alameda and Santa Clara Counties, to Allied Contractors, Inc., Omaha, Neb., $141,153; grading and concrete paving 4.8 mi. roadway between Redlands and Riverside Co. line, San Bernardino Co., to Mattich Bros., Elsinore, $153,410; also bituminous asphalt and concrete paving, etc. 9.7 mi. roadway between Pismo and San Luis Obispo, San Luis Obispo Co., to J. F. Knapp Stockton, $386,848. Grand total $681,411. Noted Sept. 8.

Calif., Antioch—Grading and hydrated concrete paving, etc, portions 3rd, 8th and 10th Sts., etc., to G. W. Cushing, 2005 Roosevelt Ave., Richmond, $25,530. Noted Sept. 29.

Calif., Beverly Hills—Grading and 2 in. asphaltic concrete on 5 in. concrete paving 115,890 sq.ft., and 6 in. concrete paving 91,331 sq.ft. Benedict Canyon Dr., to Curtis Paving Co., 2440 East 26th St., Los Angeles, $67,767. Noted Sept. 29.

Calif., Fullerton—F. C. Hezmalhalch, city clk., curbing, guttering, and 5 in. asphaltic concrete paving, etc. North Harvard Ave., etc., to Griffith Co., Railway Bldg., Los Angeles, $36,448. Noted Sept. 29.

Calif., Glendale—Grading, curbing and 5 in. asphaltic concrete paving, etc. 236,136 sq.ft. Verdugo Rd., etc., to C. U. Heuser, 816 Allen St., $71,863.

Calif., Glendale — A. J. Van Vie, city clk., 6- to 8-in. concrete paving, etc. 175,550 sq.ft. Park and Glendale Aves., to E. L. Fleming, 221-A West Bway., $50,745. Noted Sept. 29.

Calif., Hawthorne—Asphaltic concrete resurfacing, etc., portion Ballona Ave., etc., to G. H. Oswald, 366 East 58th St., Los Angeles, $25,990.

Calif., Jackson — For 2½ in. asphaltic macadam paving, etc., Court St., etc., to Peres Bros., Richmond, at $0.0875 per sq.ft.

Calif., Long Beach — Grading, curbing, concrete paving, etc., 104,400 sq.ft. Nieto Ave., to D. P. Durham, 900 Raymond Ave., $27,596.

Calif., Los Angeles—Los Angeles Co., **(e.e. means engrs. est.)** improving 4,330 ft. Villa St., 80 ft., to J. E. Haddock, $38,983, e.e. $39,798; 14,960 ft. Dominguez St., 20 ft., to W. H. Gaff, 1921 Apex St., $88,093, e.e. $95,546; and 4,431 ft. Colorado St., 100 ft., to A. O. Nelson, Central Bldg., $26,463, e.e. $30,204. Grand total $153,539.

Calif., San Diego — Common Council, improving Goldfinch, Fairfield Sts., etc., to Pioneer Transfer Co., Calexico, $49,042. Noted Aug. 25.

Calif., San Diego—San Diego Co., grading and 8 x 5 x 8 in. concrete paving 68,225 sq.ft. and 9 x 6 x 9 in. concrete paving 288,089 sq.ft. 54th St. and Euclid Ave., to Penick & Son, 3075 L St., $125,688. Noted Sept. 8.

Calif., Yuba City—C. C. Kline, city clk., grading and 4 in. asphaltic concrete paving, etc. A St. and Robinson Ave., etc., to Warren Constr. Co., 28th and Poplar Sts., Oakland, $56,709. Noted Oct. 6.

B. C., Point Grey — Concrete curbing, guttering and warrenite bitulithic on rock paving various streets, to General Constr. Co. Ltd., 736 Granville St., Vancouver, $53,291.

Buildings—Commercial

Proposed Work

Mass., Boston—STORE and OFFICE—S. J. Lowe & E. N. Wyner, 1 State St., having plans prepared by R. H. Doane, 162 Newbury St., 3 story and basement, brick, steel and stone, plain foundation, 221 Washington St. $150,000.

Mass., East Boston (sta. Boston)—THEATRE, STORE, OFFICE and HOTEL—New England Community Theatre, Inc., c/o W. J. Freethy, archt., 113 State St., Boston, having sketches made 6 story and basement, 110 x 150 ft. brick, stone and steel, plain foundation, Maverick Sq., here. $250,000.

Mass., Hyannis—STORE and OFFICE—J. H. Johnson, 97 Massachusetts Ave., having plans prepared by J. W. Beal Sons Co., 185 Devonshire St., Boston, 3 story and basement, 75 x 210 ft., brick and stone, plain foundation. $160,000.

Mass., Lynn—APARTMENT—T. Palmer, Beach Bluffs, Swampscott, having plans prepared by B. E. Porter, 73 Tremont St., Boston, 3 story and basement, 60 x 200 ft., brick and stone, plain foundation, Beach Rd. $150,000.

Mass., Northampton—HOME—H. Ludorf, archt., 418 Asylum St., Hartford, Conn., soon lets contract 2 story and basement, brick and stone, plain foundation, Pell and Strong Aves., for White Eagles Home Assn., c/o architect. $150,000.

Mass., Revere — AMUSEMENT HALL and STORE — Ridgeway Constr. Co., 11 Pemberton Sq., Boston, plans rebuilding 2 story ballroom, amusement hall and store, Revere Beach, recently destroyed by fire. $300,000. Engineer and architect not selected.

N. Y., New York—APARTMENT—A. A. Paterno, 2300 Bway., having plans prepared by R. Candela, 578 Madison Ave., 14 story and basement, 67 x 75 ft. rein.-con., brick and steel, plain foundation, 25 Sutton Pl. $500,000.

N. Y., New York — APARTMENT — J. Paterno, 60 West 115th St., having plans prepared by R. Candela, 578 Madison Ave., 14 story and basement, 67 x 75 ft., rein.-con., brick and steel, plain foundation, Sutton Pl. $500,000.

N. Y., White Plains—CENTER—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, indefinitely postponed taking bids for Westchester Co. Center Building, here, Contr. 125. J. Downer, Bronxville, ch. engr. Noted Sept. 29.

N. J., Annandale—REFORMATORY—State Building Comn., Court House, Trenton, having plans prepared by Guilbert & Bettelle, 20 Branford Pl., Newark, brick and steel, plain foundation, here. $150,000. Noted Sept. 15.

N. J., Bayonne—CITY HALL—City having preliminary plans prepared by P. A. Vivarttas, 110 48th St., Union City, 4 story and basement, brick and steel, plain foundation. $250,000.

N. J., Bayonne—FIRE HOUSES—Fire Dept., Municipal Bldg., will not construct three 1 story and basements brick and steel, plain foundations, 57th St., Ave. B, and Point Section. $150,000. Project abandoned. Noted June 16.

N. J., Bradley Beach — APARTMENT HOTEL—Hotel La Reine Corp., M. Sparks, dir., Ocean Ave., having plans prepared by L. Brooks, 65 Madison Ave., New York City, 6 story and basement, brick and steel, plain foundation, La Reine Ave. $500,000. Noted Sept. 15.

N. J., Hackensack—HALL of RECORDS—Bd. Freeholders Bergen Co., Court House, having preliminary plans prepared by C. V. Rogert, 167 Main St., 5 story and basement, brick and steel, plain foundation, on 100 x 200 ft. site, Hudson St. $200,000.

N. J., Irvington (br. Newark)—APARTMENT—I. Bornstein, c/o E. F. Hauser, archt., 11 Clinton St., Newark, having plans prepared 4 story and basement, brick and steel, plain foundation, 616 Lyons Ave., here. $150,000.

N. J., Jersey City — APARTMENT — Fairmount Building Corp., c/o M. Kraut, archt., 14 Journal Sq., having plans prepared 5 story and basement, 75 x 150 ft., brick and steel, plain foundation, 329-335 Fairmount Ave. $250,000.

N. J., Jersey City—GARAGE—A. Davis, archt., 140 Montgomery St., soon takes bids general contract 1 and 2 story and basement, 200 x 300 ft., brick and steel, plain foundation, Mill Rd. from Mercer to Wayne Sts., for H. Byrne, 392 Mercer St. $150,000. Noted Sept. 22.

N. J., Jersey City—HOSPITAL—C. H. Ziegler, archt., 75 Montgomery St., takes bids about Oct. 24, general contract 5 story and basement, 40 x 150 ft., brick and steel, plain foundation, 9th and Erie Sts., for St. Francis Hospital, East Hamilton Pl. $300,000. Noted Aug. 4.

N. J., Jersey City—THEATRE—State Theatre Corp., 2852 Hudson Blvd., having plans prepared by P. A. Vivarttis, 110 48th St., Union City, 2 story and basement, brick and steel, plain foundation 288[illegible]8 Hudson Blvd. $200,000. Noted Sept. 1

N. J., Newark — APARTMENTS — A. Sobine, c/o S. Cohen, archt., 134 Branford Pl., having plans prepared two 5 story and basement, brick and steel, plain foundation, 970-76 18th Ave. $200,000.

N. J., Newark — HOSPITAL — Presbyterian Hospital, 25 South 9th St., soon lets contract general contract 6 story and basement, brick and steel, plain foundation, 9th Ave. and 9th St. $500,000. Sutton, Sutton & Calkins, 402 Broad St., archts. Noted Sept. 1.

N. J., Nutley—APARTMENT—N. Maria, c/o J. B. Acocella, archt., 9 Clinton St., Newark, having plans prepared 4 story and basement, 75 x 100 ft., brick and steel, plain foundation, 343-49 Park Ave. $150,000.

N. J., Orange—APARTMENT—H. C. Cassini, c/o A. P. Nucciarone, archt., 206 Central Ave., having plans prepared 4 story and basement, brick and steel, plain foundation, 278-282 Central Ave. $150,000.

N. J., Passaic—APARTMENT—P. Bellet, 422 Lexington Ave., Clifton, having plans prepared by Preiskel & Skvarla, 591 Main Ave., Passaic, 5 story and basement, 50 x 150 ft., brick and steel, plain foundation, 265 Pennington Ave.

N. J., Plainfield—APARTMENT—Oxford Realty Co., 240 West Front St., will not construct 5 story and basement apartment, 8th St. $150,000. Project abandoned. Noted July 14.

N. J., Plainfield—Y.M.H.A., 433 West Front St., plans 3 story and basement, brick and steel, plain foundation, on 132 x 230 ft. site, Central Ave. and 7th St. $150,000. Engineer and architect not selected. Noted Mar. 17.

N. J., Summit—APARTMENT—Owner, c/o E. P. Bonnet, archt., 36 Spring St., Montclair, having sketches made 5 story and basement, brick and steel, plain foundation, here. $150,000.

N. J., Trenton—APARTMENT—Ardmore Realty Co. having plans prepared by L. S. Kaplan, Fitzcharles Bldg., 5 story, limestone and marble, Greenwood Ave. $175,000.

N. J., Union City — APARTMENT — Owner, c/o P. O. Simone & Co., Inc., archts., 100 Sip Ave., Jersey City, having plans prepared 5 story and basement, 50 x 100 ft., brick and steel, plain foundation, here. $150,000.

N. J., Ventnor City (br. Atlantic City)—CITY HALL—City having plans prepared by V. B. Smith, Guarantee Trust Bldg., Atlantic City, 2 story and basement, brick and steel, plain foundation, Cambridge and Atlantic Aves., here. $150,000.

N. J., West New York—APARTMENT—Owner, c/o C. Eicholz, archt., 960 Bergenline Ave., Union City, having plans prepared 5 story and basement, brick and steel, plain foundation, here. $150,000. Noted Sept. 29.

Pa., Graterford — PENITENTIARY — State Bd. Trustees, A. W. Fleischer, pres., 1428 South Penn Sq., Phila., having plans prepared by Zimmerman, Saxe & Zimmerman, 212 East Superior St., Chicago, Ill., and Day & Zimmerman, superv. archts., 1600 Walnut St., Phila., Eastern Penitentiary, Skippock Twp., Montgomery Co., here.

Pa., Phila.—OFFICE—Maxwell Building Corp., C. J. Maxwell, 1528 Walnut St., having plans prepared by S. M. Green & A. H. Lacella, 496 Bridge St., Springfield, Mass., 21 story and basement, 95 x 136 ft. rein.-con., brick and steel, plain foundation, 16th and Walnut Sts. $1,500,000.

Pa., Phila.—WAREHOUSE and OFFICE—R. Dippy, archt., 1601 Walnut St., soon lets contract 1 story and basement, 40 x 160 ft. and 40 x 103 ft., rein.-con. and brick, plain foundation, Swanson and Johnson Sts., for Thomas Bros. Co., 1526 Washington Ave.

Va., Richmond—APARTMENTS—Monroe Terrace Realty Co. having plans prepared by A. C. Bossom, 680 5th Ave., New York City, Prestwood Apartments, 12 story, 100 x 135 ft. $800,000. Weinberger & Weishoff, 247 Park Ave., New York City, engrs.

Ga., Canton—COURT HOUSE and JAIL—Cherokee Co., c/o R. O. Fincher, had plans prepared by A. T. Brown, Forsyth Bldg., Atlanta, 4 story and basement, 80 x 90 ft., brick and concrete court house and jail. $200,000.

La., Shreveport—AUDITORIUM—Jones, Roessle, Olschner & Weiner, archts., 218 Ardis Bldg., soon take bids 1 or 2 story, rein.-con., brick and stone, 2,500 seating capacity, for City, L. E. Thomas, mayor. $500,000. Noted June 30.

O., Dover—Y. M. C. A. soon lets contract 3 story and basement, 66 x 150 ft., brick, steel and concrete, incl. swimming pool.

Buildings—Commercial (Continued)

$150,000. C. J. Marr, archt., and J. W. Mathias, engr., both 137½ Bway., New Philadelphia.

O., Sidney—LODGE—Directors Masonic Assn. plan lodge. $150,000.

Ind., South Bend—OFFICE—Building & Loan Assn., F. M. Boone, treas., 216 West Washington St., having plans prepared 6 story and basement, 48 x 66 ft., rein.-con., brick and stone, 216-218 West Washington Ave. $150,000. Private plans.

Mich., Battle Creek—SERVICE—Battle Creek Sanitarium having plans prepared by M. J. Morehouse, 343 South Dearborn St., Chicago, Ill., 4 story and basement, 120 x 180 ft., rein.-con., brick and stone service building incl. kitchen, dining room, etc. $300,000.

Mich., Pontiac—APARTMENT—Pontiac Properties Co., C. H. Harrison, 22822 Woodward Ave., Ferndale, having plans prepared by A. F. Herman, 710 Owen Bldg., Detroit, 3 story and basement, rein.-con., brick and steel, plain foundation, East Blvd., here. $250,000

Ill., Alton—TEMPLE—Masonic Lodges, c/o S. Landau, chn., having preliminary plans prepared 3 story, rein.-con., brick and stone temple. Engineer and architect not selected.

Ill., Chicago—APARTMENT—Quinn & Christensen, archts., 360 North Michigan Ave., soon takes bids 17 story and basement, 50 x 125 ft., brick, 5520 Sheridan Rd., for Syndicate, c/o architects. $1,000,000.

Ill., Chicago — APARTMENT — C. E. Howland, 104 Bellevue Pl., having preliminary sketches made by Huszagh & Hill, 6 North Michigan Ave., 16 story and basement, 94 x 129 ft., 102-10 Bellevue Pl. $1,300,000.

Ill., Chicago—Berlin & Swern, archts., 19 South La Salle St., soon lets contract 10 and 12 story, 150 x 150 ft., X shaped, brick and stone, Dearborn and Oak Sts., for Y.W.C.A., 59 East Monroe St. $1,000,000. Noted Nov. 11.

Ill., Granite City—STORE, OFFICE and HOTEL—S. J. Doumas having preliminary plans prepared by Wademeyer & Nelson, 824 Wainwright Bldg., St. Louis, Mo., 3 story, basement and roof garden, 100 x 125 ft., rein.-con., brick, terra cotta and stone store, office and hotel. $250,000.

Ia., Waterloo — STORE — James Black Dry Goods Co., East 4th and Sycamore Sts., having plans prepared by J. S. Bartley, 901 Pioneer Natl. Bank Bldg., 8 story and basement, 70 x 99 ft., rein.-con., brick terra cotta or stone addition, plain foundation. $400,000. Noted Dec. 16.

Minn., Minneapolis — APARTMENT HOTEL — Anderson-Nelson Constr. Co., 2801 Park Ave., having plans prepared by Newstrom-Lindquist, 810 Lumber Exch. Bldg., 8 story and basement, 204 x 260 ft., rein.-con. and brick apartment hotel, incl. basement garage with ramps, etc., 22nd St. and Pleasant Ave. $2,100,000.

Ark.., Helena—THEATRE, LODGE and OFFICE—Reynolds Lodge 7, Knights of Pythias, C. H. Gotchell, chancellor commander, takes bids about Jan. 1, 5 story, 100 x 200 ft., rein.-con., brick and stone theatre, lodge and office building. $250,000. Engineer and architect not announced. Noted Oct. 6.

Tex., Greenville — COURTHOUSE and JAIL—Hunt Co., c/o N. E. Peak, co. judge, voted $400,000 bonds, 3 story and basement, rein.-con. and brick, plain foundation.

Okla., Cushing — HOTEL — Thompson Hotel Co. having preliminary plans prepared 7 story and basement, 75 x 140 ft., brick, plain foundation, 3rd St. $240,000. Engineer and architect not selected.

Wash., Hoquiam—THEATRE—E. Dolan having plans prepared 2 story and basement, 95 x 150 ft., concrete, stucco and terra cotta, 7th and J Sts. $150,000.

Wash., Seattle — FIRE HOUSE — Fire Dept. having plans prepared by F. Baker, city archt., Hoge Annex, 3 story and basement, 108 x 120 ft., 2nd St. S. and Main St. $210,000.

Calif., Hanford—HOTEL—E. M. Whilton, Hotel Tulare, Tulare, plans approximately 3 story, 125 x 150 ft., fireproof, Redington St., here. $200,000. Engineer and architect not selected.

Calif., Long Beach—APARTMENTS—Realty Development Trust Co., Laughlin Bldg., plans approximately 7 story and basement apartment. $250,000.

Calif., Los Angeles—APARTMENT—E. Small, 6912 Hollywood Ave., E. M. Asher, 112 North Serano St., and C. Rogers, 234C West Vernon St., had sketches made by Walker & Eisen, 117 Western Pacific Bldg., 12 story, rein.-con., Rossmore Ave. near Beverly Blvd. To exceed $150,000.

Calif., Los Angeles — OFFICE — Los Angeles Realty Bd. having preliminary plans prepared by J. J. Frauenfelder, Story Bldg., H. S. Johnson, Los Angeles Ry. Bldg., A. C. Martin, 2001 North Vine St., M. Meyer, 570 North Normandie St., and L. T. Mayo, Black Bldg., rein.-con., 1147 South Grand Ave. $150,000.

Calif., Los Angeles — STORE and OFFICE—F. R. Strong, Rives-Strong Bldg., T. B. Barnett, W. R. Wheat, 112 West 9th St., and E. Riggs, plan 6 story and basement store and office building, on 110 x 130 ft. site, Hollywood Blvd. between Wilcox and Cahuenga Aves. $500,000. Engineer and architect not selected.

Calif., Merced — THEATRE — Merced Theatre Co., c/o M. T. Jorgensen, archt., 742 Market St., San Francisco, having plans prepared 2 story, brick and concrete theatre, 1,500 seating capacity. $150,000.

Calif., Pasadena — AUDITORIUM—City plans auditorium. $1,000,000.

Calif., San Francisco—APARTMENT—T. I. Strand, 882 31st Ave., having preliminary plans prepared by R. R. Irvine & L. Ebbets, Call Bldg., 6 story and basement, rein.-con., Buchanan St. near Washington St. $150,000.

Calif., San Francisco—GARAGE and OFFICE—F. C. Morgan, et al, Hunter-Dulin Bldg., having plans prepared by Miller & Pflueger, 580 Market St., 33-40 story and basement, Sutter St. $4,750,000.

Calif., San Francisco — HOSPITAL — Lane Hospital, Clay and Webster Sts., having preliminary plans prepared by Bakewell & Brown, 251 Kearny St., hospital buildings, Clay and Webster Sts. $1,000,000.

Calif., San Francisco—HOTEL and OFFICE—Commercial Center Realty Co., 916 Kearny St., plans 8 story and basement, fireproof, Filbert St. and Grant Ave. $250,000.

Calif., Santa Barbara—HOTEL—A. L. Richmond and associates, Los Angeles, having plans prepared by G. S. Underwood, 1405 Hibernian Bldg., Los Angeles, 3 story, 210 x 433 ft., rein.-con., State St. $500,000.

Calif., Santa Monica—OFFICE—L. T. Mayo, et al, Black Bldg., having preliminary plans prepared by A. E. Harvey, Black Bldg., 6 story and basement, 7th St. and Wilshire Blvd. $150,000.

Calif., South Pasadena—CLUB HOUSE and THEATRE—South Pasadena Womens Club having plans prepared by Morgan, Walls & Clements, 1134 Van Nuys Bldg., Los Angeles, rein.-con., Marengo Ave. and Oak St. $200,000

B. C., Vancouver—BANK and OFFICE—Royal Bank of Canada, 147 St. James St., Montreal, Que., C. E. Neill, genl. mgr., plans bank and office, Hastings and Granville Sts. $1,500,000-$2,000,000. Engineer and architect not announced.

Mexico, Matamoras — HOTEL — See "Unclassified."

Bids Desired

Conn., New Haven—LODGE and CLUB—Oct. 22, by Lodge of Elks, c/o S. E. Hoyt, 195 Church St., 6 story, brick and steel, Crown St. $300,000. A. W. Boylen, 30 Whitney Ave., archt. Noted Sept. 15.

N. Y., Brooklyn—OFFICE and STORE—Oct. 30, by B. H. Whinston, archt., 6 East 46th St., New York City, 1 and 3 story, office and store building, Adams and Willoughby Sts., here, for Silvers Lunch Stores, Inc., 510 West 53rd St., New York City. $250,000.

N. Y., Greenwood Lake—HOTEL—Bearfort Inn taking bids general contract 2 story and basement, 100 x 120 ft., brick and steel, plain foundation, here. $150,000. H. Robertson, 614 Central Ave., East Orange, N. J., archt.

N. Y., Jackson Heights (sta. Flushing)—APARTMENTS — Twenty Fourth Street Impvt. Co., c/o Schaffer Lake, 1457 Bway., New York City, taking bids 6 story and basement, brick and timber, 24th St. and Roosevelt Ave. $350,000. B. H. Whinston, 6 East 46th St., New York City, archt.

N. Y., West New Brighton — COURT HOUSE — Oct. 26, by G. A. Lynch, pres. Richmond Boro, Boro Hall, St. George, general contract combined municipal and magistrates court building, here. Sibley & Fetherston, 101 Park Ave., New York City, archts. Noted Sept. 29.

N. J., East Orange—APARTMENT—See "Contracts Awarded."

N. J., Hackensack—MEDICAL—A. M. Bedell, archt., 21 North Broad St., Ridgewood, taking bids 4 story and basement, 50 x 89 ft., brick and steel, plain foundation, Anderson St., here, for Hackensack Medical Building Assn., 273 State St. $150,000.

N. J., Jersey City—BANK—J. T. Rowland, Jr., archt., 30 Journal Sq., taking bids general contract 1 story, mezzanine, and basement, 50 x 100 ft., brick and steel, plain foundation, Bergen and Harrison Aves., for Provident Institution for Savings, W. Robinson, vice pres., 239 Washington St. $150,000. Noted Sept. 8.

N. J., Newark — APARTMENT — See "Contracts Awarded."

N. J., Paterson — APARTMENT — See "Contracts Awarded."

N. J., Paterson—STORE and OFFICE—Oct. 21, by J. Holt, archt., 132 Market St., general contract 5 story and basement, 75 x 100 ft., brick and steel, plain foundation, Hamilton Ave., for Lee Hamilton Building Corp., c/o architect. $300,000.

N. J., Ridgefield Park — GARAGE — M. Zimmerman, 376 Main St., taking bids (selected list of bidders) general contract 2 story and basement, 75 x 200 ft., brick and steel, plain foundation, Spruce St. $150,000. F. Meisler, 163 Main St., Hackenhack, archt. Noted Sept. 29.

Pa., Elizabethtown — HOSPITAL — Oct. 25, by Dept. Pub. Health, T. B. Appel, secy., Capitol, Harrisburg, Unit 3 Crippled Childrens Hospital, 2 wings, each 2½ story, 17 x 51 ft., rein.-con. and brick, plain foundations, here. Thomas, Martin & Kirkpatrick, 220 South 16th St., Phila., archts.

Md., Baltimore—OFFICE—Oct. 26, by Wyatt & Nolting, archts., Keyser Bldg., 5 story top addition, and 12 story, 40 x 42 ft. brick and limestone addition, Calvert and Redwood Sts., for U. S. Fidelity & Guaranty Co., Calvert and Redwood Sts. $450,000. Noted July 28.

Miss., Pass Christian — HOTEL — See "Contracts Awarded."

O., Akron — HOSPITAL — City taking bids and open same about Oct. 28, 8 story and basement, 46 x 180 ft., brick, steel and concrete hospital. $600,000. Good & Wagner, Mohawk Bldg., archt. A. G. Simon, Hippodrome Bldg., Cleveland, structural engr. Noted Feb. 3.

O., Cincinnati—HOSPITAL—Nov. 1, by Comrs. Hamilton Co., 5 story and basement, 50 x 148 ft., brick and rein.-con., plain foundation, Gurley Rd. $250,000. G. Drach, 1701 Union Trust Bldg., archt.

O., Cleveland—CLUB HOUSE—Chagrin Valley Country Club, c/o H. D. Sims, pres., B. F. Keith Bldg., taking bids 1 and 2 story, 149 x 192 ft., brick, steel and concrete, North Miles Rd. $150,000. Maier & Walsh, 7016 Euclid Ave., archts.

Mich., Detroit — APARTMENT — See "Contracts Awarded."

Mich., Flint—HOTEL—Wright & Nice, archts., South Saginaw St., taking bids and open same about Oct. 28, 6 story and basement, rein.-con., brick and stone, plain foundation, for United Hotel Co., Durrant Hotel. $300,000.

Ill., Chicago—APARTMENT—S. Monson, 8207 St. Lawrence Ave., taking bids 3 story and basement, 117 x 124 ft., brick and stone, Essex Ave. and 77th St. $250,000. T. R. Bishop & Son, 35 South Dearborn St., archt.

Ill., Chicago — APARTMENT — R. F. France & Co., archts., 155 North Clark St., taking bids and opens same about Oct. 24, 13 story and basement, 60 x 135 ft., rein.-con. brick and terra cotta, 5820 Kenmore Ave., for Syndicate, c/o architects. $600,000. Noted Sept. 22.

Okla., Tulsa—OFFICE—Oct. 24, by L. C. Retts, secy. Oklahoma Natural Gas Co., 117 West 4th St., 10 story and basement, 47 x 140 ft., rein.-con. and brick, plain foundation. A. M. Atkinson, Mid-Continent Bldg., archt.

Calif., Berkeley—HOTEL—W. H. Weeks, archt., 369 Pine St., San Francisco, taking bids 6 story and basement, rein.-con., Durant Ave., here, for Berkeley Hotel Corp., c/o architect. $450,000.

Calif., Los Angeles—THEATRE—P. N. Snyder, c/o Balch Bros., archts., Film Exch. Bldg., taking bids 2 story, 80 x 150 ft., rein.-con., 1,600 seating capacity, Whittier and Atlantic Blvds. $150,000.

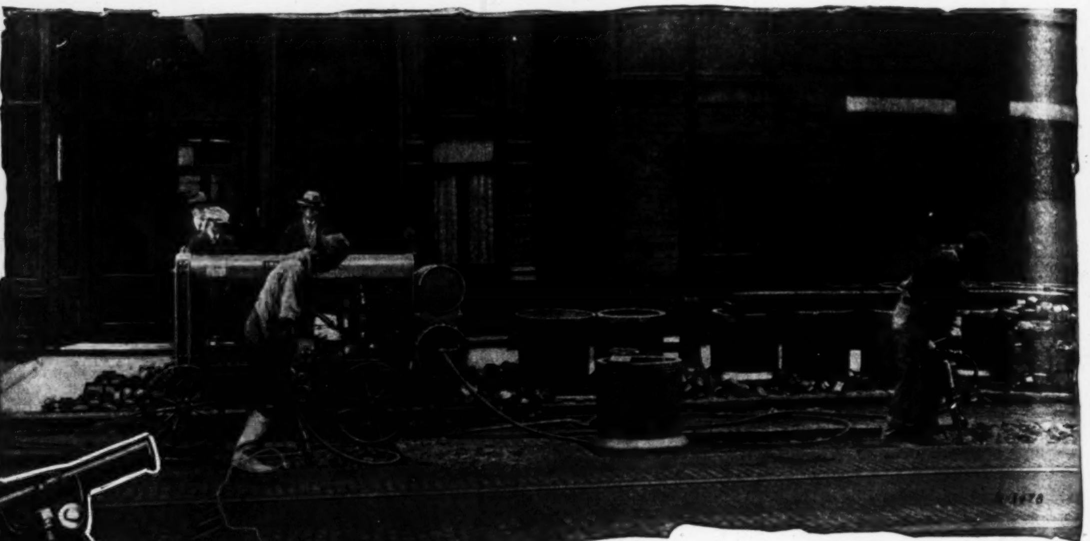
Contracts Awarded

Mass., Boston—HOSPITAL—City, Hospital Dept., 7 story and basement, brick and limestone, quarters for house officers and interns, plain foundation, Harrison Ave., to J. A. Singarella, 110 High St., $393,600.

Mass., Long Island (br. Boston)—DORMITORY — City of Boston, Institution Dept., City Hall, 4 story and basement men's dormitory, rein.-con. and brick, plain foundation, Long Island Hospital, here, to F. Imhoff, 164 Dudley St., Roxbury, $425,000. Noted Oct. 29.

N. Y., Amsterdam—BANK and OFFICE—First Natl. Bank of Amsterdam, 7 story, 60 x 90 ft., rein.-con., brick and stone, concrete pile foundation, to J. J. Turner & Sons, Edward St. Archts. est. $300,000. Noted June 30.

N. Y., New York — LOFT — Three Hundred Five East 47th St. Corp., c/o F.



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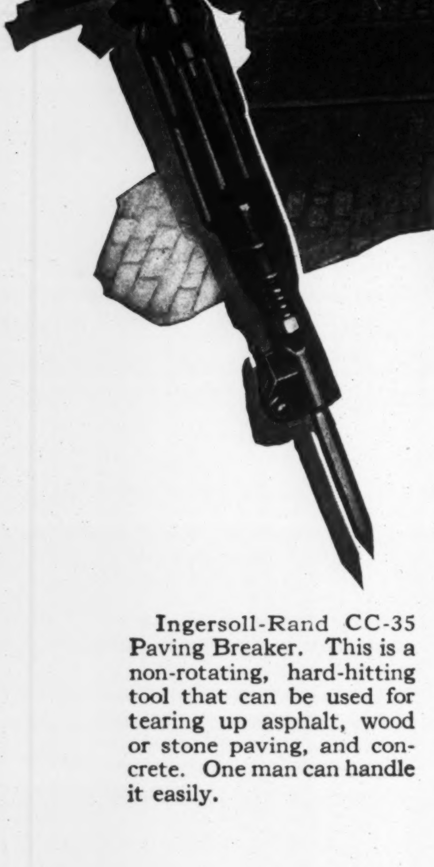

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Buildings—Commercial (Continued)

Parker, archt., 280 Madison Ave., 12 story and basement, 75 x 100 ft., brick and steel, plain foundation, 305 East 47th St., to Fisher-Williams Co., 103 Park Ave. Archts. est. $400,000.

N. J., Bloomfield—CITY HALL—City, Bloomfield Ave., general contract 3 story and basement, brick and steel, plain foundation, Franklin St., to D. J. Cronin, 713 South Orange Ave., Newark, $278,500. Noted Sept. 8.

N. J., Clifton (Ind. br. Passaic)—BANK and OFFICE—Clifton Natl. Bank, Main Ave., general contract 2 story, basement, and mezzanine, 45 x 100 ft., and 45 x 85 ft., brick and steel, plain foundation, Main Ave., to Wigton-Abbott Corp., 522 North 23rd St., New York City. Archts. est. $150,000.

N. J., East Orange—APARTMENT—Glenwood Apartment Co., c/o N. Gornitzke, 137 North 9th St., Newark, will build 4 story and basement, brick and steel, plain foundation, 210 Glenwood Ave. $200,000. Work will be done by separate contracts. R. Botelli, 45 Branford Pl., Newark, archt. Noted Sept. 29.

N. J., Elizabeth—HOSPITAL—L. V. Pohlman, archt., 80 Broad St., general contract 5 story and basement, 60 x 117 ft., brick and steel, plain foundation, 7th and East Jersey Sts., to W. Dana Bigelow, Inc., 10 East 43rd St., New York City, for Alexian Bros. Hospital, 7th and East Jersey Sts. $300,000. Noted Aug. 4.

N. J., Newark—APARTMENT—Victory Building Corp., 20 Branford Pl., will build 4 story and basement, 80 x 130 ft., brick and steel, plain foundation, 538 Summer Ave. $250,000. Work will be done by separate contracts. H. Rosensohn, 188 Market St., archt.

N. J., Newark—APARTMENT—Schwartz & Cohen, c/o R. Botelli, archt., 45 Branford Pl., will build 5 story and basement, 75 x 140 ft., brick and steel, plain foundation, 244 Roseville Ave. $150,000. Work will be done by separate contracts. Noted Oct. 6.

N. J., Newark — APARTMENT — A. Sobine, c/o S. Cohen, archt., 134 Branford Pl., will build 5 story and basement, 75 x 100 ft., brick and steel, plain foundation, 970-6 18th Ave. $200,000. Work will be done by separate contracts.

N. J., Newark—APARTMENTS—G. and K. Realty Co., c/o A. J. Silberstein, archt., 60 Park Pl., will build six 3 story and basement, brick and timber, plain foundation, 339, 361, 360, 328, 321 and 329 Keer Ave. $200,000. Work will be done by separate contracts.

N. J., Paterson—APARTMENT—East Side Realty Co., c/o W. F. Glasser & Co., 126 Market St., will build 5 story and basement, 75 x 100 ft., brick and steel, plain foundation, 33rd St. $500,000. Work will be done by separate contracts. A. Haenecken, 126 Market St., archt.

N. J., Plainfield—MASONIC CLUB—F. B. and A. Ware, archts., 1170 Bway., New York City, general contract 5 story and basement, 110 x 125 ft., brick and steel, plain foundation, 621 Park Ave., to Wigton-Abbott, 522 West 23rd St., New York City, for Masonic Realty Assn., 127 Watchung Ave. Archts. est. $325,000. Noted Sept. 22.

Pa., Pittsburgh—HOSPITAL—Tuberculosis League of Pittsburgh, 2851 Bedford St., general contract 6 story and basement, irregular shaped, brick and steel infirmary hospital, to Mellon Stuart Co., Oliver Bldg. Archts. est. $500,000.

Ga., Atlanta—OFFICE—Crum & Foster, Inc., 170 Spring St., 3 story, 35,000 sq.ft. floor space, brick and stone office building to Carr Constr. Co., Candler Bldg., $200,000. Noted Jan. 13.

Ont., Toronto—HOTEL—Canadian Pacific Ry., H. O., Windsor Sta., Montreal, Que., general contract 28 story and basement, 1,000 room, brick, steel and stone, Front St., here, to Anglin Norcross Ltd., Temple Bldg.; wrecking existing structures, to Frankel Bros., Eastern St. and excavation to Dufferin Constr. Co., foot of Bathurst St. Archts. total est. $10,000,000. Noted April 7.

Ala., Birmingham — OFFICE — Warren, Knight & Davis, archts., Empire Bldg., 16 story, 55 x 100 ft., brick, terra cotta, granite and steel, 20th St., to C. M. Allen & Son, 408½ North 19th St., for T. H. Watts, Jr., and mother. $1,000,000.

Miss., Pass Christian — HOTEL — A. Lichentag, 5422 Willow St., New Orleans, La., will build 2 story, 90 x 270 ft., rein.-con., hollow tile and stucco hotel, here. $250,000. Work will be done by separate contracts. Private plans.

Ky., Newport—BANK—Newport Natl. Bank, 5th and York Sts., 3 story and basement, rein.-con. and brick, plain foundation, 8th and Monmouth Sts., to Lehigh Constr. Co., 1021 Monmouth St. $150,000. Noted June 2.

O., Cleveland Heights (Warrensville P. O.)—COMMERCIAL and APARTMENT—B. D. Roseman, pres. Midland Mortgage Co., Society for Savings Bldg., Cleveland, 3 story and basement, 60 x 140 ft., brick, here, to M. Berkoff, 3346 Washington Blvd. Archts. est. $150,000.

Ind., Hammond — STORE — Kaufman & Wolf, general contract Lion Store, 110 x 185 x 293 ft., rein.-con., brick and stone, Hohman St., to H. B. Olney Co., East Chicago. Archts. est. $1,250,000.

Ind., Indianapolis — APARTMENT — Constr. Realty Co., 1017 East 19th St., general contract 7 story and basement, 60 x 81 x 169 ft., rein.-con. and brick, 3727 North Meridian St., to T. A. Moynahan Co., 710 Union Title Bldg. Archts. est. $205,000.

Mich., Detroit — APARTMENT — H. Dunitz, 336 Dime Bank Bldg., will build 4 story and basement, 90 x 150 ft., brick and steel, plain foundation, Highland Ave., by day labor. $175,000.

Ill., Decatur — TEMPLE — Holabird & Roche, archts., 104 South Michigan Ave., Chicago, general and pipe trades contract 4 story, 101 x 191 ft., brick and stone, West Williams and North Church Sts., here, to J. L. Simons & Co., 549 West Washington Blvd., Chicago, and Bloomington, for Masonic Temple Assn. Noted July 21.

Wis., Milwaukee — PUBLIC SAFETY — Dept. Pub. Wks., R. E. Stoelting, comr., excavation, foundation, rein.-con., brick masonry, lath and tile work, elevators, etc., for 6 story and basement, 135 x 235 ft., brick and steel, 8th, 9th, State and Cedar Sts., to Bentley Bros., 808 South Pierce St., $644,630; composition roofing, etc., to Uihlein & Ortmann Electric Co., 160 Ogden Ave., $71,989; furnishing cut stone, to Andres Stone & Marble Co., Keefe and Richard Sts, $108,400; structural steel, bronze work, etc., to Siesel Co., 160 Ogden Ave., $241,000; plumbing, to Wensel & Henoch, 498 27th St., $75,942; and heating, ventilation, etc., to Zuchlke-Stoehn Heating Co., 1707 Clyburn St., $81,290. Grand total $1,223,251. Noted Aug. 25.

Minn., Minneapolis — CLUB HOUSE — Calhoun Beach Holding Co., E. R. Buell, secy., Lincoln Natl. Bank Bldg., general contract 8 story and basement, 127 x 231 ft., rein.-con., brick and stone, Dean Blvd. and West Lake St., to Fleischer Eng. & Constr. Co., 407 Loeb Arcade Bldg. Archts. est. $1,320,000.

Neb., Kimball—COURT HOUSE—Kimball Co., D. T. Heynen, clk., 3 story and basement, 69 x 100 ft., rein.-con., brick and steel, here, to Wallace Knutzen & Son, Kearney. Archts. est. $175,000. Noted Sept. 22.

S. D., Watertown — COURT HOUSE — R. H. Stein, aud. Codington Co., general contract 2 and 3 story and basement, rein.-con., brick and stone court house, to Gray Constr. Co., Watertown. Archts. est. $300,000. Noted Sept. 22.

Mo., St. Louis — COMMERCIAL — Argerter & Bailey, archts., 1904 Ry. Exch. Bldg., 4 story and basement, 25 x 104 ft., rein.-con. and brick, Pine St. near 11th St., to Murch Bros. Constr. Co., Ry. Exch. Bldg., for A. H. Eilers, 4950 Warwick St. Noted Sept. 29.

Tex., Ft. Worth—APARTMENT—A. M. Pancost and Churchill-Humphreys Co., 207 Magnolia Bldg., Dallas, 12 story and basement, stone, steel and rein.-con., Forest Park Blvd., to Churchill-Humphrey Co., 207 Magnolia Bldg., Dallas, $400,000.

Okla., Chickasha — OFFICE — Southwestern Light & Power Co., Braniff Bldg., Oklahoma City, 3 story and basement, 50 x 140 ft., rein.-con. and brick, plain foundation, here, to Cowen Bros., Shawnee, $153,000. Noted Feb. 24.

Okla., Oklahoma City — HOSPITAL — State Bd. of Affairs, c/o G. C. Wollard, 4 story and basement crippled children hospital, rein.-con. and brick, plain foundation, to Campbell & Price, 603½ West Main St. $298,552.

Okla., Tulsa — HOSPITAL — Junior League Assn., Cinncinatti St., part 2 story and basement, 125 x 125 ft. with two 20 x 40 ft. wings, rein.-con., brick and steel, South Lewis Sts., to G. D. Morrow & Son, Kennedy Bldg., $150,000.

Calif., Decoto — DORMITORY — Bd. Trustees Masonic Homes, general contract two 4 story buildings, to R. W. Littlefield, 357 12th St., Oakland, $130,942. Noted Sept. 22.

Calif., Los Angeles—GARAGE—A. T. Pelton, 6001 Santa Monica Blvd., 6 story, 100 x 125 ft., rein.-con., 8th and Normandie Sts., to C. L. Peck, H. W. Hellman Bldg., approximately $200,000. Noted June 16.

Calif., Los Angeles—HOTEL—Western Income Properties, 1013 North Sycamore Ave., will build 6 story and part basement, 66 x 80 ft., rein.-con., Hudson Ave. north of Hollywood Blvd. $150,000. H. A. Lincoln, 247 North Western Ave., archt. M. Falk, Washington Bldg., engr.

Calif., San Francisco—APARTMENT—A. Hansen, c/o Clausen & Amandes, archts., Hearst Bldg., 4 story and basement, brick and concrete, Liberty and Sanchez Sts., to E. V. Lacey, Hearst Bldg., approximately $150,000.

Calif., Santa Ana—STORE and OFFICE—W. R. Moore, 1 and 2 story, 65 x 125 ft., brick and concrete, Bush and 4th Sts., to W. Rohrbacker, Santa Ana, approximately $150,000. Noted Feb. 10.

Buildings—Industrial

Proposed Work

Mass., Cambridge (br. Boston)—FACTORY—Owner, c/o H. L. Kennedy, archt., 80 Boylston St., Boston, having plans prepared 2 story, 50 x 130 ft., rein.-con., brick and steel, plain foundation here. $40,000.

Mass., Framingham—RUBBER PLANT—Archer Strauss Rubber Co., Herbert St., soon lets contract 1 and 2 story, 160 x 225 ft., rein.-con., brick and steel, Herbert St. $100,000. I. Richmond, 248 Boylston St., Boston, archt.

R. I., Woonsocket—PLUSH PLANT—Rhode Island Plush Mills, 1112 River St., soon lets contract 2 story, 45 x 150 ft., rein.-con. and brick addition, plain foundation, River St. $60,000. Lockwood Greene & Co., 24 Federal St., Boston, Mass., archts.

N. J., Jersey City—WAREHOUSE—A. Davis, archt., 140 Montgomery St., soon takes bids 1 story, 80 x 180 ft., rein.-con., brick and steel, plain foundation, 163-93 Henderson St., for Natl. Asbestos Mfg. Co., 163 Henderson St. $80,000.

Pa., Allentown — OXYGEN PLANT — Linde Air Products Co. (subsidiary Union Carbon & Carbide Co., 30 East 42nd St., New York City), having plans prepared oxygen plant, here. $150,000. Eng. Dept. Union Carbon & Carbide Co., 30 East 42nd St., New York City, engrs.

Pa., Erie—OXYGEN PLANT—Linde Air Products Co. (subsidiary Union Carbon & Carbide Co., 30 East 42nd St., New York City), having plans prepared and soon takes bids oxygen plant, here. $150,000. Eng. Dept. Union Carbon & Carbide Co., 30 East 42nd St., New York City, engrs.

Pa., Haverford—ENGINEERING LABORATORY—Haverford College, W. W. Comfort, pres., having plans prepared by Mellor, Meigs & Howe, 205 South Juniper St., Phila., 3 story engineering laboratory. $100,000.

Pa., Phila.—COLD STORAGE—Pennsylvania R.R. Co., Broad St. Sta., having plans prepared by W. H. Cookman, Broad St. Sta., Unit C, 110 x 800 ft., cold storage plant, rein.-con. and brick, Oregon and Delaware Aves. Day & Zimmerman, 1600 Walnut St., engrs.

W. Va., Charleston — PLANT — Union Carbon & Carbide Co., 30 East 42nd St., New York City, having plans prepared plant addition, here. $500,000. Eng. Dept. Owner, engrs.

W. Va., Hastings—CHEMICAL PLANT—Union Carbon & Carbide Co., 30 East 42nd St., New York City, having plans prepared chemical plant, here. $1,000,000. Eng. Dept. Owner, engrs.

Fla., Tampa—OXYGEN PLANT—Linde Air Products Co. (subsidiary Union Carbon & Carbide Co., 30 East 42nd St., New York City), having plans prepared oxygen plant, here. $150,000. Eng. Dept. Union Carbon & Carbide Co., 30 East 42nd St., New York City, engrs.

O., Cleveland—COLD STORAGE—City Ice & Fuel Co., E. C. Balzhiser, 6611 Euclid Ave., had plans prepared by Ball Ice Machine Co., archts. and engrs., 126 Chouto St., St. Louis, Mo., 6 story and basement, 120 x 200 ft., brick and rein.-con., Burwell Ave. $500,000.

O., Cleveland—FACTORY—Angell Nail & Chaplet Co., 2657 East 79th St., had plans prepared 1 story, 90 x 340 ft., brick and steel, 2657 East 79th St. $125,000. Private plans.

O., Dayton—FACTORY—U. S. Corrugated Fiber Box Co., 1315 Martindale St., Indianapolis, Ind., having plans prepared by A. C. Bacon, Indianapolis, Ind., 3 story and basement, 100 x 350 ft., brick and concrete, along Baltimore & Ohio R.R. tracks, here. $275,000.

Buildings—Industrial (Continued)

Mich., Battle Creek—BOX FACTORY—Michigan Carton Co., 79 Fountain St., having plans prepared by M. J. Morehouse, 343 South Dearborn St., Chicago, Ill., 2 story, rein.-con. and brick, plain foundation, Fountain St. $75,000.

Mich., Grand Rapids—OXYGEN PLANT—Linde Air Products Co. (subsidiary Union Carbon & Carbide Co., 30 East 42nd St., New York City), having plans prepared oxygen plant, here. $150,000. Eng. Dept. Union Carbon & Carbide Co., 30 East 42nd St New York City, engrs.

Mich., Pontiac—AUTO FACTORY—Oakland Motor Car Co. had plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 1 and 2 story, 540 x 640 ft., and 108 x 750 ft., rein.-con., brick and steel, plain foundation, Oakland Ave. $2,000,000.

Ill., Chicago—FACTORY and FOUNDRY, etc.—Advance Pattern & Fdry. Co., 2734 West 36th St., having plans prepared by A. A. Wickland & Co., 5 South Wabash Ave., 1 and 2 story 125 x 600 ft., 36th Pl. and California Ave. $125,000.

Ill., Chicago — MACHINE SHOP — A. Epstein, archt., 2000 West Pershing Rd., preparing plans and soon takes bids 1 story, brick 3531-45 West 47th St., for Sherman Klove Co., 4640 West Harrison St. $85,000.

Kan., Kansas City—PACKING PLANT—Armour & Co. plans rebuilding 4 story, brick packing plant, recently destroyed by fire. $300,000.

Kan., Wichita — OXYGEN PLANT — Linde Air Products Co. (subsidiary Union Carbon & Carbide Co., 30 East 42nd St., New York City, having plans prepared and soon takes bids oxygen plant, here. $150,000. Eng. Dept. Union Carbon & Carbide Co., 30 East 42nd St., New York City, engrs.

Tex., Corpus Christi — COMPRESS — Aransas Compress Co., c/o J. K. Cain, pres., having plans prepared brick, concrete and tile compress, approximately 372,000 sq.ft. floor space. $250,000. Private plans. Noted June 2.

Tex., El Paso—CREAMERY—El Paso Cotton Mill Co., c/o A. P. Coles, pres., plans creamery building. $200,000.

Tex., Harlingen — BRICK and TILE PLANT—Universal Face Brick & Art Tile Co. plans face brick, art and concrete tile plant. $60,000. Private plans.

Tex., San Antonio—OIL REFINERY—Humble Oil & Refining Co., Humble Oil Co. Bldg., Houston, plans oil refinery on Frio City Rd., here. $3,000,000. Noted Aug. 11.

Tex., Weslaco — PACKING PLANT — Texas Citrus Fruit Growers Assn., c/o J. Sharry, Mission, purchased site and plans 1 story, brick and concrete plant, here. $75,000. Private plans.

Ore., Portland—KNITTING MILL—Jantzen Knitting Mills Corp., 695 Sandy St., plans 200 x 800 ft. knitting mill, East Flanders St. between 17th and 19th Sts. $500,000.

Calif., San Francisco — FACTORY — G. Haas & Sons, Phelan Bldg., having revised plans prepared by W. Lowe, 354 Hobart St., Oakland, 3 story and basement, rein.-con., 10th and Howard Sts. Former bids rejected. Noted Aug. 25.

Bids Desired

Mass., Amesbury—REPAIR and SERVICE GARAGE—J. McLane, c/o Amesbury Auto Body Co., taking bids 1 story, rein.-con. and steel, plain foundation, Clark and Elm Sts. $40,000. Morse & Dickerson, 25 Washington St., Haverhill, archts.

Mass., Arlington (br. Boston) — SUBSTATION—Edison Electric Illuminating Co., 39 Boylston St., Boston, taking bids 2 story, 40 x 110 ft., brick, plain foundation, Mystic St. $40,000. Bigelow & Wadsworth, 120 Tremont St., Boston, archts. Noted Sept. 15.

Mass., Brookline (br. Boston)—SERVICE, SALE and REPAIR SHOP—Oct. 24, by Cadillac Motor Car Co., 2860 Clark St., Detroit, Mich., 2 story and basement, brick and stone, plain foundation, Commonwealth Ave. and Essex St., here. To exceed $40,000.

Mass., Cambridge (Boston P. O.) — PLANT — Lever Bros. Co., 164 Bway., taking bids altering 5 story and basement, brick, plain foundation. $40,000. C. T. Main Co., 201 Devonshire St., Boston, engrs.

Mass., Cambridge (br. Boston)—REPAIR and SERVICE GARAGE—Klauer Bros., 345 Franklin St., taking new bids, 2 story, 13,000 sq.ft. floor space, brick and steel, plain foundation, Franklin St. $50,000. Former bids rejected. W. W. Drummey, 80 Boylston St., Boston, archt. Noted Sept. 8.

N. Y., New York — LAUNDRY and POWER HOUSE—Oct. 28, by B. S. Coler, comr. Welfare, Municipal Bldg., altering and constructing additions to laundry and power house, at Lincoln Hospital, Concord Ave. and East 141st St., Bronx Boro. C. B. Meyers, 31 Union Sq., archt. Noted Oct. 13.

N. J., Jersey City—CAN FACTORY—See "Contracts Awarded."

O., Dayton — FACTORY — Oct. 24, by U. S. Corrugated Box Co., 1315 Martindale Ave., Indianapolis, Ind., 1 story, 125 x 300 ft., brick and steel, Holmes Ave. near Soldiers Home. $75,000. C. E. Bacon, 1104 Odd Fellows, Indianapolis, Ind., archt. Noted Oct. 13.

Contracts Awarded

Mass., Jamaica Plain (br. Boston) — KNITTING MILL — F. W. Oakes, c/o J. Murray, archt., 101 Tremont St., Boston, 1 story, 65 x 160 ft., brick and timber, plain foundation, Williams and Water Sts., here, to J. P. Foley & Son, 80 Boylston St., Boston. Archts. est. $40,000. Noted Sept. 15.

Mass., Quincy (Ind. br. Boston)—PLANT—Norfold Woodworking Co., 275 Hancock St., will build 1 story, 60 x 130 ft., and 70 x 300 ft., timber woodworking plant and storage facilities, concrete foundation, Hancock St. $50,000. L. S. Joslin, 339 Newbury St., Boston, archt.

Mass., Somerville—ICE PLANT—Metropolitan Ice Co., 321 Washington St., artificial ice plant, brick and steel, Cottage Ave. and Brookford St., to E. D. Ward Co., 82 Foster St. Engrs. est. $60,000.

Mass., Walpole — MANUFACTURING — Multibestos Co., T. H. Boston, supt., South St., altering and constructing 1 story, brick and steel addition plain foundation, South St., to Bouvier-Brien Constr. Co., 189 Sayles St., Woonsocket, R. I. Archts. est. $40,000.

Conn., Greenwich—WORKSHOP, etc.—St. Lukes Hospital, Post Rd., two 12 x 15 ft. pumphouses, and 30 x 115 ft. garage, workshop and workers quarters, rein.-con. and brick, to M. Mezzulo, 132 Pearl St., Portchester, N. Y. Archts. est. $70,000.

Conn., Meriden—GARAGE—A. Pinkevitch, 75 Willow St., 2 story, 45 x 115 ft., rein.-con., brick, and steel, Veteran St., to H. Wales Lines Co., 134 State St. Archts. est. $50,000.

N. J., Jersey City — CAN FACTORY — Amer. Can Co., 120 Bway., New York City, will build 7 and 8 story, 200 x 500 ft., rein.-con., St. Pauls Ave. and Erie R.R. tracks, here, by day labor. $2,000,000. C. G. Preis, c/o owner, ch. engr. Noted May 28.

N. J., Somerville—ICE PLANT—Crystal Ice & Coal Co., 307 Arlington Ave., general contract ice plant, incl. 42 x 47 ft. engine room, 21 x 65 ft. tank house, 42 x 53 ft. ice storage shed and 41 x 42 ft.. daily storage shed, all 1 story, to A. Milne, 15 Watchung Ave., Plainfield. Archts. est. $40,000.

Pa., Cressona—ENGINE HOUSE, etc.—Reading Co., C. Dillenback, ch. engr., Reading Terminal Bldg., Phila., 1 story, 115 x 167 ft. engine house, 1 story, 37 x 100 ft. locker building, etc., and 100 ft. turntable, here, to I. S. Grinrod, 10 South 18th St., Phila. Noted Oct. 6.

Pa., Pittsburgh — PAINT FACTORY — Standard Plate Glass Co., 1st Natl. Bank Bldg., general contract 4 story and basement, 40 x 153 ft., rein.-con. and brick, Galveston Ave., to Construction Corp., 3216 Smallman St. Archts. est. $150,000.

O., Cincinnati—AUTO REPAIR SHOP—Oakley Chevrolet Co., Madison Rd., 2 story and basement, brick and rein.-con., plain foundation, Madison Rd., to Leibold-Farrell Co., Schmidt Bldg., $60,000.

O., Cleveland—FACTORY—Upson-Waltson Co., 12500 Elmwood Ave., 1 story, 60 x 181 ft., brick and steel addition, to Austin Co., 16112 Euclid Ave. Archts. est. $40,000. Private plans.

O., Zanesville — POTTERY PLANT — H. A. Weller Co., 1 story, 200 x 250 ft., brick and steel addition, to Austin Co., Union Trust Bldg., Pittsburgh, Pa. Archts. est. $350,000. Private plans. Noted Sept. 8.

Ill., Chicago — FACTORY—Mergenthaler Linotype Co., 531 Plymouth Ave., carpentry contract 6 story, 75 x 100 ft., brick, 531-35 Plymouth Ave., to Chicago Special Constr. Co., 53 West Jackson Blvd. Archts. est. $80,000.

Mo., Kansas City—POWER PLANT—Kansas City Power & Light Co., 14th St. and Grand Ave., two complete steam generating units for Grand Ave. and Northeast Stations, to Combustion Eng. Corp. (subsidiary of International Combustion Eng. Corp., 200 Madison Ave., New York City). Noted May 12.

Mo., North Kansas City—REFINERY—Corn Products Refining Co., 1238 Bd. of Trade Bldg., Kansas City, sugar refinery, rein.-con. and brick, here, to Bedford Constr. Co., 200 East Illinois St., Chicago, Ill. Archts. est. $1,000,000. Noted Oct. 13.

Calif., Los Angeles—LAUNDRY—Bluebird Laundry Co., South Western Ave., 3 story, L shaped, Sect. 1 40 x 71 ft., and Sect. 2 71 x 140 ft. stucco and cast stone, South Western Ave., to May & Grimwood, 520 East 8th St., $74,000. Noted Aug. 25.

Calif., Los Angeles—LAUNDRY—Community Laundry Co., C. C. Craig, pres., 2 nad 3 story (ultimately 6 story), 145 x 235 ft., rein.-con., Highland and Willoughby Aves., to Easton & Nesser, 340 North Rampard Blvd., $149,000. Noted Oct. 13.

Calif., Los Angeles—LAUNDRY—Peerless Laundry Serv. Co., 5826 South Main St., 2 story and basement, 90 x 120 ft., steel and rein.-con., 5873 Wood-Lawn Ave., to Lynch Constr. Co., 730 Merrill St., $94,850. Noted Sept. 29.

Calif., San Francisco — FACTORY — G. Haas & Sons, Phelan Bldg., 3 story and basement, rein.-con., 10th and Howard Sts., to Monson Bros., 251 Kearny St., $175,000. Noted Aug. 25.

P. E. I., Georgetown — WAREHOUSE, etc.—S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., frostproof warehouse and improving railway wharf, here, to Phillips & Clark, Georgetown, $53,000. Noted June 2.

Buildings—Educational, Religious

Proposed Work

Mass., Andover — FRATERNITY — Phillips Andover Academy having preliminary plans prepared by Perry, Shaw & Hepburn, 177 State St., Boston, fraternity building. $150,000 or more.

Mass., Brockton — CHURCH — First Church of Christ Scientist, W. Hanson, chn. Bd. Directors, 567 Pleasant St., raising $150,000 or more funds for church, North Main St. Engineer and architect not selected.

Mass., Lynn—CHURCH—Church of Holy Family (Roman Catholic), P. Sozzi, pastor, 21 Bessom St., having sketches made by M. Sullivan, 100 Baylston St., Boston, 1 story and basement, brick and stone, plain foundation, 22 Bessom St. $150,000. Noted Nov. 25.

Mass., Fall River — SCHOOL — City, Schoolhouse Dept., City Hall, having revised plans prepared by J. I. Higgins, Borden Blk., 3 story and basement, 75 x 230 ft., brick and stone, plain foundation, Dwelly, Slade and Lewis Sts. $400,000. Former bids rejected. Noted Oct. 6.

Mass., Walpole—HIGH SCHOOL—Town, c/o R. M. Stowell, archt., 184 Boylston St., Boston, rejected bids 2 story and basement, brick, steel, granite limestone addition, plain foundation, Common St. $275,000.

Mass., Worcester—SCHOOLS—City, Pub Building Dept., City Hall, plans Junior High School, brick and steel, $250,000; grade school addition in Lake View Dist. and new school in Bloomingdale Dist., to exceed $150,000; and continuation school in Sycamore St. $150,000. Engineer and architect not selected.

Conn., Bridgeport — CHURCH — First Methodist Episcopal Church, H. E. White, chn. building comn., having revised plans prepared by E. G. Southey, 983 Broad St., brick and stone, Harrison and Golden Hill Sts. $500,000. Allen & Collens, 75 Newbury St., Boston, Mass., engrs. Noted Aug. 4.

Conn., New Milford—CHAPEL—Canterbury School having plans prepared by R. Hume, 247 Park Ave., New York City, N. Y., 40 x 80 ft., stone and terra cotta chapel. $150,000.

N. Y., Chappaqua — SCHOOL — School Dist. 4, towns of Mt. Pleasant and Newcastle, having plans prepared by Marr & McNeile, 70 East 45th St., New York City, school, Ring St., here. $325,000.

N. J., Bridgeton—HIGH SCHOOL—Bd. Educ. having plans prepared by Edwards & Greene, 548 Federal St., Camden, 2 story, high school. $260,000. Noted Mar. 24.

N. J., Hackensack—CHILDREN'S HOME—Bd. Freeholders Bergen Co., 46 Hudson St., had plans prepared by C. V. Bogert, 167 Main St., 3 story and basement, brick and steel, plain foundation, Green St. $150,000. Noted June 2.

N. J., Livingston—SCHOOL—Bd. Educ., Town Hall, having plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, 2 story and basement, brick and steel, plain foundation. $150,000.

N. J., Paterson — SCHOOL — Eastern Academy, 273 North 7th St., having revised plans prepared by J. C. Van Vlandren, 140 Market St., 2 story and basement, brick

Buildings—Educational, Religious (Cont.)

and steel, plain foundation, North 8th St. $150,000. Noted Apr. 14.

N. J., Pleasantville — HIGH SCHOOL — Bd. Educ. having revised plans prepared by S. H. Vaughn, c/o Guarantee Trust Bldg., Atlantic City, 3 story and basement, rein.-con., brick and steel, plain foundation, Franklin Blvd., Ardsley, Roosevelt and Chester Aves. $650,000. Noted Apr. 14.

N. J., Ridgewood—SCHOOL—Bd. Educ., 1 Franklin Ave., takes bids about Oct. 27, general contract 2 story and basement, brick and steel, plain foundation, Monroe St. $450,000. Fanning & Shaw, 49 Ward St., Paterson, archts.

N. J., South Plainfield—SCHOOL—Bd. Educ., Plainfield Ave., takes bids about Oct. 17, general contract 2 story and basement, brick and steel, plain foundation, Hamilton Blvd. $150,060. G. M. Ricci, 224 Smith St., Perth Amboy, archt.

Pa., North Braddock (Braddock P. O.)—HIGH SCHOOL—School Dist. of North Braddock, c/o S. R. McClure, Bergen Bldg., Pittsburgh, having plans prepared by Carlisle & Sharrer, Martin Bldg., Pittsburgh, 2 story and basement, irregular shaped, brick and steel addition to Junior High School, here. $300,000.

Miss., Crystal Springs—SCHOOL—Copia Co. Bd. Educ., c/o P. K. Brice, chn., soon takes bids 2 story, brick and stone, rein.-con. foundation, for Consolidated School Dist. of Crystal Springs. $150,000. C. H. Lindsley, Lamar Life Bldg., Jackson, archt. Noted Sept. 1.

O., Cleveland Heights (Warrensville P.O.) —CHURCH, RECTORY and SUNDAY SCHOOL—Walker & Weeks, archts., 2341 Carnegie Ave., Cleveland, soon lets contract, brick, steel, stone and concrete, Fairmount Blvd., for First Baptist Church of Greater Cleveland, F. W. Lovell, chn. building, com., 2060 East 46th St., Cleveland. Noted Apr. 23.

Ind., Muncie—CHURCH—Building Com. Baptist Church, W. G. Everson, pastor, 1116 West Walnut St., soon lets contract, Indiana limestone and brick, Jefferson St. $250,000. S. Hannaford & Sons, Dixie Terminal Bldg., Cincinnati, O., archts. Noted May 19.

Mich., Grosse Pointe (br. Detroit) — SCHOOL—Bd. Educ., 17453 East Jefferson Ave., had plans prepared by G. J. Haas, 804 Wormer & Moore Bldg., Detroit, and soon takes bids 2 story and basement, brick, steel and stone, plain foundation, Kercheval Ave. $150,000.

Tex. Port Arthur—SCHOOL—Voted $1,500,000 bonds, school improvements, incl. 4 buildings. $200,000-$300,000 each, etc., for Bd. Educ.

Tex., Sherman — SCHOOL — Bd. Educ. soon takes bids new Washington School. $150,000 bonds voted for same.

Calif., Huntington Park — CHURCH — De Wight Kindig & H. P. Sharpe, associated archts., 451 North Western Ave., Los Angeles, soon take bids 2 story and basement, 130 x 150 ft., brick, here, for Huntington Park Christian Church, Los Angeles.

Calif., Los Angeles — SYNAGOGUE — B'nai B'rith Temple, 519 West 9th St., takes bids about Oct. 28, 4 story, 120 x 260 ft., steel and rein.-con., Wilshire and Hobart Blvds. $1,000,000. Allison & Allison, Hibernian Bldg., and A. M. Elderman, 824 H. W. Hellman Bldg., associated archts. Noted Mar. 10.

Calif., Redlands — AUDITORIUM — Trustees Redland High School Dist., having revised plans prepared by E. Bergstrom, Citizens Natl. Bank Bldg., Los Angeles, rein.-con. auditorium. $150,000. Former bids rejected. Noted Nov. 4.

Bids Desired

Mass., Fall River—SCHOOL—Oct. 22, by J. I. Higgins, archt., 44 Borden Blk., 3 story and basement, 75 x 230 ft., brick, plain foundation, Dwelly, Slade and Lewis Sts., for city, School House Dept., City Hall. Noted Oct. 13.

R. I., Warwick—SCHOOLS—Oct. 26, by Town School Com., Town Hall, and Hutchins & French, archts., 11 Beacon St., Boston, Mass., Norwood, Lakewood and Greenwood Schools, each 2 story and basement, brick and stone, plain foundations. To exceed $150,000.

N. Y., Brookyln—HIGH SCHOOL—Nov. 7, by W. H. Gompert, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., constructing P. S. 96 (Junior High School), Avenue P, between West 11th and 12th Sts., for Bd. Educ., 500 Park Ave., New York City.

Pa., Lancaster — HIGH SCHOOL — Bd. Educ. taking bids and opens same about Oct. 28, rein.-con., brick, stone and steel addition to West End Junior High School. $450,000. C. E. Urban, Woolworth Bldg., Lancaster, Pa., and W. B. Ittner, 911 Locust St., St. Louis, Mo., archts. Noted May 19.

Pa., Lancaster — HIGH SCHOOL — Bd. Educ. taking bids 3 story, rein.-con., brick and stone addition to East Side Junior High School. $450,000. M. R. Evans, 10 East Orange St., Lancaster, and W. B. Ittner, 911 Locust St., St. Louis, Mo., archts.

Md., Baltimore—CHURCH—Nov. 1, by St. Ambrose Roman Catholic Church, H. J. Monaghan, pastor, Park Heights and Wylie Aves., rein.-con., brick and stone, Park Heights and Wylie Ave. Maginnis & Walsh, 140 Boylston St., Boston, Mass., archts. Noted Feb. 10.

D. C Wash.—HIGH SCHOOL—Nov. 1, by District Comrs., District Bldg., constructing Gordon Junior High School, 1,572,000 cu.ft. floor space.

Va., South Norfolk (mail Norfolk)—HIGH SCHOOL—Oct. 27, at office J. Hurst, supt. schools, Norfolk Co. and South Norfolk 52 Nusbaum Bldg., Norfolk, high school, here. $160,000. C. M. Robinson, Times Dispatch Bldg., Richmond, archt.

La., Shreveport—HIGH SCHOOL—Nov. 9, by Caddo Parish School Bd. or E. F. Neild, archt., 1206 City Bank Bldg., 2 story, brick and stone, Fair Park. $400,000. Noted Aug. 11.

O., Columbus—HIGH SCHOOL—Nov. 7, by Bd. Educ., W. V. Drake, clk., Junior High School, 2 story and basement, 200 x 250 ft., brick and concrete, Indianola Park. $325,000. H. D. Smith, 207 East State St., archt. Noted Sept. 15.

Ind., Danville — SCHOOL — Oct. 28, by School Trustees (selected list of bidders), 2 story and basement, rein.-con., brick and steel high and grade school, incl. auditorium and gymnasium. $160,000. McGuire & Shook, 941 North Meridian St., Indianapolis, archts.

Ind., Indianapolis — SCHOOL — Oct. 28, by State Blind School, 3 story, rein.-con., brick and steel, incl. administration, industrial and 3 dormitory buildings, 75th St. and College Ave. $400,000. W. A. Breining, 511 Traction St., engr. Harrison & Turnook, 500 Bd. of Trade Bldg., archts.

Ind., Indianapolis—CHURCH—Oct. 25, by Zion Evangelical Church, W. R. Davis, pastor, 416 East North St., 2 story and basement, 68 x 180 ft., brick, steel and stone, North and East Sts. $150,000. D. A. Bohlen & Son, 1001 Majestic Bldg., archts.

Mich., Mt. Clemens—SCHOOL—Dec. 1, by G. J. Haas, archt., 2231 Park Ave., Detroit, 2 story and basement, rein.-con., brick and steel, plain foundation, incl. gymnasium and auditorium, Dist. 1, Lake Twp., near here, for Bd. Educ., A. W. Palmer, R.F.D. 4. $200,000.

Tex., San Angelo — CHURCH — First Baptist Church, c/o E. Ridgeway, pastor, taking bids 2 story and basement, brick, stone, steel and rein.-con. church. $130,000. R. H. Hunt & Co., 1407 S. W. Life Bldg., Dallas, archts. Noted Aug. 4.

Wash., Seattle—SCHOOL—Nov. 15, by F. Fowler, archt., L. C. Smith Bldg., 4 story and basement, 60 x 108 ft., brick, 5th and Virginia Sts., for Wilsons Modern Business College, 2nd and Virginia Sts. $150,000.

Calif., Los Angeles—HIGH SCHOOL—Oct. 26, by Bd. Educ., 3 story, 60 x 200 ft. with 40 x 50 ft. wing, brick and terra cotta addition to Metropolitan High School, Venice Blvd. $345,000. Noerenberg & Johnson, Los Angeles Ry. Bldg., archts. Noted Feb. 10.

Calif., Los Angeles—MUSEUM—Oct. 31, by Supervs. Los Angeles Co., Unit 2, Museum of History, Art and Science, 3 and 4 story, 143 x 173 ft., rein.-con. and brick, Exposition Park. To exceed $1,000,000. E. Bergstrom, City Natl. Bank Bldg., M. Hunt, 420 South Spring St., P. Davis, 3215 West 6th St., S. P. Hunt, 2645 North Berendo St., and W. Richards, Citizens Natl. Bank Bldg., archts. Foundation for above awarded to Clinton Constr. Co., Stockton Exch. Bldg.; excavating, to C. G. Willis & Son, 2119 East 25th St.; and structural steel to McClintic-Marshall Co., 426 South Spring St. Noted Oct. 13.

Contracts Awarded

Mass., Malden (br. Boston) — HIGH SCHOOL — City, A. J. Plummer, chn. building Comn., general contract Junior High School, 2 story and basement, 165 x 300 ft., brick and stone, plain foundation, Pleasant St., to W. J. Delaney, 283 Essex St., Lawrence. $353,277; heating and ventilating, to V. Kennaelly Co., 256 Dover St., Boston, $53,000; and electrical work, to Balcom Bros., 29 Irving St., $25,000.

N. Y., Syracuse — SCHOOL — City, A. Partridge, engr., City Hall, general contract school, to W. J. Burns, Keith Theatre Bldg. Noted July 14.

N. J., Mays Landing—HIGH SCHOOL—Bd. Educ., Hamilton Twp., A. E. Smith, dist. clk., 3 story and basement, 66 x 138 ft., and 51 x 60 ft., brick and steel, to G. W. Shanner & Son, Palmyra, $179,987. Noted Sept. 29.

N. J., Moorestown — CHURCH and RECTORY—Trinity Protestant Episcopal Church, gray stone and limestone church and rectory, to McNeil Constr. Co., 15th

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Buildings—Educational, Religious (Cont.)

and Race Sts., Phila., Pa., $150,000. Noted Oct. 6.

N. J., Summit — HIGH SCHOOL — Bd. Educ., 272 Morris Ave., general contract 2 story and basement, 125 x 125 ft., brick and steel addition, plain foundation, Elm St., to G. A. Davies, Inc., 331 Madison Ave., New York City, $245,446; and heating, to Trenton Plumbing & Heating Co., 366 South Bird St., Trenton, $34,944. Noted Oct. 6.

N. J., Totowa (mail Paterson)—DORMITORIES—Bd. Institutions & Agencies, State House, Trenton, general contract 4 dormitories and 2 other buildings at Training School for Feeble Minded Females, here, to Butler Reisdorff Co., 120 East 41st St., New York City, $448,000; plumbing, to Burns, Lane & Richardson, 16 Paterson St., New Brunswick, $45,843; and electrical work, to Hoffman & Elias, 59 West 51st St., New York City, $27,864. Grand total $521,707. Noted Sept. 15.

Pennsylvania—HOME—Jewish Convalescent Home, c/o L. B. Rothschild, archt., 215 South Broad St., Phila., 3 story and basement, 36 x 195 ft., and 52 x 91 ft., rein.-con., brick and steel, plain foundation, Moreland Rd., Upper Dublin Twp., Montgomery Co., to F. V. Warren Co., 1913 Arch St., Phila. Archts. est. $300,000 Noted June 30.

Pa., Lancaster—SCHOOL—Bd. Educ., general contract 3 story, rein.-con., brick and stone, to H. Wohlsen, Lancaster, $143,457; heating and ventilating, to Everts & Overdeer, Lancaster, $27,388. Noted May 19.

Ill., Chicago—SCHOOL—Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., masonry contract 3 story, 70 x 260 ft., Major and Roscoe Sts., to Simpson Constr. Co., 1113 South Hermitage Ave., $217,900. Noted Aug. 25.

Calif., Los Angeles — MUSEUM — See "Bids Desired."

Calif., San Francisco — CHURCH and HOTEL—Methodist Book Concern, 5 City Hall Ave., 23 story, steel and rein.-con., McAllister and Leavenworth Sts., to Cahill Bros., 55 New Montgomery St., $2,000,000. Noted May 26.

Federal Government Work

Proposed Work

Mass., Scituate—Radio Compass Station—Spec. 5439—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids relocation pole line and wire system, at Radio Compass Station, Fourth Cliff, here. Will readvertise.

New York—Dredging—U. S. Engineer Office, Army Bldg., Whitehall St., New York City, rejected bids Sept. 12, dredging and rock removal in Mamaroneck and Hempstead Harbors. Noted Sept. 15.

N. Y., Fort Wadsworth (mail Staten Island) — Barracks — Constructing Quartermaster, 39 Whitehall St., New York City, rejected bids Sept. 26, infantry battalion barracks at Fort Wadsworth, here. Noted Sept. 29.

N. Y., Northport — Canteen Building — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., rejected bids Oct. 11, canteen building at U. S. Veterans Hospital, here. Noted Sept. 15.

D. C., Anacostia (br. Wash.) — Radio Towers—Spec. 5508—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans two 125 ft. triangular, structural steel radio towers with concrete foundations, at Naval Air Station, here. L. E. Gregory, ch. of bureau.

La., New Orleans—Steel Hull—U. S. Engineer Office plans wood steel hull for concrete mixing plant, here.

Bids Desired

Mass., Camp Devens—Barracks—Nov. 3 (extended date), by Constructing Quartermaster, 2 barrack buildings; adv. E. N.-R. Oct. 20. Noted Oct. 6.

New York—Dredging—Oct. 31, by U. S. Engineer Office, Army Bldg., 39 Whitehall St., New York City, dredging 37,100 cu.yd., place measurement, more or less, from channel in Browns Creek; adv. E. N.-R. Oct. 20.

N. Y., Brooklyn—Metal Work—Spec. 5511—Oct. 26, by Bureau Yards & Docks, Navy Dept., Wash., D. C., repairing sash and sheet metal work in power house, Naval Hospital, here.

N. Y., Governors Island (br. New York) —Power and Lighting System, etc.—Nov. 3, by Constructing Quartermaster, electric power and lighting system and Diesel type electric generators, the engines to drive 20 kw. generators.

N. Y., Iona Island—Wharf—Spec. 5507—Oct. 26, by Bureau Yards & Docks, Navy Dept., Wash., D. C., repairing wharf at Naval Ammunition Depot, here.

N. Y., New York—Garage—Nov. 21, by Treas. Dept., at office Supervising Archt., Wash., D. C., constructing garage at U. S. Quarantine Station, here.

N. Y., New York—Motor Generator Sets—Spec. 5486—Oct. 26, by Bureau Yards & Docks, Navy Dept., Wash., D. C., 600 and 300 kw. motor-generator sets, incl. motor, generator and distribution panels and cable connections, etc., at Navy Yard, here; adv. E. N.-R. Oct. 20.

N. J. Dover—Standpipe, etc.—Oct. 26, by Bureau Yards & Docks, Navy Dept., Wash., D. C., repairing steel standpipe and piping at Naval Ammunition Depot, Lake Denmark, here; adv. E. N.-R. Oct. 20.

Md., Annapolis—Dredging—Spec. 5513—Oct. 26, by Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging Rifle Range, at Naval Academy, here. Noted Oct. 13.

Va., Norwolk—Spec. 5502—Oct. 26, by Bureau Yards & Docks, Navy Dept., Wash., D. C., bath and terrazzo flooring, at Naval Hospital, here.

Ala., Montgomery — Nov. 15, by Constructing Quartermaster, Maxwell Field, constructing 13 non-commissioned officers quarters and utilities at Maxwell Field, here; adv. E. N.-R. Oct. 20.

Ind., Jeffersonville—Lodge—Nov. 10, by Constructing Quartermaster, new lodge at Vicksburg Natl. Cemetery.

Ill., Maywood—Laundry and Covered Passages—Nov. 8, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., laundry and covered passages at U. S. Veterans Hospital, Edward Hines, Jr., here. L. H. Tripp, ch. constr. div.

Wyoming—Road—Apr. 10, by Bureau Pub. Roads, Custom House, Denver, Colo., grading 10 mi. Grayling Creek Sect. 6-B, West Gallatin Natl. Park Road Project; Yellowstone Natl. Park, here. J. W. Johnson, Denver, Colo., dist. engr.

Wyoming—Road—Apr. 11, by Bureau Pub. Roads, Custom House, Denver, Colo., grading 9.3 mi. East Entrance-Sylvan Lake Sect. 5-A and 5-B East Entrance Natl. Park Project, Yellowstone Natl. Park, here. J. W. Johnson, Denver, Colo., dist. engr.

Wyoming—Road—Apr. 12, by Bureau Pub. Roads, Custom House, Denver, Colo., grading 8 mi. Gibbons Canyon Sect. 1-B, Norris Junction-Madison Junction Natl. Park Road Project, Yellowstone Natl. Park. J. W. Johnson, Denver, Colo., dist. engr.

Montana—Roads—May 2, by C. H. Purcell, dist. engr. U. S. Bureau Pub. Roads, 316 New Postoffice Bldg., Portland, Ore., constructing or improving 7 mi. Sun Camp-St. Marys Junction Project 1-E, and 4 mi. Babb-Many Glacier Project, Many Glacier Sect. 3, both in Glacier Natl. Park, here.

Colorado—Road—Apr. 10, by J. W. Johnson, dist. engr. Bureau Pub. Rds., Custom House, Denver, grading, 2.65 mi. Point Lookout Sect. 1-B, North and South Highway, Natl. Park Road Project, Mesa Verde Natl. Park.

Arizona—Road—Apr. 17, by C. H. Sweetser, dist. engr. U. S. Bureau Pub. Roads, 461 Market St., San Francisco, Calif., grading, etc. sections North Rim Natl. Park Highway, here.

Washington—Roads—May 3, by C. H. Purcell, dist. engr. U. S. Bureau Pub. Roads, 316 New Postoffice Bldg., Portland, Ore., constructing or improving 6.6 mi. Yakima Park Project, White River-Yakima Park, Sect. 3-B, and 5.38 mi. Yakima Park Project, East Boundary-White River Sect. EA, Mt. Rainier Natl. Park, here.

Washington—Roads—May 4, by C. H. Purcell, dist. engr. U. S. Bureau Pub. Roads, 316 New Postoffice Bldg., Portland, Ore., constructing or improving 5.3 mi. West Side Highway, Mowich Lake-West Boundary Rd., Sect. 2-E, and 3 mi. West Side Highway, Round Pass Klapatche Ridge Rd., Sect. 2-B, both in Mount Rainier Natl. Park, here.

Oregon—Road—May 2, by C. H. Purcell, dist. engr. Bureau Pub. Rds., 316 New Post Office Bldg., Portland, constructing or improving approximately 6.7 mi. Lodge-Diamond Lake Junction Project 7-A, Crater Lake Natl. Park.

California—Road—Mar. 20, by C. H. Sweetser, dist. engr. Bureau Pub. Rds., Sheldon Bldg., San Francisco, grading, etc. Route 1, Giant Forest-North Park Boundary, Sect. C and D, Sequoia Natl. Park Highway.

California — Road — Apr. 10, by C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., Sheldon Bldg., San Francisco, grading, etc., Route 1-C Summitt Lake-Loop Rd., Lassen Volcanic Natl. Park, Lassen Co.

Porto Rico, San Juan—Quarters—Spec. 5448—Nov. 16, by Bureau Yards & Docks, Navy Dept., Wash., D. C., 1 story double quarters at Naval Radio Station, here; adv. E. N.-R. Oct. 20. Noted Oct. 6.

Conn., New Haven—Dredging—Nov. 22, by U. S. Engineer Office, Providence, R. I., dredging in Mill River, New Haven Harbor, here; adv. E. N.-R. Oct. 20.

Bids Received

N. Y., Cohoes — Betterments — Treas. Dept., at office Supervising Archt., Wash., D. C., Oct. 3, betterments at U. S. Post Office, here, from King Lumber Co., Charlottesville, Va., $2,950. Noted Sept. 8.

N. C., Wilson—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., Oct. 10, constructing U. S. Post Office, here, from C. Weitz Sons, 713 Mulberry St., Des Moines, Ia., $160,306. Noted Sept. 29.

Tex., Legion—Roads—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Oct. 4, resurfacing roads at U. S. Veterans Hospital, here, from Coaglozier & Hoff, San Antonio, $34,800. Noted Sept. 8.

Ore., Nyssa—Cottages—Bureau Reclamation, Sept. 26, one 5 room permanent cottage, two 3 room temporary cottages and 1 frame office building at Owyhee Dam site, Owyhee Project, here, from G. Johanson, Adrian, $25,039. Noted Sept. 22.

T. H., Pearl Harbor—Chimneys—Spec. 5412—Bureau Yards & Docks, Navy Dept., Wash., D. C., Oct. 5, rein.-con. chimneys with brick linings, here, from Weber Chimney Co., McCormick Bldg., Chicago, Ill., $15,635. Noted Sept. 1.

Contracts Awarded

N. Y., Albany—Dredging—U. S. Engineers Office, Army Bldg., 39 Whitehall St., New York City, dredging in Hudson River, here, to Natl. Dredging Co., 60 Beaver St., New York City, $585,834. Noted Sept. 29.

N. Y., Mineola—Barracks—Constructing Quartermaster, Mitchell Field, Sept. 26, 4 air corps barracks, etc. at Mitchell Field, here, to Murch Bros. Constr. Co., 611 Olive St., St. Louis, $265,259. Noted Sept. 1.

Pa., Phila. — Dredging — Spec. 5509 — Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging at Pier 8, Navy Yard, here, to Amer. Dredging Co., Mar. & Mer. Bldg., $15,224. Noted Sept. 29.

Pa., Pittsburgh—Dam—U. S. Engineers Office, constructing Dam 6, 1,140 ft. long, Allegheny River, here, to Dravo Contg. Co., Neville Island, $558,316. Noted Oct. 6.

Pa., Pittsburgh—Lock Gate—U. S. Engineer Office, 1 upper and 1 lower lock gate for Lock 14, Monongahela River, to Heyl & Patterson, 51 Water St., $11,420. Noted Sept. 8.

Ala., Dothan—Screen—Treas. Dept., at office Supervising Archt., Wash., D. C., changes in U. S. Post Office screen, here, to Smythe & Co., Wash., D. C., $3,329. Noted Oct. 6.

Miss., Vicksburg—Levee Work—U. S. Engineer Office, repairing levee work, Items 3 and 4, to Moorow & Neel, Yazoo City, $27,410; and Item 2, to C. E. Hines, Eden, $10,115.

La., New Orleans—Levee—U. S. Engineer Office, levee work in Lower Tensas, Pontchartrain, LaFourche and Baratoria Levee Dists., to E. H. Lancaster, Fairview, $6,500; to Lower Coast Constr. Co., Godchaux Bldg., New Orleans, $49,548; to Acme Constr. Co., Inc., Pointe-a-la-Hache, $10,980; to Grasser Constr. Co., Canal-Commercial Bldg., New Orleans, $17,280; and to O. O. Ogden, Roumain Bldg., Baton Rouge, $19,792. Grand total $104,100.

Ill., Chicago—Repairs—Treas. Dept., at office Supervising Archt., Wash., D. C., repairing U. S. Post Office, here, to A. J. Wagner, 3762 North Clark St., $11,000.

Ill., Great Lakes (mail Waukegon) — Electrical Distribution System—Spec. 5480—Bureau Yards & Docks, Navy Dept. Wash., D. C., electrical distribution system, at U. S. Naval Training Station, here, to M. L. Miller, 1744 Sheridan Rd., North Chicago, $31,736 (180 days). Noted Sept. 29.

Ill., Great Lakes (mail Waukegon) — Heating Plant Equipment—Spec. 5405—Bureau Yards & Docks, Navy Dept., Wash., D. C., heating plant equipment for Naval Hospital, here, to R. H. Baker Co., Inc., Kendall Sq. Bldg., Cambridge, Mass., $106,000 (120 days). Noted Sept. 8.

Minn., Duluth—Pipe Line Dredge—U. S. Engineer Office, 12 in. pipe line dredge, to Marine Iron & Shipbuilding Co., foot 11th Ave. W., $34,778.

Minn., Fort Snelling—Fence and Gates—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., fence and gates, at U. S.

Federal Government Work (Continued)

Veterans Hospital, here, to C. W. Olsen Mfg. Co., 1300 Quincy St. N.E., Minneapolis, $17,363. Noted Sept. 22.

N. D., Jamestown—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., constructing U. S. Post Office, here, to E. Rokakr & Sons, 904 Terminal Bldg., Lincoln, Neb., $154,799. Noted Oct. 13.

Mo., Kansas City — Current Retards — U. S. Engineers Office, current retards at Franklin Island, in Missouri River, to Woods Bros. Constr. Co., 132 South 13th St., Lincoln, Neb., $31,500.

Mo., St. Louis—Earthwork—District Engineer Northern Mississippi River Comn., Customhouse, levee work in Dist. 3, Perry Co., to Matthews Bros., $12,600; and in Ste. Genevieve Leve Dist. 1, to McCann Bros., Grand Tower, Ill., $7,200. Noted Oct. 6.

Calif., Los Angeles—Dredging—U. S. Engineer Office, 735 Central Bldg., dredging in Los Angeles Harbor, to San Francisco Bridge Co., Nevada Bank Bldg., San Francisco, $1,133,000. Noted Oct. 6.

FEDERAL POWER COMMISSION

Application for License and Permits

Applications

837—Arizona Edison Co., Douglas, Ariz., wants preliminary permit power project on Gila River, in Graham and Greenlee Counties.

838—Conejos Recreation Assn., Inc., Antonito, Colo., wants license power project within La Manga Natl. Forest, on La Manga Creek, Conejos Co.

839—Cascade Power Co., Seattle, Wash., wants preliminary permit power project in Wenatchee River, Chelan Co., near Leavenworth.

Unclassified

Proposed Work

Stadium—Newtonville (Ind. br. Boston), Mass.—Dickerson Memorial, M. Hutchinson, chn. com., 15 Temple St., West Newton, plans rein.-con. memorial stadium, on high school grounds, here. $50,000. Engineer not selected.

Dock, etc.—New Brunswick, N. J.—City making plans brick and steel dock and warehouses, Burnett and Lock Aves. $1,000,000. A. Atkinson, city hall, engr. Noted June 30.

Stadium—Cincinnati, O.—St. Xavier College, Victory Blvd., plans concrete horseshoe shaped stadium, 25,000 seating capacity. $300,000. J. G. Steinkamp & Bros., 1212 Mercantile Library, engrs.

Wheel House—Beaver Crossing, Neb.—Making preliminary plans rein.-con. wheel house, etc. in conjunction with present dam. $30,000. Grant, Fulton & Letton, 525 South 13th St., Lincoln, engrs.

Oil Tank Farm — Midland, Tex. — Atlantic Production Co., Midland, purchased 320 acre site and plans oil tank farm, mostly steel construction. $1,000,000. Private plans.

Diesel Engine and Generator—Sallisaw, Okla.—City made preliminary plans installing 300 hp. Diesel engine and generator. $30,000. F. E. Johnston, Sallisaw, engr.

Lighting System — Alhambra, Calif. — Plans ornamental lighting system on Valley Blvd. between Garfield Ave. and west city limits, etc. To exceed $25,000.

Lighting System — Fullerton, Calif. — Plans ornamental lighting system on Cannon Lane, Harvard and Frances Aves., etc. To exceed $25,000.

Tunnel—Los Angeles, Calif.—See "Streets and Roads."

Wharf, etc. — Los Angeles, Calif. — Francis Betts Smith, engr., 58 Sutter St., San Francisco, made plans concrete and steel wharf, extending 2,000 ft. into ocean, 60 x 200 ft. steel metal lath and concrete building on same, 1,350 ft. causeway 30 ft. with 22 ft. roadway, and 8 ft. sidewalk or promenade, foot of Santa Barbara St. $275,000. Group local business men will finance project.

Lighting System—Newport Beach, Calif.—Plans ornamental lighting system on various streets. To exceed $25,000. P. Kressley, city engr.

Fight Arena—San Francisco, Calif.—W. Ritchie, et al, c/o S. Heiman, archt., 57 Post St., having plans prepared 180 x 225 ft. fight arena with ice skating rink, etc. Mission Dist. $250,000.

Asphalt Plant — Montreal, Que. — City purchased land adjoining railroad tracks in East End and soon takes bids asphalt plant. $300,000 appropriated.

Grain Elevator — Vancouver, B. C. — Alberta Wheat Pool, Calgary, Alta., had plans prepared 2,500,000 bu. grain elevator, Burrard Inlet, here; bids for foundation were received until Oct. 16, $2,000,000. C. D. Howe & Co., Port Arthur, Ont., engrs.

Amusement Resort—Matamoras, Mexico—R. J. Allison & G. Olivares, Brownsville, Tex., and E. B. Izaguirre, Matamoras, Mexico, plan amusement resort, incl. hotel $750,000; also bull fight arena, horse racing track, electric rabbit racing tracks, etc. $750,000. Engineer and architect not selected.

Bids Desired

Heating, etc.—Beacon, N. Y.—Oct. 25, by Commissioner Dept. Correction, Albany, heating, sanitary, electric and equipment work in Kitchen and Dining Room, New Group, Matteawan State Hospital, here; adv. E. N.-R. Oct. 20.

Exit Facilities, etc.—Brooklyn, N. Y.—Nov. 2, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, exit facilities and fire stops, etc., at Brooklyn State Hospital, here.

Mechanical Equipment—Brooklyn, N. Y.—Nov. 7, by W. H. Gompert, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., mechanical equipment, incl. plumbing, drainage, heating, ventilating, electrical work, lighting fixtures, etc., in P. S. 96, Avenue P, from West 11th to 12th Sts., for Bd. Educ., 500 Park Ave., New York City.

Electric Generator—Comstock, N. Y.—Nov. 1, by Commissioner Dept. Correction, Albany, electric generator, Great Meadow Prison, here; adv. E. N.-R. Oct. 20.

Skating Rink—New York, N. Y.—Faybert Realty Co., c/o P. J. Heaney, 1363 Westchester Ave., taking bids 100 x 265 ft. with 100 x 100 ft. wing, ice skating rink, 55 ft. high, Westchester and Whitlock Aves. $200,000. D. M. Ach, 1 Madison Ave., archt. R. Nickerson, 136 Liberty St., engr.

Electrical Work, etc.—New York, N. Y.—Nov. 2, by Comr. Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, constructing electrical work, exit facilities, and fire stops at Manhattan State Hospital, Wards Island, here; adv. E. N.-R. Oct. 20.

Subsidiary Pipes—New York, N. Y.—Oct. 25, by A. Goldman, comr. Dept. Plant & Structures, Municipal Bldg., subsidiary pipes between Empire City Subway Co. and traffic post locations, and erecting traffic posts along Bway., Lexington, West End, 7th, Madison, Amsterdam, and Park Aves.

Airport—Troy, N. Y.—See "Contracts Awarded."

Borings—New Jersey—Oct. 31, by State Hy. Comn., Trenton, borings on site proposed Newark Turnpike Highway Bridge over Hackensack River, Route 10 (1927), Hudson Co. A. L. Grover, secy.; adv. E. N.-R. Oct. 20.

Station Finish—Phila. Pa.—Oct. 27, by Dept. City Transit, H. E. Ehlers, dir. 1211 Chestnut St., station finish for Erie, Hunting Park, Wyoming, Logan and Olney Stations for Broad Street Subway, Contr. 183.

Steamship—Phila., Pa.—Oct. 25, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., 300 ft. steamship delivered in 9 months at Cape Charles, Va.

Underpass—Louisville, Ky.—Oct. 31, by W. H. Courtenay, ch. engr. Louisville & Nashville R.R. Co., Louisville, underpass, on 4th St., for Louisville & Nashville R.R. Co., Louisville, Southern Ry. Co., Wash., D. C., B. Herman, ch. engr., and Bd. Pub. Wks., Louisville. $400,000.

Lighting System — Huntington Park, Calif.—W. P. Mahood, city clk., taking bids ornamental lighting system on portions Slauson Ave. and Pacific Blvd., etc. To exceed $25,000. Noted Oct. 6.

Culverts — Ventura, Calif. — Nov. 1, by Clerk Ventura Co., 4 rein.-con. culverts, etc., 8,800 cu.yd. excav., 19,300 lb. reinforcing, etc. C. Petit, Ventura, co. surv.

Contracts Awarded

Mechanical Equipment—Brooklyn, N. Y.—Bd. Educ., 500 Park Ave., New York City, mechanical equipment, incl. plumbing in P. S. 225, Ocean View Ave., Brighton Beach, here, to J. A. Graf, 111 Putnam Ave., $26,732; also heating and ventilating, to Almirall & Co., Inc., 53 Park Pl., New York City, $79,330. Noted Sept. 15.

Mechanical Equipment—Far Rockaway, N. Y. — Bd. Educ., 500 Park Ave., New York City, plumbing in Far Rockaway High School, Cornaga Ave. and Beach 25th St., here, to T. E. O'Brien, Inc., 6311 5th Ave., Brooklyn, $119,987; heating and ventilating to Heat Control Serv. Co., 759 Park Pl., Brooklyn, $204,616; and electrical work, to Fischback & Moore, 222 East 42nd St., New York City, $44,000. Grand total $368,603. Noted Sept. 15.

Airport—Troy, N. Y.—Owner, c/o W. E. Arthur, engr. and archt., 292 Madison Ave., New York City, will build airport, incl. hangar, beacons, grading, etc., here. $150,000. Work will be done by separate contracts or by engineer for owner.

Signal Systems, etc.—Union City, N. J.—Bd. City Council, City Hall, Palisade Ave., traffic, police and fire signal system, also fire alarm box pedestals, to W. H. Strant Co., Haverstraw, N. Y., $48,593 and $36,065 respectively.

Electric Switching Equipment — Phila., Pa.—Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., electric switching and control equipment, etc. in Sub-stations 4, 5 and 6; also Broad Street Subway, Contr. 150, to W. V. Pangborne & Co., 1927 West Montgomery St., $160,993. Noted Oct. 6.

Subway Station Finish — Phila., Pa. — Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., station finish Columbia, Susquehanna-Dauphin, North Phila. and Allegheny Stations, Broad Street Subway Contr. 182, to Curtis Co., 10 South 18th St., $257,195. Noted Sept. 29.

Cable Guard Rail—South Dakota—State Hy. Comn., Pierre, 20,370 ft. cable guard rail on 8 Projects in 6 counties, to W. H. Pringle, Pierre, $7,995; 9,720 ft. 8 projects in 7 counties, to W. R. Oestreich, Watertown, $4,169; and 13,990 ft. 3 projects in 2 counties, to W. Selfven, Sturgis, $5,522; and 2,340 ft. on Federal Aid Project 201-B, Hyde Co., to A. Hanson, Highmore, $1,014. Grand total $18,700.

Coal and Ash Handling Equipment—St. Louis, Mo.—Bd. Pub. Serv., 208 City Hall, coal and ash handling equipment for Municipal Service Bldg., 12th and Clark Sts., to S. Adamson Mfg. Co., Federal Reserve Bldg., $39,277. Engrs. est. $30,000. Noted Sept. 15.

Lighting System—Los Angeles, Calif.—Ornamental lighting system on 8th St. between Figueroa and Bway. Sts., to Osborn Electric Co., 450 California Terrace, Pasadena, $26,495. Engrs. est. $29,571. Noted Oct. 6.

Portal Buildings—Oakland, Calif.—Alameda Co., two 2 and 3 story, rein.-con. portal buildings, to Vogt & Davidson, 185 Stevenson St., San Francisco, $111,950.

Materials

Proposed Work

Structural Steel and Lumber—Cincinnati, O. — Comrs. Hamilton Co., Court House, plans purchasing 246,500 lb. structural steel $10,846, also 6,760 lin.ft. white oak piling, 197,756 ft. structural timbers (fir), 88,000 ft. No. 1 and 3,667 ft. No. 2 common pine $16,825, for temporary viaduct over Cleveland, Cincinnati, Chicago & St. Louis R.R. tracks, and Mill Creek, 6th St. E. A. Gast, Court House, engr.

Bids Desired

Bridge Lumber, etc.—Atlantic, Ia.—Nov. 2, by Auditor Cass Co., 340,000 ft. bridge lumber and 12,060-14,000 lin.ft. treated piling. G. F. Canon, Atlantic, engr.

Reinforcing Steel and Piling—Leon, Ia.—Oct. 26, at office Auditor Decatur Co., 78 225 lb. reinforcing steel, also 6,500 ft. southern red cedar and 2,300 ft. creosoted yellow pine piling.

Bids Received

Pipe—Compton, Calif.—For 3,359 ft. 4 in. and 1,830 ft. 8 in. Class 150 lb. c.i. pipe, from Pacific States C.I. Pipe Co., 417 South Hill St., Los Angeles, at $0.38 and $0.735 per ft. respectively.

Portland Cement—New York, N. Y.—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., Oct. 14, 4,000 bags portland cement, from P. Salomone, $2,500; 250 tons asphalt cement, from Warner Quinlan Co., 79 Wall St., $5,683. Noted Oct. 6.

Contracts Awarded

Gravel — Carthage, Miss. — See "Streets and Roads."

Water Pipe — Chicago, Ill. — Dept. Pub. Wks., Room 406, City Hall, 493 tons 12 in. c.i. water pipe, to Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, Ala., at $34 per ton. Noted Sept. 29.

See proposal advertising on page 124

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Road—Wyoming

Bids were opened by State Highway Commission, Cheyenne, June 14 (lowest four and highest) for constructing F. A. Project No. 138-B, Cheyenne-Pine Bluffs Rd., Laramie Co., from (A) Western Constr. Corp., (awarded contract); (B) Real & Kennedy; (C) J. J. Dooling; (D) Jesse Davis; (E) C. T. Whallen. The unit bids are as follows:

	A	B	C	D	E
225,500 cu.yd. earth	$0.18	$0.179	$0.189	$0.19	$0.22
100 cu.yd. loose rock	1.00	.75	1.00	.50	.40
50 cu.yd. solid rock	2.00	.75	.50	1.00	1.00
100 cu.yd. sta. overhaul	.05	.05	.04	.03	.02
2,724 lin.ft. unload and place pipe	.40	.40	.40	.50	1.00
159 lin.ft. Class B. conc. endwls.	15.00	25.00	20.00	22.00	27.50
608 cu.yd. snowfence	.80	1.00	.90	1.00	1.10
104,736 lin.ft. moving R/W fence	.01	.02	.02	.02	.03
73,842 lin.ft. R/W fence	.03	.05	.05	.04	.045
Totals	$47,479	$51,404	$52,785	$52,894	$63,272

Engineering News-Record, Issue of October 20, 1927

Paving—Wyandotte, Mich.

Bids were opened by City, June 7, (lowest three and highest) for paving Fourth Street, Assessment District No. 81, from (A) Bishop & Weir, 6451 East Six Mile Road, Detroit, (awarded contract); (B) E. A. Campbell, Kalamazoo; (C) Cement Paving Co., 606 Woodward Ave., Detroit; (D) W. E. Lennane. The unit bids are as follows:

	A	B	C	D
27,640 yd. pavement	$2.24	$2.25	$2.25	$2.37
15,575 ft. curb	.43	.60	.50	.75
8,300 cu.yd. excav	.45	.55	.50	.70
50 catch basins	45.00	40.00	65.00	50.00
5 manholes	55.00	70.00	65.00	70.00
18 manholes rebuilt	25.00	15.00	45.00	25.00
4,000 ft. 12 in. sewer	.90	1.25	1.75	1.35
20 ft. 8 in. c. i pipe	3.80	1.00	2.00	3.00
745 ft. ret. stone	1.00	.50	1.80	1.25
Totals	$83,261	$84,472	$87,478	$93,139

Engineering News-Record, Issue of October 20, 1927

Road—Michigan

Bids were opened by State Highway Department, Grand Rapids, Sept. 15, for constructing 5.022 mi. of Federal Aid Road No. F 041-10 C-3, Grand Rapids and Ada Townships, Kent Co., from (A) H. C. Nelson, Muskegon; (B) J. R. Edelman Co., Muskegon; (C) Marsman & Tabor, Grand Rapids. The unit bids are as follows:

	A	B	C
263.73 sta. excav.-fine grading	$5.00	$25.00	$18.00
12,270 lin.ft. cable guard rail	.50	.55	.55
4,996 mi. seeding	30.00	40.00	40.00
2,263 sq.yd. gravel surf. 5-in. one course	.50	.50	.50
49,475.84 sq.yd. conc. pavement, 7-in. center, 9-in. edge	1.29	1.27	1.33
9,222.30 sq.yd. conc. pavement, 7-in. center, 9-in. edge (mesh reinf.), 5.4 lb. per sq.yd.	1.54	1.57	1.58
177.6 sq.yd. conc. approach slab, 12-in. uniform (bar reinf.), 34.3 lb. per sq.yd.	4.00	4.35	3.75
120.0 sq.yd. bridge surf. spec. see plans	2.00	1.25	1.50
Totals	$87,712	$92,909	$94,047

Engineering News-Record, Issue of October 20, 1927

Sewers—Salina, Kan.

Bids were opened by City, June 3, (lowest three) for installing sanitary sewers, from (A) Eberhard & Shriver, (awarded contract); (B) H. J. Taylor; (C) L. W. Rexroad; all contractors of Salina. The unit bids are as follows:

	A	B	C
2,392 lin.ft. trenching 0–4 ft.	$0.40	$0.40	$0.42
1,550 lin.ft. 4–6 ft.	.45	.50	.45
5,212 lin.ft. 6–8 ft.	.55	.60	.56
5,531 lin.ft. 8–10 ft.	.75	.80	.65
746 lin.ft 10–12 ft.	1.00	1.00	.75
1,510 lin.ft. 12–14 ft.	1.20	1.00	1.00
5,395 lin.ft. 6 in. v.s. pipe	.40	.45	.55
9,251 lin.ft. 8 in. v.s. pipe	.55	.60	.65
2,295 lin.ft. 10 in. v.s. pipe	.90	.80	.70
27 manholes	60.00	60.00	75.00
7 flush tanks	90.00	90.00	185.00
62 add. depth manholes and flush tanks	6.00	7.00	7.50
253 wyes	1.00	1.00	1.50
416 flush tanks, conc	.60	.60	1.00
117 paving cuts	1.00	1.00	1.00
Totals	$23,780	$24,657	$25,150

Engineering News-Record, Issue of October 20, 1927

Pipe Line—Massachusetts

Bids were opened by Metropolitan District Water Supply Commission, Boston, July 15, (lowest four and highest), for constructing 20 in. pipe line from Whitehall Reservoir to diversion dam on City Brook in town of Hopkinton, from (A) Portland Contg. Co., Inc., 97 Exchange St., Portland, Me., (awarded contract); (B) M. E. Kelley, Peabody; (C) R. H. Newell, Uxbridge; (D) Cenedella & Co., Milford; (E) A. Phelps & Sons, Detroit, Mich. The unit bids are as follows:

	A	B	C	D	E
Connection to gatehouse at Whitehall Reservoir (lump sum)	$450.00	$646.00	$750.00	$1,000.00	$1,200.00
6,800 lin.ft. furnishing 20-in. C. I. pipe and special castings	4.25	4.48	4.80	4.10	7.25
6,800 lin.ft. laying 20-in. C. I. pipe and special castings	.92	.75	.70	1.40	.80
4,000 cu.yd. excav. fill and refill	2.40	2.65	2.80	2.75	1.50
1,700 cu.yd. excav. fill and refill	1.22	4.27	2.70	4.00	5.00
Upper mill pond crossing (lump sum)	3,500.00	1,865.00	5,000.00	5,500.00	5,700.00
Furnishing and constructing one 4-in. blowoff (lump sum)	25.00	182.00	150.00	100.00	90.00
Furnishing and constructing one 2-in. air relief, type A (lump sum)	23.00	125.00	150.00	200.00	90.00
Furnishing and constructing one 2-in. air relief, type B (lump sum)	135.00	250.00	900.00	200.00	210.00
100 cu.yd. excav. at the diversion dam on City Brook	1.50	2.50	5.00	4.00	2.00
550 cu.yd. furnishing and placing impervious core and blanket in diversion dam	1.60	1.50	2.50	3.00	2.00
1,200 cu.yd. furnishing and placing pervious embankment in diversion dam	1.60	1.40	1.75	1.75	1.25
100 cu.yd. furnishing and placing soil dressing	2.00	2.25	2.00	3.00	1.25
30 cu.yd. furnishing and placing concrete	19.00	20.00	30.00	20.00	24.00
25 cu.yd. furnishing and placing paving	8.00	8.00	10.00	8.00	10.00
Furnishing and placing 20-in. shear valve at pipe line outlet (lump sum)	80.00	250.00	250.00	300.00	300.00
	$54,963	$60,521	$65,715	$67,750	$80,725

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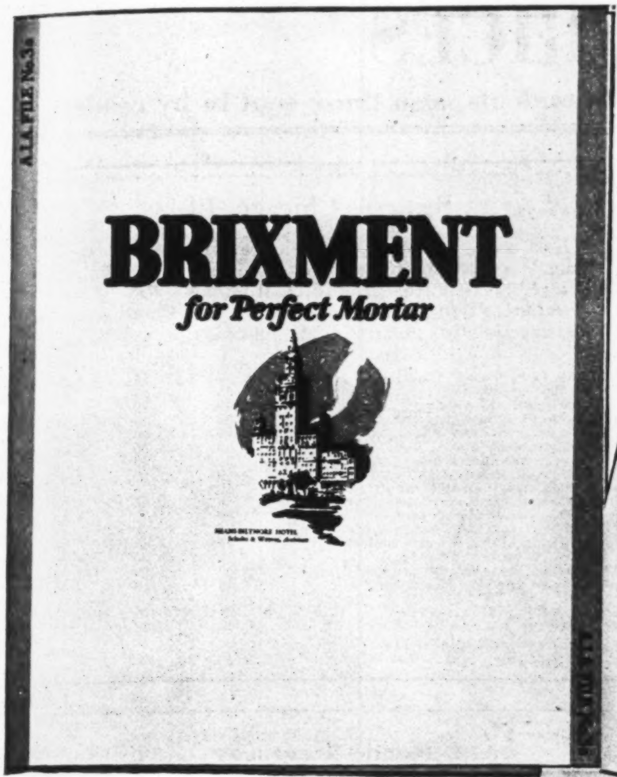
UNIT PRICES ***Continued on page 212a***



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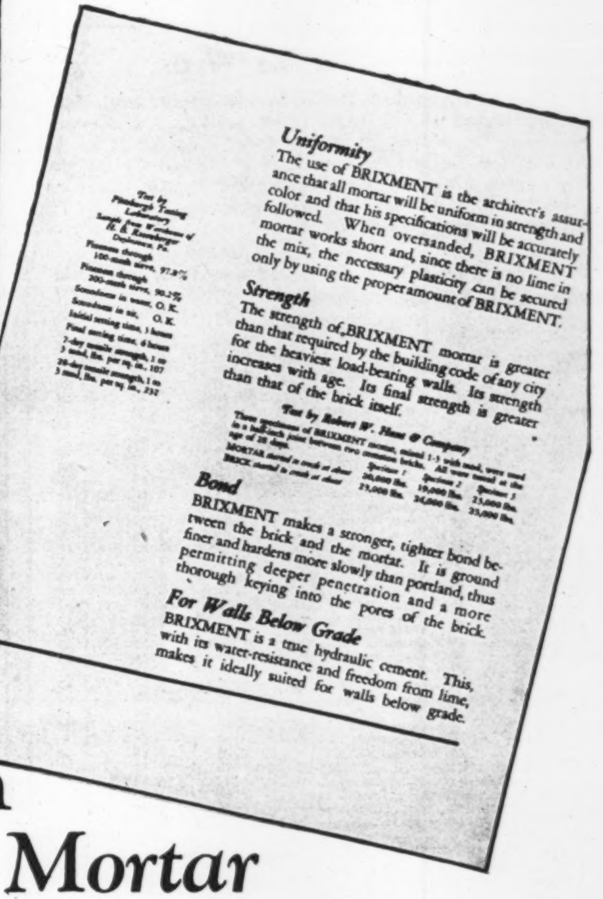

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UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Sewers—Tacoma, Wash.

Bids were opened by Public Works Department, Apr. 11, for laying 18,773 lin.ft. 12-in. sanitary trunk sewer and 8-in. laterals in all streets from East 32nd St. S., to Sherman St. and between East P St. and Grandview Ave., from (A) McHugh & Calluchio, Seattle, (awarded contract); (B) Paine Gallucci & Milone; (C) S. A. Moceri. The unit bids are as follows:

	A	B	C
Clearing gulch line (lump sum)	$3000.00	$3,500.00	$1,000.00
Ditch—Creek channel change, per lin.ft.	.20	.50	1.25
Sand and gravel backfill on gulch lines, cu.yd	2.50	2.00	4.00
Excavating below grade on 12 in. sewer, cu.yd	2.00	2.00	2.00
Mattress on 12 in. line, M. ft. b. m	35.00	50.00	40.00
Old wood flume to remove, lin.ft	.60	.25	1.40
New wood flume, lin.ft	5.00	2.50	7.00
Box drain to build, M ft. b.m	50.00	50.00	80.00
8 in. pipe trench 2 ft. deep, lin.ft	.25	.25	.70
3 ft. deep, lin.ft	.30	.35	.80
4 ft. deep, lin.ft	.37	.45	.85
5 ft. deep, lin.ft	.45	.55	.90
6 ft. deep, lin.ft	.50	.65	1.00
7 ft. deep, lin.ft	.60	.75	1.10
8 ft. deep, lin.ft	.75	.85	1.15
9 ft. deep, lin.ft	.87	.95	1.20
10 ft. deep, lin.ft	1.00	1.05	1.30
11 ft. deep, lin.ft	1.10	1.15	1.35
12 ft. deep, lin.ft	1.25	1.25	1.40
13 ft. deep, lin.ft	1.30	1.50	1.50
14 ft. deep, lin.ft	1.40	1.75	1.55
15 ft. deep, lin.ft	1.45	2.25	1.65
16 ft. deep, lin.ft	1.50	2.75	1.70
17 ft. deep, lin.ft	1.60	3.25	1.75
18 ft. deep, lin.ft	1.75	3.75	1.80
19 ft. deep, lin.ft	1.85	4.25	1.90
20 ft. deep, lin.ft	1.95	4.75	2.00
21 ft. deep, lin.ft	2.10	5.25	2.05
24 ft. deep, lin.ft	2.50	6.00	2.40
12 in. pipe trench 1 ft. deep, lin.ft	.30	.30	1.00
2 ft. deep, lin.ft	.35	.40	1.10
3 ft. deep, lin.ft	.40	.50	1.20
4 ft. deep, lin.ft	.60	.60	1.30
5 ft. deep, lin.ft	.70	.75	1.50
8 in. pipe in place, lin.ft	.48	.40	.36
12 in. pipe in place, lin.ft	.80	.62	.64
8 in. x 6 in. wyes in place	1.40	1.42	1.25
6 in. ⅛ bends	.80	.60	.72
6 in. pipe risers in place, lin.ft	.35	.25	.25
6 in. plugs in place	.10	.06	.07
Manhole, rings and covers in place	20.00	20.00	16.00
Manholes 5 ft. deep	42.00	25.00	35.00
6 ft. deep	50.00	30.00	40.00
7 ft. deep	56.00	35.00	45.00
8 ft. deep	62.00	40.00	50.00
9 ft. deep	70.00	45.00	55.00
10 ft. deep	75.00	50.00	60.00
11 ft. deep	80.00	55.00	65.00
12 ft. deep	86.00	60.00	70.00
13 ft. deep	92.00	65.00	75.00
14 ft. deep	100.00	70.00	80.00
15 ft. deep	110.00	75.00	85.00
20 ft. deep	135.00	80.00	90.00
Totals	$46,736	$49,124	$54,496

Engineering News-Record, Issue of October 20, 1927

Bridge—Chicago, Ill.

Bids were opened by Cook County Highway Department, Aug. 22, for constructing Irving Park-Des Plaines Bridge, Section No. 1293 15-D, from (A) Ray Mann, Rockford; (B) Chernus Construction Co.; (C) Oltendorf Construction Co., Palatine. The unit bids are as follows:

	A	B	C
1,855.4 cu.yd. conc. (Class A)	$18.00	$21.10	$18.00
286,400 lb. reinf. teel	.05	.05	.05
4,409 lb. cast iron rockers	.09	.10	.10
3,709 lb. steel bearing plates	.09	.10	.10
18 cu.yd. brick hand rail	60.00	40.00	70.00
2 bridge name plates	20.00	25.00	50.00
150 sq.ft. bituminous felt	.20	.20	.30
2,400 cu.yd. approach gr. (borrow)	1.59	1.50	2.00
2,540 lb. structural steel exp's'n guard	.10	.10	.10
2,880 cu.yd. earth excav. and back fill	2.50	1.00	5.00
1,500 cu.yd. old masonry removed	5.00	5.00	8.00
1,760 sq.ft. std. 12-in. partition tile	.04	.15	.10
2,270 sq.ft. (10-in. D.) wire mesh reinf.	.75	.25	.20
280 cu.yd. broken stone	3.00	3.00	4.00
125 cu.yd. stone screenings	3.00	3.00	4.00
650 cu.yd. spandrel fill removal	1.50	2.50	2.50
Total	$72,174	$72,986	$85,212
Checks	4,550	4,600	4,500

Engineer's estimate—$91,736

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Road—Kentucky

Bids were opened by State Highway Department, Frankfort, Sept. 23, for grading and draining 4.564 mi. Greenup-Fullerton Rd., S. P. 106 C, Greenup Co., from (A) C. L. Lewis, 502 Greenup St., Covington; (B) Ashland Supply Co., Ashland; (C) Hunt-Forbes Construction Co., Ashland. The unit bids are as follows:

	A	B	C
40.65 acres clearing and grubbing	$20.00	$15.00	$10.00
20.292 cu.yd. excav. common	.30	.40	.36
15,656 cu.yd. excav., solid rock	.75	.85	.68
40,887 cu.yd. excav., common borrow	.30	.40	.36
453 cu.yd. excav. for structures	1.00	1.00	.90
10,000 cu.yd. remov. unclassified slides	.35	.35	.60
181,300 yd. sta. overhaul	.03	.03	.03
241 sta. final dressing	2.50	1.00	5.00
50 lin.ft. relaid pipe	1.00	.50	1.10
50 lin.ft. removing pipe	1.00	.50	1.25
238 lin.ft. 12 in. class A cor. met. pipe	1.75	1.60	2.00
50 lin.ft. 18 in. class A cor. met. pipe	2.25	2.25	2.35
30 lin.ft. 24 in. class A cor. met. pipe	3.00	3.25	4.25
354 lin.ft. 18 in. first class pipe	3.00	2.00	3.25
114 lin.ft. 24 in. first class pipe	4.00	2.75	4.00
523.95 cu.yd. conc., class A	17.00	16.00	19.00
41,715 lb. reinf. steel	.06	.06	.05
Totals	$54,550	$60,570	$60,614

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Gas Pipe—Long Beach, Calif.

Bids were opened by City for furnishing 171,660 ft. 1¼-24-in. gas pipe, from (A) Crane Co., 321 East 3rd St., Los Angeles, $55,993 (awarded contract); (B) Lally Co.; (C) Grinnell Co. of the Pacific; (D) American Wholesale Hardware Co., 1500 W. Anaham St., Long Beach, $67,592 (awarded contract); (E) Oil Well Supply Co.; (F) Pacific Pipe & Supply Co.; (G) N. O. Nelson Mfg. Co.; (H) Petroleum Equipment Co. The unit bids are as follows:

	A	B	C		D	E	F	G	H
	Per 100 Ft.	Per 100 Ft.	Per 100 Ft., Rail or Water Respectively		Per 100 Ft.	Sizes Vary as Noted	Per 100 Ft.	Sizes Vary as Noted	
15,000 ft. 1¼-in	$9.80	$9.62	$19.84	$9.74	$9.62	3½ in. $29.81 ft.	$9.83	1¼ in. $9.80 ft.	$9.62
90,000 ft. 3-in	29.81	29.81	34.12	30.18	29.81	4½ in. 42.53 ft.	29.81	3½ in. 29.81 ft.	29.81
10,300 ft. 4-in	42.53	42.53	43.68	43.06	42.53	6⅝ in. 75.12 ft.	42.53	4½ in. 42.53 ft.	42.53
12,700 ft. 6-in	75.12	75.12	95.99	76.07	75.12	8⅝ in. 1.21 ft.	75.12	6⅝ in. 75.12 ft.	75.12
4,300 ft. 8-in	121.00	121.00	138.00	123.00	121.00	10¾ in. 1.53 ft.	121.00	8⅝ in. 1.21 ft.	121.00
13,200 ft. 10-in	153.00	153.00	172.00	154.00	153.00	12¾ in. 1.99 ft.	153.00	10¾ in. 1.53 ft.	153.00
24,000 ft. 12-in	199.00	199.00	225.00	202.00	199.00	20 in. 3.51 ft.	199.00	12¾ in. 1.99 ft.	199.00
1,800 ft. 20-in	251.00	......	......	......	......	24 in. 5.32 ft.	......	20 ft. 2.51 ft.	......
360 ft. 24-in	532.00	......	......	......	......	....	......	24 in. 5.32 ft.	......

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Constr. News page 212a

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Hydro-electric project, Safe Harbor, Pa., Pennsylvania Water Power Co. making tentative plans, $30,000,000.

Office and library, Chicago, Ill., Bd. Educ. plans, $10,000,000.

Factory, Los Angeles, Calif., Firestone Tire and Rubber Co., will build, $7,000,000.

Water supply, Fort Worth, Tex., Water Control League voted bonds, $6,500,000.

Port development, Seattle, Wash., Comrs. Port Seattle making plans, $6,000,000.

Auto factory, Atlanta, Ga., General Motors Corp. purchased site and plans 4 buildings, $5,000,000.

Hotel, St. Louis, Mo., Lafayette Realty Co. soon takes bids, $3,000,000.

Railway, Oklahoma and Texas, Clinton & Oklahoma Western R.R. Co. plan 95 mi. railroad, $3,729,845.

Grade crossing eliminations, New York, New York Central R.R. Co. making plans, $3,215,000.

Sewers, Ft. Wayne, Ind., making plans new disposal plant, $2,500,000.

Club, New York, N. Y., Downtown Athletic Club takes bids in December, $2,225,000.

Pulp mill, Tacoma, Wash., Union Bag & Paper Co., having preliminary plans prepared, $2,200,000.

Clubhouse, Boston, Mass., Trustees Durant, Inc., plans, $2,000,000.

Dormitory, Berkeley, Calif., University of California having plans prepared, $1,750,000.

Warehouse, New York, N. Y., Lord & Taylor having plans prepared, $1,500,000.

Sewers, Seattle, Wash., Dept. Pub. Wks. plans, $1,500,000.

School Bldg., Somerville, Mass., City takes bids about Oct. 20, $1,200,000.

Garage, Newark, N. J., G. Bell plans, $1,000,000.

Bids Desired

Bridge, Toronto, Ont., Dec. 19, by R. M. Smith, Dept. Pub. Highways, $1,000,000.

Bids Received

School, Amenia, N. Y., Commissioner Mental Hygiene, Albany, Oct. 19, general contract, from Seglin Harrison Constr. Co., Inc., Buffalo. $2,359,220.

Contracts Awarded

Amusement Center, Newark, N. J., Newark Auditorium, Inc., general contract to C. T. Willis, Inc., New York City, Archts. est. $6,000,000.

Paper mill and power plant, Kapuskasing, Ont., Spruce Falls Power & Paper Co. to Morrow & Beatey, Peterboro, Engrs. est. $5,000,000.

Office and garage, San Francisco, Calif., F. C. Morgan to Lindgren-Swinerton, Inc., approximately $4,000,000.

Bridge, Chicoutimi, Que., Harbor Comrs. Ste. Anne de Chicoutimi Bridge & Wharves, to Quinlan, Robertson & Co., Ltd., Montreal, $3,000,000.

Mill, Gatineau, Que., International Fibre Board, Ltd., to Fraser Brace Constr. Co., Montreal. Engineers total est. $2,000,000.

Boiler room, turbine room, etc., Hammond, Ind., State Line Generating Co., to Herlihly Bros., Chicago, approximately $2,000,000.

Theatre and commercial building, Rochester, N. Y., Graven & Mayger, archts., Chicago, masonry to J. B. Pike & Co. for Bonarge Corp., New York City, archts. est. $1,500,000.

Clubhouse and hotel, New York, N. Y., J. M. Howells, archt., to Hegeman-Harris Co., Inc., $1,250,000.

Paperboard plant, Toronto, Ont., Dominion Boxboards Ltd., general contract, to Toms Contg. Co.; piling, to Russell Constr. Co., Engrs. est. $1,000,000.

Apartment, Long Beach, Calif., L. Mayell to Kume & Westerhouse, Los Angeles, approximately, $1,000,000.

Bank and office, Tulsa, Okla., Weary & Alford, archts., Chicago, Ill., to F. B. Siesel & Co., Milwaukee, Wis.; to Maine & New Hampshire Granite Corp., North Jay, Me.; to Northwestern Terra Cotta Co., Chicago, Ill.; and to R. Grimshaw. Archts. est. to exceed $1,000,000.

News of the Week

Waterworks

Proposed Work

Conn., Bloomfield — Bloomfield Center Fire Dist. soon takes bids 11,000 ft. 10 in. main from West Hartford line to Bloomfield Center. Private plans. $50,000.

N. J., Brielle—Boro Council plans waterworks. $72,000. P. R. Shingler, boro clk.

N. J., New Bedford (mail Belmar)—Wall Twp., H. C. Warwick, clk., plans storage tank, mains etc. in various streets.

Md., Hagerstown — Bd. Water Comrs. soon takes bids 43,000 ft. 24 in. c.i. pumping mains in various streets. G. L. Bean, Hagerstown, engr.

Ga., Jesup—Voted $50,000 bonds, waterworks and sewers in various streets.

Tenn., Cookeville—Made plans extending 12,000 lin.ft. 6 in. rein.-con. mains in various streets. $17,000. F. E. Collier, Cookeville, engr.

Tenn., Petersburg—Voted $25,000 bonds, water plant.

Mich., Royal Oak (Ind br. Detroit)—R. J. Whitney, city mgr. soon takes bids 2¼ mi. 48 in. mains connecting waterworks with Detroit water system, also plans 1½ m.g. storage tank at end city's supply main, for City.

Wis., Osseo—See "Sewers."

Kan., Irving—Soon takes bids 30,000 gal. tank on 110 ft. tower, wells and pumps.

Tex., Amarillo—City, c/o J. D. Bartlett, soon takes new bids 600 ft. 4 in. and 15,000 ft. 6 in. Class "B" c.i. pipe; also one thousand eight hundred ft. ⅝ in., twenty-five ft. 1 in. and fifty ft. 2 in. bronze split cast, disk water meters. Former bids rejected. H. B. Jones, city engr.

Tex., Ft. Worth — Tarrant Co. Water Control League, voted $6,500,000 bonds, water supply and flood control, incl. reservoir at Eagle Mountain and one near Bridgeport in Wise Co. Hawley & Freese, 403 Cotton Exch. Bldg., engrs. Noted Sept. 22.

Tex., Glen Rose—Defeated $66,000 bonds, waterworks, incl. Trinity well, elevated tank and tower, water mains, laterals, hydrants, etc. H. B. McAllister, 519 North 12th St., Waco engr.

Tex., Goose Creek — Soon takes bids waterworks and sewer improvements. $57,000 bonds voted for same. Engineer not announced.

Tex., Jasper — Voted $110,000 bonds, waterworks. Address A. L. Black, Jasper, mayor.

Tex., San Antonio—See "Unclassified."

Okla., Blair—Made surveys new waterworks, incl. motor driven triplex pump, 16,500 ft. 4- to 8-in. c.i. pipe, etc. $25,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Clinton—Making preliminary plans extending 15,500 ft. 6- to 10-in. mains in various streets. $21,000. D. S. Elliff, Clinton, engrs. Noted May 26.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Calif., Burlingame—Making plans 1½ m.g. reservoir. J. S. James, city engr. Noted June 9.

Ont., Oshawa — Plans 1 mi. 6 in. c.i. mains, valves, hydrants, etc., in several streets. $20,000. W. C. Smith, Municipal Offices, engr.

Bids Desired

S. C., Charleston—Dec. 5, by Comrs. Pub. Wks., J. E. Gibson, mgr. and engr. 14 George St., constructing 4½ mi. 7 ft. horseshoe shaped tunnel diverting waters of Edisto River into drainage area of Ashley River; adv. E. N.-R. Oct. 27.

Ind., Osgood—Nov. 1, by G. A. Triplett, secy. Water Works System, 22,870 ft. 2- to 8-in. c.i. mains, 12,000 lb. c.i. specials, forty 4 in. hydrants, two 2 in., twelve 4 in. and seven 6 in. gate valves, one 75,000 gal. elevated tank, filter plant and low service pump. Edward Flad & Co., 916 Chemical Bldg., St. Louis, Mo., engrs. Noted Sept. 29.

Minn., St. Paul—Nov. 1, by A. E. Eggert, city purch. agt., 200,000 gal. rein.-con. and brick tank on 123 ft. tower in Highland Park, for Water Dept. $60,000. F. X. Tewes, City Hall, engr. Noted Aug. 11.

Mo., Ironton — Nov. 2, by City Clerk, 100,000 gal. concrete reservoir, 28,225 ft. 4- to 8-in. c.i. mains, 30 gate valves, deep well pumphouse, plunger type pump, 39 fire hydrants, etc. W. A. Fuller, 1912 Ry. Exch. Bldg., St. Louis, engrs. Noted Oct. 20.

Mo., St. Louis—Nov. 15, by Bd. Pub. Serv., 208 City Hall, two 48 in. steel conduits with cast steel fittings, manifold and venturi meter opening; also one 60 in. conduit, etc. $90,000. L. Day, City Hall, comr.

Okla., Stillwater—Nov. 8, by C. K. Bullen, supt. Water Dept., 2 unit mechanical water softener. $30,000.

Contracts Awarded

Mass., Boston—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

N. Y., Harriman—Village Trustees, Harriman School, pipe and branches, to R. D. Wood & Co., 400 Chestnut St., Phila., Pa., $13,590; hydrants and valves, to M. F. Smith Co., 81-83 Fulton St., New York City, $4,970; laying pipe, trenching, etc., to W. G. Fritz Co., Inc., 69 Main St., West Orange, $15,882; artesian well, to J. P. Harris, Port Chester, $1,500; and steel reservoir, to Chicago Bridge & Iron Wks., 30 Church St., New York City, $4,800. Grand total $40,742. Noted Sept. 15.

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Roosevelt and Woodside Aves., here, to Wataga Contg. Co., 308 Lenox Ave., New York City, $16,340. Noted Oct. 6.

See proposal advertising on page 124

TRADE "LEADITE" MARK

Registered U. S. Pat. Office

Laid 10 miles of water main—and satisfactory in every particular!

—said a waterworks engineer of national reputation, referring to this installation

Here is the story:—

THE Second Taxing District, South Norwalk, Connecticut, U.S.A., has just completed the installation of approximately ten miles of cast iron bell and spigot water mains, varying in size from 6" to 18". The work included the placing of about fifty cutting-in-tees on existing piping and their connection to new work.

Leadite was selected for jointing material after receiving competitive bids for laying with lead.

The total amount of the successful bids for all work, excepting the furnishing of the cast iron pipe, specials and valves, was as follows:

Lead Joints	$155,631
LEADITE Joints	142,535
Difference	$ 13,096
Saving in favor of **LEADITE**	8.4%

The work was performed by contractors experienced in the use of this material and was satisfactory in every particular.

Specifications required that after laying, the pipe should be tested for leakage under water pressures varying from 40 pounds to 115 pounds per square inch, and that the leakage should not exceed two gallons per 24 hours per linear foot of joint. The results of the tests were well within this limit.

This work was under the direction and supervision of Mr. Nicholas S. Hill, Jr., Consulting Engineer, 112 East 19th Street, New York, N.Y., U. S. A.

Leadite is used extensively by thousands of water works engineers, superintendents and contractors with excellent results.

Specify and use
LEADITE
It saves at least 75%

Be sure it is
LEADITE
and accept no imitations

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA., U. S. A.

NO CAULKING

Waterworks (Continued)

N. Y., Mount Kisco — Bd. Village Trustees, F. R. Matthews, clk., mains and appurtenances in various streets, to W. E. Sexton, Mineola, $158,609. Noted Oct. 6.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Birchall, Brady Aves., etc., Bronx Boro, to Sareno Contg. Co., 1959 Colden Ave., $9,925. Noted Oct. 6.

N. J., Belmar—Mayor and Council, Boro Hall, chlorinating tank, pumping station, etc., to T. Proctor, Long Branch, $44,800. Noted Oct. 13.

Md., Baltimore—Bd. Awards at office City Register, City Hall, curb stop and roadway valve boxes to Bureau Water Supply, for Mayor and City Council, to Levering Bros., 210 Key Highway, $8,020. Noted Sept. 29.

Miss., New Albany — Digging well, to Layne Central Co., Chelsea Ave., Memphis, Tenn. Engrs. est. $16,000.

Miss., Water Valley—City, 2 story, 61 x 105 ft. water and light plant, rein.-con., brick and steel also power plant equipment, etc., to G. S. Voltz, Ripley, Tenn., $43,964. Noted June 16.

O., Columbus — F. J. Donnally, clk. Franklin Co., 4,235 ft. 6 in. mains in Clinton Sewer Dist. 2, Impvt. 93, to B. Canini, 1898 Cleveland Ave., $7,585.

Okla., Cordell — Waterworks improvements, to Western Constr. Co., 1st Natl. Bank Bldg., Oklahoma City, $21,400. This corrects report in Oct. 20 issue.

Calif., Beverly Hills—For aeration plant, 200 x 280 ft. with 100 ft. central tower, etc., to Carpenter Bros., 457 North Canyon Dr., $145,700; also equipment for aeration plant, to California Filter Co., Sun Finance Bldg., Los Angeles, $44,950.

Calif., Burbank—For 5,000 ft. 6 in. c.i. pipe, to Amer. C. I. Pipe Co., Rives-Strong Bldg., Los Angeles, at $0.629 per ft.; and 7,000 ft. 4 in. to B. Nichols Co., Garland Bldg., Los Angeles, $0.419.

B. C., Vancouver—City Council, 5,000 ft. 24 in., ⅜ in. lap welded steel pipe, to Havey, Smillie & Co., 470 Granville St., representing Guest, Keen & Liggott, Birmingham, England, $24,796. Engrs. est. $30,000. Noted Sept. 8.

Sewers

Proposed Work

Conn., Rockville—Plans sewage disposal system. $100,000. G. W. Knight, 125 Prospect St., Passaic, N. J., consult. engr. This corrects report in Oct. 13 issue.

Pa., Brentwood (mail Pittsburgh)—Making plans sanitary sewers in Brownsville Rd. $50,000. R. A. Schneider, 2606 Brownsville Rd., Pittsburgh, engr.

Ala., Montgomery—Takes bids in November, 3,500 ft. concrete and vitr. clay sewer in various streets; also takes bids in December, pipe, Div. Southern Outfall sewer, 10,000 ft. 12 in. vitr. J. M. Garrett, engr.

Va., Roanoke—See "Streets and Roads."

Ga., Jesup—See "Waterworks."

O., Oxford — Making plans sewage disposal plant. $250,000. G. B. Gascoigne, Leader Bldg., Cleveland, engr.

Ind., Ft. Wayne — Making plans new disposal plant and reconstructing sewerage system. Fuller & McClintock, Summit Cherry Bldg., Toledo, O., engrs. $2,500,000. Noted Apr. 28.

Mich., Detroit—Wayne Co. made plans Grosse Isle Drain 2, 2,060 ft. 12 to 42 in. concrete or vitr. pipe; Lakewood Dr. Drain, 1,330 ft. 12 to 24 in. pipe; Island Dr. Arm, 190 ft. 15 and 18 in. pipe; West River Rd. Lateral ,2,600 ft. 12 to 18 in. pipe; University Dr., Miami Dr. and Harvard Dr. Laterals, 2,620 ft. 12 in. pipe. G. A. Dingeman, County Bldgs., drain comr.

Mich., Detroit—Wayne Co. made plans Grosse Isle Drain 3, 1,740 ft. 12- to 30-in. crock or concrete pipe; Lakewood Dr. Arm, 720 ft. 12, 18, and 30-in.; Island Dr. Arm, 1,240 ft. 12- to 21-in.; Meridian Blvd. Lateral, 1,270 ft. 12- to 15-in.; Golf View Blvd. Lateral, 2,200 ft. 12- to 15-in.; Blackmore Dr. and Forest Dr. Laterals, 1,540 ft. 12 in. G. A. Dingeman, County Bldgs., drain comr.

Mich., Detroit—Dept. Pub. Wks. making plans Detroit River Interceptor Sect. 6 in Franklin and Woodbridge Sts., 4,900 ft. monolithic concrete circular section 14 ft. interior diam. P. A. Fellows, city engr.

Wis., Osseo — Voted $25,000 bonds, sewers and waterworks. Total $100,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, Minn., engrs.

Tex., Clifton — Voted $59,000 bonds, sewerage system. Address City Secretary.

Tex., Glen Rose—Defeated $50,000 bonds, sewer improvement, incl. disposal plant. H. B. McAllister, 519 North 12th St., Waco, engr.

Tex., Goose Creek—See "Waterworks."

Tex., Jasper — Voted $65,000 bonds, sewerage system. Address A. L. Black, Jasper, mayor.

Tex., San Antonio—See "Unclassified."

Okla., Blair — Made surveys 19,900 ft. 8- to 12-in. sewers in all streets, incl. disposal plant, and Imhoff tank. $27,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Claremore — Defeated $53,000 bonds, 24,000 ft. outfall sewers in various streets. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted July 21.

Okla., Edmond — Voted $27,000 bonds, extending sewers in various streets. F. H. Peckham, 225 West Grand St., Oklahoma City, engr. Noted Oct. 20.

Okla., Lawton — Making preliminary plans 18,000 ft. 8 in. rein.-con. sewers in 6th and 9th Sts. $25,000. G. Dale, Lawton, engr.

Okla., Ponca City—Making plans 17,600 ft. 8- to 12-in. sewers in Dist. 58. $33,600. H. W. Crawford, Ponca City, engr.

Okla., Wellston — Voted $33,000 bonds, sewerage system. J. C. Milliken, Continental Bldg., Oklahoma City, engr. Noted Sept. 16, 1926.

Wash., Seattle—Dept. Pub. Wks. making plans 2.5 mi. trunk sewer and concrete tunnel under Beacon Hill at Hanford St.; also Ballard Trunk Sewer, 2 mi. 7 ft. concrete. $1,500,000. W. C. Morse, city engr.

Ont., Oshawa—Plans rein.-con. probably activated sludge type sewage disposal plant. $500,000. W. C. Smith, Municipal Offices, engr.

Ont., Toronto—York Twp. plans 5 mi. 8 in. and up vitr. tile sewers in Symes Rd., Humbercrest Blvd., and 6 avenues. $137,653. F. B. Goedike, 40 Jarvis St., engr.

Bids Desired

N. Y., New York—Nov. 1, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Whitlock, Patterson, Compton, Lurting, Hering, Walton and Crosby Aves.; grading, etc. Morris Park and Mayflower Aves.

N. J. Newark — Nov. 10, at City Hall, constructing Sect. 4, Supplementary Joint Trunk Sewer for East Orange, Hillside, Irvington, Maplewood, Milburn, Newark, Roselle Park, South Orange, Summit and West Orange. A. Potter, 50 Church St., New York City consult. engr.; adv. E. N.-R. Oct. 27.

Md., Baltimore—Nov. 2, by Bd. Awards, sanitary sewers and storm drains in Dists. 49, G-14, and P-4, Storm Water Contr. 109. M. J. Ruark, 311 Courtland St., sewerage engr.

Okla., Crescent — Oct. 31, by A. B. Powell, city clk., 18,800 ft. 6- to 10-in. sewerage system, incl. disposal plant, Imhoff tank, etc. $25,000. F. B. King, 829 East Park St., Oklahoma City, engr.

Okla., Ponca City — Nov. 3, by C. E. Norton, city clk., extending 47,010 ft. 6- to 12-in. sewers in Sewer Dist. 47. $67,000. H. W. Crawford, Ponca City, engr.

Calif., Marysville—City Trustees taking bids 3,645 lin.ft. vitr. or concrete sewers, etc., in Yuba St. P. Diver, city engr.

Contracts Awarded

Mass., Nahant—Sewerage system, to A. Baruffaldi, Parker Pl., Somerville, $37,994; and pumping station, to J. Ballintine, 79 Sudbury St., Boston, $9,000.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, to C. Ambrosio, 10404 97th Ave., Richmond Hill, sewers in Stanley Ave. $620, Hopkinson Ave. $789, 17th Ave. $312, and 94th St. $504. Grand total $2,225. Noted Oct. 6.

N. J., Hawthorne — Boro Comrs., J. A. Shea, clk., School 1, Lafayette Ave., Sept. 30, Sects. 1 and 3 sewerage system, to C. Alberto, 308 West Bway., Paterson; and Sect. 2, to LoPorto Constr. Co., 50 South Main St., Lodi. Engrs. est. approximately $350,000. Noted Sept. 15.

S. C., Greenville — Greater Greenville Sewer Dist. Comn., E. H. Fry, supt., Oct. 19 (3rd unit), vitr. clay and c.i. sewerage system from Richland creek to Southern R.R. tracks, to Tucker & Laxton, Independence Bldg., Charlotte, N. C., $70,220. Noted Oct .13.

Mich., Detroit — Dept. Pub. Wks., 1,380 ft. 12- to 24-in. vitr. crock sewers in Lateral Sewer 4915, to Detroit Drainage Constr. Co., Meyers Rd. $3,799, 1,197 ft. Lateral Sewer 4916, to B. Cornacchia, 17644 St. Louis Ave. $4,600, 14,580 ft. in Lateral Sewer 4629, and 16,693 ft. Lateral Sewer 4930, to Louwers & Sommerville, 1224 Michigan Theatre Bldg. $84,770; also 24,413 ft. 12- to 24-in. concrete sewer in Lateral Sewer 4923, to G. Vella, 516 Transportation Bldg., $72,300. Grand total $165,469.

Ill., Chicago — Bd. Local Impvts., Room 207, City Hall, drains in portions North California Ave., to Angelo Santucci, Chicago, in North Oak Park and Saginaw Aves., to M. Murphy, 5854 South Michigan Ave.; tile sewers with brick manholes and brick catch basins in portion Avenue M, to O. Scully, 7658 Laflin Ave., in Roscoe St., Hood and Granville Aves., to F. A. Coda, 2710 South Wells St., in West 80th St. and Lowe Ave., to G. Barry, 5924 South Wabash Ave., in South Union Ave., to A. Scully, 5467 Kamerling St., and in South State St., to G. Anderson, Chicago.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., to Milwaukee Sewer & Drainage Co., 928 Humboldt Ave., sewer in Burdich Ave. $15,013, Jackson Dr. $4,302, Logan Ave. $3,132, 9th Ave. $4,861, 29th Ave. $9,554, and 26th Ave. $11,182; to Deoroz & Phillips, 468 Washington St., 58th St. $438, and Hawley Rd. $3,662; to Zimmermann & Zimmermann, 3402 Wisconsin Ave., 51st St. $3,872, and 24th Ave. $21,054; to W. T. Werner, 575 Hi-Mount Blvd., 40th St. $2,124. Grand total $117,904.

N. D., Jamestown—State Bd. Administration, E. G. Wanner, secy., Bismarck, sewage disposal plant at State Hospital for Insane, here, to E. A. Moline, Jamestown, $39,640. Noted Sept. 22.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, 400 ft. sanitary sewer section to link finished section of River Des Peres Project with Sect. D through Forest Park; also cleaning boulders, etc., from completed part River Des Peres Improvement, to W. E. Callahan Constr. Co., Arcade Bldg., $27,075 and $22,755 respectively. Noted July 7.

Calif., Inglewood—O. H. Duelke, city clk., vitr. sewers in Project 8, Impvt. Dist. 2, to Chutuk, Kordich & Vukojevich, 871 Main St., El Segundo, $62,859.

Calif., Los Angeles—Los Angeles Co. Sanitation Dist. 1, trunk sewer in Compton Ave., to R. Metcalf, 1935 North Commonwealth Ave., $64,300.

Calif., Santa Monica—Sewer in Dewey and Marine Sts., etc., to Gogo & Rados Co., 3274 Descanso Dr., $40,276. Noted Oct. 20.

Ont., Toronto—T. H. Foster, mayor, approximately 3,000 ft. circular brick trunk sewer in Eglinton, Tyrol, and Ingwell Aves., to John Maguire Contg. Co., 964 Mount Pleasant Rd., $98,769. Engrs. est. $100,000. Noted Sept. 15.

Waste Disposal

Bids Desired

Ill., Chicago—Nov .9, by City, Room 406, City Hall, 600 ton incinerator complete with furnaces, buildings, chimney, equipment, etc. R. W. Wolfe, comr. Pub. Wks.

Bridges

Proposed Work

Del., Wilmington—Making plans market St. bridge over Brandywine Creek, on 16th St.; replacing old covered bridge by constructing Rising Sun Bridge and replacing draw bridge by constructing Odessa Bridge, over Appoquinimink Creek on Odessa-Fieldsboro Rd. Harrington, Howard & Ash, 55 Liberty St., New York City, consult. engrs.

Tennessee—State Dept. Highways & Pub. Wks., Nashville takes bids about Dec. 15, 2 concrete and steel bridges over Tennessee River, one at Niles Ferry, Monroe Co. $190,000 and other near Perryville, Perry Co. $900,000. C. N. Bass, highway comr. This corrects report in Oct. 6 issue.

Tenn., Jasper — Marion Co. and State Dept. Highways & Pub. Wks., Nashville, plan 4 bridges (probably concrete) over Guzzard and other creeks, on Nashville-Chattanooga Rd., State Route 2. To exceed $25,000.

Mo., St. Joseph — Voted $400,000 bonds, rein.-con. and steel bridge over Missouri River, here. W. M. Spann, City Hall, engr.

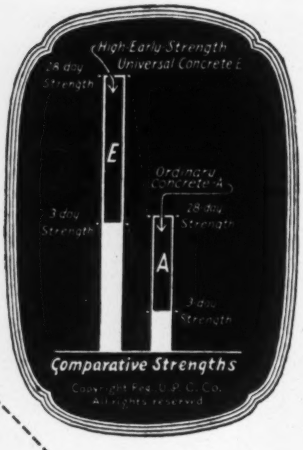
Tex., San Antonio—Making plans 1 span 70 ft. rein.-con. bridge, 60 ft., on Grand Ave. $30,000, and 1 span 70 ft. bridge, 45 ft., on Arsenal St. $30,000, both across San Antonio River, I. Ewig, city engr.

Oklahoma—State Hy. Comn., Oklahoma City, making preliminary plans 96 ft. steel

"Traffic Must Not Be Interrupted",

Said the Officials

And This Is How the Contractor Responded



Paving of Ingram Avenue, Pittsburgh, reached Duncan Street just as that thorofare was scheduled to receive "detour" traffic from another important highway. City officials declared that this traffic must not be interrupted and that Ingram Avenue must be completed without interfering with Duncan Street.

McLaughlin Contracting Co., Pittsburgh, contractor, solved the problem by using *High-Early-Strength* Universal Concrete.

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Bridges (Continued)

truss bridge over Cache Creek west of Temple, $25,000; also 110 ft. steel truss bridge on piers over Beaver Creek and 140 ft. steel truss span bridge over Plum Creek, both on Highway 5, east of Walters, $30,000 each, all in Cotton Co. C. R. Mandigo, Capitol, Oklahoma City, engr.

Okla., Lawton—Making preliminary plans 1 span 36 ft. rein.-con. trestle, on 2nd St. $25,000. G. Dale, Lawton, engr.

Okla., Oklahoma City — Making preliminary plans 3 span 320 ft. concrete trestle, on Walnut St. $150,000. B. M. Hart, City Hall, engr.

Okla., Snyder—Making preliminary plans 2 span 46 ft. rein.-con. trestle, 37.7 tons I-beam steel, 16.45 tons reinforcing, 1,100 ft. wooden piling, etc. $25,000. E. W. Gantt & Co., 1116 West Main St., Oklahoma City, engrs.

Colo., Pueblo—Pueblo Co., c/o W. Barber, clk., plans 3 or 4 span approximately 300 ft. bridge over Fountain River. $40,000. W. Peach, Masonic Blk., engr.

Wash., Blaine — State Hy. Comn., Olympia, takes bids about Nov. 10, 350 ft. concrete bridge, 24 ft. roadway and 5 ft. sidewalk over Dakota Creek, near here. $40,000. S. J. Humes, state highway engr.

Ont., London—Plans 300 ft. steel bridge, on Dundas St. $125,000. W. P. Near, City Hall, engr.

Bids Desired

New York — Nov. 9, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, 2 stone faced rein.-con. and 3 timber faced rein.-con. bridges, on Saw Mill River Parkway, in Hastings, Dobbs Ferry and Greenburgh. J. Downer, Bronxville, ch. engr.; adv. E. N.-R. Oct. 27.

N. Y., Mount Pleasant (mail Hawthorne) —Nov. 7, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, substructure, foundations and wing walls for bridge over New York Central R.R. tracks, north of Mt. Pleasant R.R. station, here. J. Downer, ch. engr.; adv. E. N.-R. Oct. 27.

Pa., Phila. — Nov. 2, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., bridge superstructures, Contr. 121-1927. T. J. Skillman, Broad St. Sta., ch. engr. railroad.

Pa., Pittsburgh — Nov. 2, by Comrs. Allegheny Co., Court House, granite pylons for Liberty Bridge 10, over Monongahela River. C. C. McGovern, co. controller.

S. C., Greenwood — See "Streets and Roads."

Miss., Winona—See "Streets and Roads."

Louisiana—Nov. 15, by State Hy. Comn., Baton Rouge, Castor Creek Bridge, on Olla-Winnfield Highway, State Project 434-A, LaSalle Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Minnesota—See "Streets and Roads."

Tex., Kerrville—See "Streets and Roads."

Oklahoma—Nov. 8, by State Hy. Comn., Oklahoma City, 11 span, 132 ft. timber pile trestle at Ayelsworth, Marshall Co. $30,000. C. R. Mandigo, Capitol, Oklahoma City, engr.

Okla., Darrow — Nov. 8, by J. Stains, clk. Blaine Co., Watonga, 2 span, 90 ft. steel truss span bridge on pile piers, here. $25,000. C. W. Simonds, Watonga, engr.

California—Nov. 7, by State Hy. Comn., Sacramento, one 90 ft. steel deck truss and one 35 ft. concrete girder span bridge over Shotgun Creek, point 3½ mi. south of Sims, Shasta Co.; and three 19 ft. span, and eight 19 ft. span timber bridges, both on creosoted pile bents, Imperial Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Ont., Toronto—Dec. 19, by R. M. Smith, deputy minister Dept. Pub. Highways, Parliament Bldgs., 500 ft. rein.-con. or structural steel and concrete bridge, 100 ft. high over Don River, on Yonge Blvd. $1,000,000. A. B. Crealock, Whitney Blk., bridge engr.

Bids Received

New York and New Jersey — J. E. Ramsey, ch. executive officer Port Authority, 75 West St., New York City, Oct. 14, constructing concrete decks of Outerbridge Crossing over Arthur Kill, between Tottenville, N. Y. and Perth Amboy, N. J., from Cornell Contg. Co., Grand Central Terminal, New York City, N. Y., $626,730; and Elizabeth-Howland Hook Bridge between Elizabeth, N. J. and Howland Hook, N. Y., from A. A. Volk Co., 1819 Bway., New York City, $478,650. Noted Oct. 6.

Contracts Awarded

Maine—State Hy. Comn., Augusta, constructing Depot Bridge, in Cornish, 1,557 cu.yd. concrete, etc., to Cyr Bros. Co., Waterville, $55,841; International Bridge St. Croix River, 367 cu.yd. concrete, to McPhail & Mazor, Woodstock, $10,780; Warren and Burnell Bridges, Baldwin, to J. Cook, Portland, $5,165 and $3,371 respectively; Toll Bridge, Bethel, 416,000 lb. steel, and Wadsworth Bridge, Thomaston, incl. 25,000 lb. machinery, to Boston Bridge Wks., 47 Winters St., Boston, Mass., approximately $25,000 and $36,102 respectively. Noted Sept. 22.

Connecticut—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

N. Y., Syracuse—Bd. Contr. & Supply, City Hall, steel bridge, on Walton St., to W. M. Ballard, City Bank Bldg., $20,329.

New Jersey—Bergen Co., Court House, Hackensack, replanking bridge with wood blocks, on Paterson Plank Rd., between Hudson and Bergen Counties, to Stevens Alquist, Inc., 191 Main St., Hackensack, $85,727.

New Jersey—State Hy. Comn., Trenton, steel and concrete bridge over Big Timber Creek, on Route 6 M.P. 28.5 Camden and Gloucester Counties, to Brann & Stuart, Commercial Trust Bldg., Phila., Pa., $250,290. Noted Sept. 29.

Pennsylvania—State Hy. Comn., Harrisburg, 152 ft. concrete and steel bridge, 20 ft. over French Creek, Erie Co., to Milliron Constr. Co., Du Bois, $39,917. Noted Sept. 8.

La., New Orleans—Dept. Pub. Finances, Purchasing Div., City Hall, superstructure electrically operated plate girder swing bridge across New Basin Canal, on South Claiborne Ave., to W. H. Williams Southern Bldg., $56,450. Noted Sept. 15.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, 24 ft. span slab bridge over Marsh Run, on Sect. "Bluffton North" Lima-Sandusky Rd., Allen Co., to P. B. Putnam, New Haven, Ind., $2,898; one 12 ft., one 13 ft., two 15 ft. and one 24 ft. span slab bridges, on Sects. 'B" and "C" Mallet Creek-Bay Village Rd., Medina Co., to C. L. Morris, East Cleveland, $10,827; 32 ft. span concrete beam bridge, on Sect. "A" Grand Rapids-Bowling Green Rd., Wood Co., to Gluss Bros., Constr. Co., Hamler, $6,136; 36 ft. span bridge, etc., on Sect. "B" Loudonville-Lexington Rd., Richland Co., and two 30 span rein.-con. beam bridge, on Sect. "D" Ashland-Oberlin Rd., Ashland Co., to Allen County Paving Co., Lima, $9,345 and $8,470 respectively; 24 ft. span standard slab bridge over Leatherwood Creek, Sect. "D" Cambridge-Barnesville Rd., Guernsey Co., to Elsass-Meyer Contr. Co., Anna, $4,494; three 40 ft. span curved concrete bridge over Stillwater Creek, Sect. "D" Dennison-National Rd., Harrison Co., to Williams & Stone, 1686 Mock Rd., Columbus, $34,755; 0.019 mi. rein.-con. bridge and approaches over Turtle Creek, Sect. "1" Bono-Port Clinton Rd., Ottawa Co., to Pettibone & Graves, Lakeside, $13,200; 60 ft. span concrete bridge over Elk Fork Creek, Sect. "E" McArthur-Logan Rd., Vinton Co., to J. S. Wilson, Coalton, $8,392; 234 ft. span steel bridge over Duck Creek, Sect. "D" Ohio River Rd., Washington Co., to W. H. Heiby, Marietta, $55,958. Grand total $154,375.

O., Canton—Stark Co., bridge south of here, to E. J. Landor Co., Renkert Blvd., $25,000, engrs. est. $25,000; also 240 ft. plain steel bridge, 40 ft., on Cherry St., Massillon, to Roberts Supply Co., Lima, $87,400, e.e. $85,000.

Indiana—J. D. Williams, dir. State Hy. Comn., Indianapolis, **(e. e. means engrs. est.)**, three 100 ft. span bridge, Road 67, Contr. 178, Greene Co., and two 150 ft. span bridge, Road 66, Contr. 177, Warrick Co., to Vincennes Bridge Co., Vincennes, $69,890 and $49,981 respectively, e.e. $76,655 and $56,437 respectively; two 84 ft. span bridges, Road 34, Contr. 168, Montgomery Co., and 100 ft. span bridge, Road 43, Contr. 174, Tippecanoe Co., to W. H. Grammer, Evansville, $28,621 and $14,632 respectively, e.e. $29,691 and $14,757 respectively; two 65 ft. span bridge, Road 7, Contr. 166, Jefferson Co., to A. E. Hutten, North Vernon, $15,134, e.e. $20,103, 50 ft. span bridge, Road 31, Contr. 167, Miami Co., to Milner & Kepler, Kokomo, $11,124, e e. $11,499; two 150 ft. span bridge, Road 41, Contr. 171, also 12,000 cu.yd. grading, to Davis Constr. Co., Kentland, $48,773, e. e. $54,374, and 32 ft. and 40 ft. span bridges, Road 41, Contr. 172, to D. Jenkins, 501 Gilbert Ave., Terra Haute, $16,238 e. e. $16,789, both Newton Co. Grand total $254,393. Noted Sept. 22.

Mich., Mt. Clemens—Macomb Co. Road Comn., concrete girder type bridge over Clinton River, on McKay Rd., to D. Wood, Yale. Engrs. est. $25,000.

Kan., Ashland—Clark Co., twenty-three 30 in. pile trestle span bridge, and grading 1.122 mi. K 21, Project 365-A, to A. R. Mackey, Greeley, Colo., $18,777 and $7,366 respectively. Noted Oct. 6 under "Streets and Roads."

Kan., Wellington — See "Streets and Roads."

N. D., Kurts (br. Glen Ullin)—Northern Pacific Ry. Co., H. E. Stevens, ch. engr., St. Paul, Minn., rein.-con. viaduct at grade separation, here, to Peppard & Fulton, 442 Metropolitan Bank Bldg., Minneapolis, Minn., approximately $25,000. Noted Sept. 29.

Montana—See "Streets and Roads."

Missouri—State Hy. Comn., Jefferson City, one 8 ft. rein.-con. slab span, etc. over creek, Crawford Co. also one 80 ft. steel truss and two 40 ft. I-beam spans, etc. over Crooked Creek, Crawford Co., to M. E. Gillioz, Monett $770 and $22,013 respectively; two 45 ft. and one 35 ft. rein.-con. deck girder spans, etc. over Chicago, Rock Island & Pacific R.R. tracks, Daviess Co., to T. F. Marbut, Liberty, $11,143; also reflooring bridge over Missouri River, Jackson and Clay Counties, to D. Munre, Kansas City, $166,000. Grand total $199,926.

Tex., Plemons—Hutchinson Co., W. R. Goodwin, judge, rein.-con. and steel bridge over Canadian River between Borger and Stinnett, to Austin Bridge Co., 1815 Clarence St., Dallas, $190,000. Noted Aug. 11.

Wash., Mt. Vernon—Comrs. Skagit Co., 240 ft. steel span bridge over Skagit River, near here, to Cramer Constr. Co., Bellingham, $27,435. Engrs. est. $40,000. Noted Sept. 15.

Wash., Seattle—State Hy. Comn., Olympia one span 200 ft. riveted steel through truss bridge, 48 ft. concrete roadway and two 5 ft. sidewalks over Duamish River, on State Rd. 1, near here, to J. A. McEachren, 522 Colman Bldg., Seattle, $72,337. Noted Sept. 22.

Que., Chicoutimi—Harbor Comrs., Ste. Anne de Chicoutimi Bridge and wharves, to Quinlan, Robertson & Co. Ltd., 702 Sherbrooke St. W., Montreal, $3,000,000. Noted Mar. 17.

Ontario and Quebec—Secretary Federal Dist. Comn., 53 Queen St., Ottawa, Ont., 2 abutments, 30 piers and concrete flooring in connection with extension concrete bridge over Ottawa River from Bate Island, Ottawa, Ont., to Hull, Que., to Quinlan, Robertson & Jansie Ltd., 702 Sherbrooke St. W., Montreal, Que., $147,000. Noted Sept. 8 under "Ottawa, Ont."

Dams

Proposed Work

Pa., Safe Harbor—See "Unclassified."

Contracts Awarded

S. D., Mitchell—T. Eastcott, city aud., constructing dam and bridge at Firesteel Creek, to T. J. Tobin Co., Madison, $115,050. Noted Sept. 29.

Railways

Proposed Work

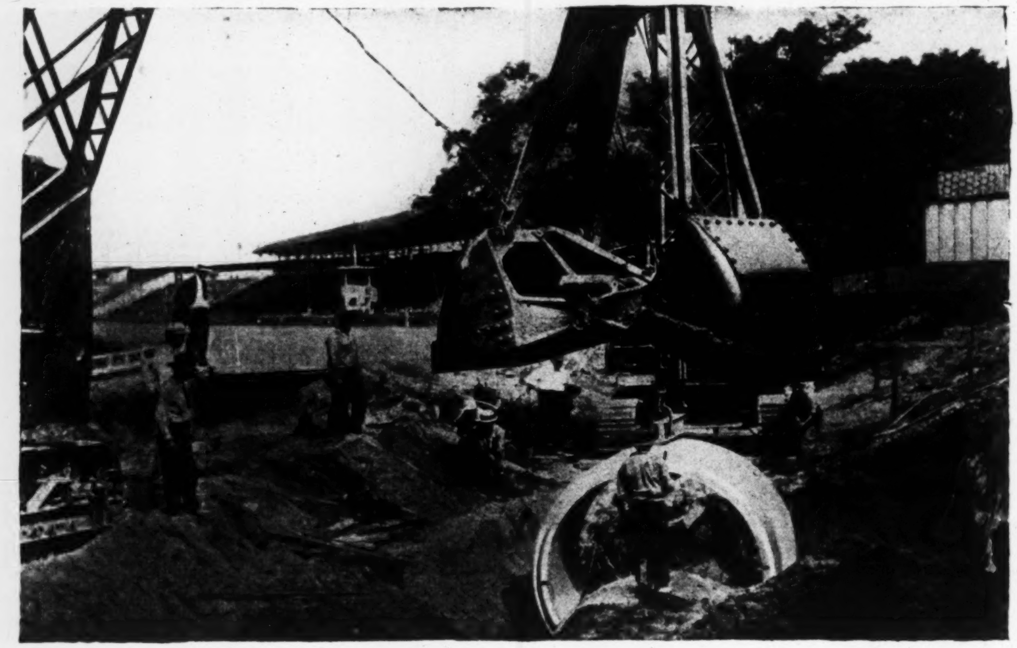
North Carolina—Lenior Northern R.R. Co., Lenior, C. F. Harper, one of directors, plans extending 14 mi. railroad from connection with Carolina & Northwestern R.R. near Setzer's Gap, down the Yadkin River to Buffalo Creek, etc.

Michigan—Pere Marquette Ry., Union Sta., Fort St., Detroit, H. A. Cassil, ch. engr., plans 17 mi. single track railway from Wixom to Pontiac.

Oklahoma and Texas—Clinton & Oklahoma Western R.R. Co., Wichita Falls, Tex., F. Kell, pres., plans 95 mi. railroad from Cheyenne, Okla., to Pampa, Tex. $3,729,845 incl. $128,000 for equipment. Noted May 12.

Contracts Awarded

Montana — Northern Pacific Ry., H. E. Stevens, ch. engr., St. Paul, Minn., relocating Florence-Riverside Branch R.R. south of Hamilton, Bitter Root Valley, Ravalli Co., approximately 400,000 cu.yd. earth excav., and constructing 320 ft. bridge, etc., here, to Morrison-Knudsen Co., 319 Bway., Boise, Idaho. Engrs. est. $720,000. Noted July 14.



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INDEPENDENT

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Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

N. J., Asbury Park — Park Comrs. rejected bids Oct. 18, repairing breakwater near Deal Lake, also constructing stone and timber jetty. Will readvertise. Noted Oct. 13.

Miss., Biloxi—Bayou Bernard D. D. making preliminary plans drainage system, incl. 6 mi. tile and 127,000 cu.yd. open ditch. $300,000. J. W. Billingsley, Interstate Bank Bldg., New Orleans, La., engrs.

Minn., Vernon Center—Blue Earth Co. plans constructing D.D. 74, approximately 8 mi. 8- to 28-in. tile. $18,000. C. J. Swift, Mankato, engr.

Ark., Conway—Levee Dist. 1, Faulkner Co., J. E. Little, dir., soon takes bids approximately 110,000 cu.yd. levee, and repairing about 2 mi. new levee. Dickinson & White, Boyle Bldg., Little Rock, engrs. Noted Aug. 18.

Colo., Nepesta—Nepesta Ditch & Irrigation Co., c/o E. F. Nichols, secy., Court House, Pueblo, voted $100,000 bonds, reservoir near here.

Ont., Ottawa—Dept. Railways & Canals, Parliament Bldgs., plans concrete and rein.-con. retaining wall on east bank Rideau Canal at Union Station. $100,000-$150,000. W. A. Bowden, Parliament Bldgs., engr.

Bids Desired

Mass., Waltham — See "Streets and Roads."

New York—Oct. 31, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, additional fill, etc., on Hutchinson River Parkway, near Weaver St. and Mamaroneck Ave., Scarsdale, White Plains, New Rochelle. J. Downer, ch. engr.; adv. E. N.-R. Oct. 27.

Ill., Owaneca—Nov. 5, by Comrs. Union D.D. 1, Christian Co., at Resler Schoolhouse, 49,519 ft. ditch work, incl. 133,536 cu.yd. excav.. etc. J. W. Dappert, Taylorville, engr.

Contracts Awarded

Mass., Boston—Metropolitan Dist. Water Supply Comn., 24 School St., clearing about 30 acres, and excavating 20,000 cu.yd. for 1 mi. open channel, also excavation for reservoir, in Hopkinton, to Sanders Eng. Co., 102 Exchange St., Portland, Me., $360,720 and $29,450 respectively. Noted Sept. 15.

Connecticut — State Hy. Dept., Hartford, concrete retaining wall at Windsor Underpass, in Windsor. to Lathrop & Shea Co., 185 Church St., New Haven, $23,995; 40 ft. span concrete girder bridge over Raymond Brook, on Colchester-Hebron Rd., in Hebron, to L. Suzio Constr. Co., State and Brooks Sts., Meriden, $8,633; rein.-con. paving 771 lin.ft. approaches to Johnson's Bridge over New York, New Haven & Hartford R.R. tracks, in East Hampton, to F. D. Miller & Co., 43 Bway., Norwich, $8,897; 2,100 ft. 8 in. rein.-con. paving approaches to Castle Bridge and substructure, Litchfield and Harwinton, to J. DeMichael & Bros., 58 High St., Torrington, $73,777; also rigid frame bridge and approaches over Little River, on Scotland-Canterbury Rd., to T. F. McGovern, Southbridge, Mass., $13,665. Grand total $128,-967. Noted Oct. 6.

Louisiana—Tensas Bason Levee Dist., H. A. Manghan, secy., 93,750 cu.yd. enlargement and levee work in Ouachita Parish, and 42,862 cu.yd. in Coldwell Parish, to Howard Kenyon Dredging Co., P.O. Box 5, Houston, Tex., at $0.235 per cu.yd. Noted Aug. 18.

Louisiana — Bd. State Engineers, New Court House Bldg., New Orleans, 62,000 cu.yd. levee work in Atchafalaya River, at Waverly, to R. R. Phillips, Torras, $19,-344, and Belaire China Grove Levee, 97,000 cu.yd. excav., to Dameron & Kenyon, Port Allen, $20,388, both Pointe Coupee Parish; also 35,000 cu.yd. in Red River, at Beauregard, Avoyelles Parish, to Douglas, Buchanan & Crow, Shreveport, $5,950. Grand total $46,682.

La., Vidalia—Bd. State Engineers, Court House Bldg., New Orleans, enlarging Riverside Levee, Concordia Parish, here, to J. S. Staton, Vidalia, $38,360.

Ind., Tipton—Excavating 290,423 cu.yd. Askren ditch, to R. Kelley, Pontiac, Mich., $26,090.

Ill., Edwardsville — Chouteau Island Drainage & Levee Dist., c/o Hiles & Newell Edwardsville, repairing breaks, Chouteau Island levee and constructing new levee, to Higgins-Dyer & Co., Granite City, $15,012. Noted Aug. 25.

Kan., Burlington—City and Coffey Co., flood control project, incl. widening. and straightening Brush Creek Channel, ditching, and constructing 2 bridges, to Pioneer Constr Co., 270 Glover Bldg., Kansas City, Mo., approximately $66,000.

Calif., Byron—Byron-Bethany Irrigation Dist., concrete lining approximately 258,840 sq.ft. canals, to J. N. Kristich, Knightsen, at $0.125 per sq.ft.

Streets and Roads

Proposed Work

Mass., Boston—City Council appropriated $25,000, macadam paving roads in Franklin Park. Private plans.

Mass., Brighton (Boston P. O.)—Dept. Pub. Wks., Boston, plans constructing Ransom Rd. as highway and extending Willow St., here. $25,000. J. H. Sullivan, comr.

N. J., Oaklyn—Boro Council making plans grading and paving Cedar, Spruce, Holly, Landis, Walnut and Park Aves. $40,000.

N. J., Trenton—Bd. Freeholders Mercer Co., making plans concrete paving 3,425 ft. road from Marshall's Corner to Hopewell. $57,000. H. F. Harris, Trenton, co. engr.

Miss., Ashland—Comrs. Benton Co. soon take bids grading, graveling, etc. 19 mi. road from Tippah Co. line west of Walnut toward Marshall Co. line, 18 ft. $130,000.

Miss., Tylertown—Soon takes bids grading, curbing and concrete paving, etc. various streets. $50,000. H. A. Mentz, Hammond, La., engr.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, received no bids Oct. 7, grading, concrete or bituminous macadam paving, etc., 1.08 mi. Sect. "E" McConnelsville Rd., Morgan Co. Noted Sept. 29.

O., Youngstown—Bd. Control soon takes bids widening and paving, etc. Market St. from Delason to Warren Aves. $50,000-$60,000.

Bids Desired

Mass., Boston — Nov. 1, by Dept. Pub. Wks., Boston, sheet asphalt or bitulithic paving Aldrich St., Ward 20, and various streets in Ward 11. $25,000. J. H. Sullivan, comr.

N. Y., Brooklyn—Nov. 1, by Park Bd., W. R. Herrick, pres. Park Dept., Arsenal Bldg., Central Park, New York City, improving Coney Island Ave. from Ocean Parkway to West 5th St., here.

N. Y., New York—Oct. 31, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading and granite block on concrete repaving Beach St. and Ericsson Pl.; grading and sheet asphalt paving 39th, 40th and Sickles Sts., also on Lenox Ave. except 10 in. strip parallel with railroad tracks, with granite block on concrete paving.

New Jersey—Nov. 7, by State Hy. Comn., Trenton, grading, bridging and 8 in. rein.-con. paving, etc. 55,826 sq.yd. Route 41 (Revision of 1927), Sect. 1, Firview to Runnemede, Gloucester and Camden Counties. A. L. Grover, ch. clk.; adv. E. N.-R. Oct. 27.

S. C., Greenwood—Nov. 2, at office Greenwood Co. Hy. Comn., Amer. Bank Bldg., grading, 4 creosoted timber bridges and topsoiling, etc. 16,000 cu.yd. Callison-Bradley Rd., J. B. Sloan, Greenwood, chn. highway Comn.

Alabama—Nov. 22, by State Hy. Dept., Montgomery, **(S. R. means State Route)**, grading, concrete, bituminous concrete or sheet asphalt, etc., paving 33,264 sq.yd. roadway between Andalusia and Brewton, roadway betwen Andalusia and Gantt, and 135,828 sq.yd. roadway from Perdido Station to Bay Minette, Baldwin Co., and 15,-840 sq.yd. roadway between Brewton and Bay Minette, on S. R. 9; 99,742 sq.yd. roadway between Troy and Orion, Pike Co., 11,-088 sq.yd. roadway between Decatur and Birmingham, in Cullman Twp., Cullman Co., 210,672 sq.yd. road from Louisville & Nashville R.R. overhead crossing near Prattville to Chilton Co. line near Mt. Creek, Autauga Co., 55,440 sq.yd. roadway from Dothan city limits toward Ozark, and 94,248 sq.yd. roadway between Ozark and Choctawhatchee River, Dale Co., all foregoing on S. R. 7; 66,584 sq.yd. roadway from Minette to Fairfax, S. R. 29; 22,176 sq.yd. Brewton-Evergreen Rd., S. R. 24; and 10,250 sq.yd. roadway in Tuskegee and ending where road forks to Columbus, Ga., and Union Springs, Ala., S. R. 26 and 11. W. Finnell, highway dir.

Miss., Bay St. Louis—Nov. 8, by Road Protection Comn., Hancock Co., concrete curbing, 8 in. concrete or 6 in. rein.con. paving 228,000 sq.yd. road along Bay St. Louis. J. W. Billingsley, Interstate Bldg., New Orleans, La., consult. engr.

Miss., Jackson—Nov. 10, by Bd. Supervs. Jackson Co., improving 16 mi. Raymond-Utica Rd., 109,304 cu.yd. excav. and borrow, 169,820 lin.ft. concrete curbing, 169,-826 sq.yd. concrete base course, concrete paving or vibrolithic concrete base, 160,391 sq.yd. asphaltic base course, 168,567 lb. reinforcing, etc. W. B. Montgomery, Court House, engr.

Miss., Winona — Nov. 7, by Supervs. Montgomery Co., clearing, grading, bridging, etc., 190,778 cu.yd. Greenwood-West Point Rd. H. C. Dietzer, Jackson, state highway engr.

Louisiana—Nov. 17, State Hy. Comn., Baton Rouge, grading and graveling 4.95 mi. Bernice-Farmerville Highway, State Project 554-A, Union Parish; and 9.858 mi. Leesville-Alexandria Highway, Federal Aid Project 157-A, Vernon Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Louisiana—Nov. 17, by State Hy. Comn., Baton Rouge, graveling 14.3 mi. Greensburg-Baton Rouge Highway, St. Helena Parish. N. W. Bowden, state highway engr.

La., Bastrop—Nov. 22, by J. L. White, engr. Moorehouse Parish, grading and graveling 3 mi. Bastrop-Monroe Highway Project A, 1.75 mi. Bonner Ferry Rd. Project C, and 1.5 mi. Bastrop-Perryville Highway Project J.

La., Monroe — Nov. 2, by City Council, grading, curbing, guttering, sidewalks and sheet asphalt paving Gordon St. from Thomas to Monton Sts. W. I. Neel, Monroe, engr. Noted Sept. 29.

Kentucky—Nov. 22, by State Hy. Dept., Frankfort, grading, etc. 3.8 mi. Hartford-Calhoun Rd., State Project 66-A, and 2.7 mi. Beaver Dam-Rozine Rd., State Project 66-B, both Ohio Co.; and 26.1 mi. Morehead-Sandy Hook Rd., State Project 49-A, Elliott and Rowan Counties. E. N. Todd, highway engr.

O., Troy—Nov. 15, by Comrs. Miami Co., improving 6.7 mi. Troy-West Milton Rd., 16 ft., incl. 2 bridges $239,000. State appropriates $143,000 toward cost. H. Bagford, Troy, engr.

Ind., Angola—Nov. 7, by Comrs. Steuben Co., graveling 15,964 ft. Fred Imus et al Rd., Salem Twp., $16,438; and 5,350 ft. John Auspaugh et al Rd., Pleasant Twp., $8,760. F. O. Watkins, Angola, aud.

Ind., Goshen—Nov. 7, by Comrs. Elkhart Co., grading and concrete paving 8,193 ft. Twp. Unit R-4 Rd., $40,965; and 4.763 ft. Twp. Unit K-1 Rd., $23,815, both in Concord Twp. C. A. Croop, Goshen, aud.

Ind., Greenfield — Oct. 31, by Comrs. Hancock Co., Kentucky rock asphalt paving 5,224 ft. John J. Early et al., Rd., Center Twp. $42,000. G. O. Dunn, Greenfield, aud.

Michigan — Nov. 10, by H. C. Fleming, resident engr., Grand Rapids, grading 3.337 mi. Federal Aid Road FO54-7, Contr. 2, Mecosta Co., for State Hy. Dept., Lansing. Noted Oct. 20.

Minnesota—Nov. 1 (extended date), by State Hy. Comn., St. Paul, **(F.A.P. means Federal Aid Project and S.P. State Project)** grading 179,000 cu.yd. S.P. 4-41, and 222,-500 cu.yd. S.P. 4-42, F.A.P. 406, 300,000 cu.yd. S.P. 7-42, F.A.P. 408, and 741,000 cu.yd. S.P. 20-34, F.A.P. 411; grading 220,-000 cu.yd. and constructing Bridges 4757 and 4758, on S.P. 7-40, Sect. 2, F.A.P. 365; graveling 25,950 cu.yd. S.P. 2-34; concrete paving 115,000 sq.yd. S.P. 5-31, Sect. 1, F.A.P. 91,200 sq.yd. S.P. 5-31, Sect. 2, and 27,200 sq.yd. S.P. 5-31, Sect. 3, F.A.P. 380, 29,000 sq.yd. S.P. 5-36, Divs. B and C, F.A.P. 345, 45,000 sq.yd. S.P. 51-21, F.A.P. 288, and 81,200 sq.yd. S.P. 52-21, F.A.P. 381. State Hy. Dept, St. Paul, engrs. Noted Oct. 6.

Kan., Topeka—Nov. 14, by Clerk Shawnee Co., grading, culverts and concrete surfacing 10,609 sq.yd. Wakarusa Spur. W. H. Wasson, Topeka, co. engr.

Ark., Pine Bluff—Nov. 3, by City Comn., grading, curbing, guttering and concrete paving 14,880 sq.yd. Impvt. Dist. 96. G. B. Smith, 410 Natl. Bank Bldg., engr. Noted Aug. 25.

Tex., Kerrville — Nov. 14, by R. A. Thompson, state highway engr., Austin, grading and bridging 11.251 mi. State Highway 41, Federal Aid Project 520-A, Unit 1, 26 ft. Kerr Co. $90,000. B. K. Mason, Kerrville, resident engr.

Streets and Roads (Continued)

Tex., Ralls—Nov. 8, by J. M. De Bolt, mayor, grading, sewers, curbing, concrete, brick, Uvalde rock, asphalt, Warrenite-bitulithic or vitrolithic paving approximately 26,646 sq.yd. various streets, $95,000. Montgomery & Ward, Wichita Falls, consult. engrs.

Tex., Ranger—Nov. 3, by Bd. City Comn., c/o M. E. Ware, secy., curbing, guttering, and paving, etc., approximately 60,000 sq. yd. various streest. H. R. Seward, city engr. Noted Sept. 22.

Tex., San Angelo — Nov. 14, by R. A. Thompson, state highway engr., Austin, grading and concrete paving, etc., 15.67 mi. State Highway 9, Federal Aid Project 338, from point 8.5 mi. northeast of here to Concho Co. line, 18 ft. $300,000. T. J. Kelly, San Angelo, co. engr.

Oklahoma—Nov. 8, by State Hy. Dept., Oklahoma City, grading, etc., 7 mi. Highway 8, $30,000, and 7 mi. Highway 11, $30,000, both Alfalfa Co., 10 mi. Highway 3, $50,000, 8.6 mi. U. S. Highway 66, $40,000, and 4.76 mi. State Road 42, $25,000, all Beckham Co., 12 mi. Highway 3, Canadian Co. $75,000, 7 mi. Highway 70, Carter Co. $40,000, 7 mi. Highway 19, Cole Co. $35,000, 15 mi. Highway 11, Kay Co. $60,000, 10 mi. Highway 9, Kiowa Co. $45,000, 11 mi. Highway 3, Pittsburg Co. $50,000, 5 mi. Highway 18, Pottawatomie Co. $35,000, 7 mi. Highway 64, Sequaha Co. $30,000, and 9 mi. Highway 41, Washita Co. $50,000; rock asphalt surfacing 32,000 sq.yd. Highway 3, Pittsburg Co., $85,000; concrete slab surfacing 18,200 sq.yd. State Highway 3, Canadian Co. $40,000, 73,560 sq.yd. State Highway 7, Creek Co. $210,000, 21,120 sq.yd. Highway 3, Pottawatomie Co. $60,000, and 42,240 sq.yd. same road $125,000. C. R. Mandigo, Capitol, Oklahoma City, engr.

Okla., Oklahoma City — Nov. 9, by M. Peshek, city clk., grading, curbing and 7 in. concrete paving 9,800 sq.yd. Euclid, Foushil and Bath Sts. $32,400. B. M. Hart, City Hall, engr.

Okla., Tecumseh—Nov. 1, by A. W. Goar, chn. Comrs. Pottawatomie Co., graveling, etc., 36,000 cu.yd. Trousdale, Wey and Tribley Rds. $95,000. F. D. Brown, Shawnee, engr.

Okla., Wewoka—Oct. 31, by E. J. McBride, city clk., grading, curbing and 6 in. concrete paving 23,200 sq.yd. streets in Dist. 12. $92,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Sept. 1.

California—Nov. 7, by State Hy. Dept., Sacramento, widening with rock borders 24 mi. roadway between Orcutt and Zaca, Santa Barbara Co., and 8.7 mi. roadway between Los Banos and east boundary, Merced Co.; also grading and crushed gravel or stone surfacing, etc. 1.8 mi. roadway between point 1 mi. south and 1 mi. north of Arno, Sacramento Co. R. M. Morton, Strub Bldg., Sacramento, engr.

California—Nov. 14, by State Hy. Dept., Sacramento, grading and crushed stone surfacing, etc. 5.2 mi. roadway between South San Francisco and Bway. Station, San Mateo Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Calif., Salinas — M. R. Keef, city clk., taking bids grading and 5 in. concrete paving, etc. 71,621 sq.ft. Park St. H. Cozzens, city engr.

Contracts Awarded

Maine — State Hy. Comn., Augusta, graveling, etc. 3 mi. highway in East Millinocket, and 2.48 mi. in Connor, to McCabe & Giovannine, 20 Central St., Boston, Mass., $42,208 and $33,623 respectively; 1 mi. in Madawaska, to P. A. Cyr & T. Soucy, Grande Isle, $30,267; 4.61 mi. in Embden-Solon, to I. J. Murphy, 12 Westford Rd., Somerville, $50,703; and 1.67 mi. in Island Falls, to Litchfield & Douglas, Brunswick, $23,090. Grand total $179,891. Noted Oct. 13.

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 21,935 ft. highway in Northampton and Williamsburg, 18 ft., to Kelliher Corp., Turners Falls, $158,382. Noted Oct. 27.

Mass., Dorchester (sta. Boston)—Dept. Pub. Wks., Boston, recut granite block paving Freeport St., Wards 15 and 16, here, to S. J. Tomasello, 11 Cushing Terrace, $26,846. Noted Oct. 13.

Mass., Medford — Bituminous macadam repaving Highland Ave., to F. J. McCarthy, 3 Endicott St., Boston, $40,123.

Connecticut — See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading West 1st St., to G. N. Mandato, 201 Neck Rd. $3,285, and 64th St., to F. Persicano, 350 Fulton St., $3,195; grading and sheet asphalt repaving DeKalb Ave., to Cranford Co., 52 9th St. $35,033, Dumont Ave., to Highway Impvt. Co., Furmans Island $39,852, Hancock St., to Cleveland Trinidad Paving Co., Flushing $32,396, and Hewes St., to Sicilian Asphalt Co., 41 Park Row, New York City $13,483. Grand total $127,244. Noted Oct. 6.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., asphalt block paving portion Northern Blvd., J. J. O'Brien Jr., William St., Jamaica, $38,395; sidewalks on Northern Blvd., to C. Kurth, 5915 126th St., Richmond Hill $2,530, 114th St., to Laurel Hill Constr. Co. $3,400, and on Celtic Ave., to Slattery Constr. Co., 10 East 43rd St., New York City $1,497. Grand total $45,822. Noted Sept. 29.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., widening and granite block repaving portions Avenue C and 94th Sts., to J. Meehan & Son, 90 West St., $51,108 and $18,070 respectively. Noted Sept. 29.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading and sheet asphalt paving Croes Ave., to F. Mascali, 2550 Colden Ave. $15,595, Van Nest Ave., to Gaffney Constr. Co., Hermaney and Story Aves. $24,975; asphalt block on concrete paving East 159th and East 141st Sts., to Regan Towers Co., 124 West 121st St., $11,214 and $30,680 respectively, and Sheridan Ave., to Burnside Contg. Co., 1339 Oak Pl. $33,154. Grand total $115,618. Noted Oct. 6.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, concrete sidewalk on Prospect Pl. $7,472, and Bard Ave. $4,755, also grading and bituminous macadam paving Burnside Ave. $8,861. Grand total $21,088. Noted Oct. 6.

N. Y., Syracuse—Bd. Contr. & Supply, City Hall, paving Lafayette Ave. from Saline to Midland Sts., to Rago Bros., Union Bldg., $25,423.

New Jersey—State Hy. Comn., Trenton, grading and 9 in. double line rein.-con. paving, etc., 55,290 sq.yd. Shore Relief Route, Revision of Route 4, Monmouth Co., to E. H. Ellis, Wilson Bldg., Camden, $284,208. Noted Oct. 6.

N. J., Irvington (br. Newark)—Bd. Town Comrs., Town Hall, grading, curbing and 6 in. rein.-con. paving Claremont Ave., to J. Dorer, 644 Nye Ave., Washington Ave. and Willis Pl., to A. J. Milmoe, 92 South 6th St., Newark, Lafayette Pl. and Norwood Ave., to Loprete Asphalt Co., 423 Amherst St., East Orange.

Pennsylvania—State Hy. Comn., Harrisburg **(R. means Route and A. Application)**, rein.-con. paving, etc. 8,300 sq.yd. A. 4709, Erie Co., to C. H. Fry Constr. Co., 1902 Cherry St., Erie, $35,053; 5,901 sq.yd. R. 153, Bucks Co., to H. E. Kersteen, Kingston, $27,253; 52,200 sq.yd. As. 4561-2508 and 2509, Westmoreland Co., to J. C. Mickey, Latrobe, $249,800; 10,435 sq.yd. R. 50, Somerset Co., to James & Nicholson, Johnstown, $45,067; 21,659 sq.yd. A. 4682, Delaware Co., and 9,100 sq.yd. A. 4947-48, Bucks Co., to W. Eisenberg, Camden, N. J., $72,685 and $38,766 respectively. Grand total $468,624. Noted Sept. 8.

Pennsylvania—State Hy. Comn., Harrisburg **(R. means Route and A. Application)**, concrete paving, etc., 13,700 sq.yd. A. 274, 273 and 5012, Armstrong and Indiana Counties, to Minus Bros., DuBois, $53,391, 52,100 sq.yd. R. 61, Jefferson Co., to D. W. Challis & Sons, 420 Centennial Ave., Sewickley, $193,350, 12,200 sq.yd. A. 4270 and 1215, Fayette Co., to Blue Ridge Constr. Co., Uniontown, $85,640, 2,600 sq. yd. R. 205, Venango Co., to Milliron Constr. Co., DuBois, $31,689, 36,600 sq.yd. R. 387, Butler Co., to State Constr. Co., New Kensington, $164,459, 21,800 sq.yd. A. 347 and 346, Westmoreland Co., to Yost Constr. Co., Pittsburgh, $86,291, 23,400 sq. yd. R. 140, Lebanon Co., to D. L. Risser, Lebanon, $92,971, 36,900 sq.yd. R. 420, Delaware Co., to W. Eisenberg, Camden, N. J., $135,753, 59,900 sq.yd. R. 67, Indiana Co., to M. Bennett & Sons, Indiana, $256,857, 8,900 sq.yd. R. 175, Northampton Co., to Lincoln Constr. Co., Strafford, $40,981, and 13,930 sq.yd. R. 222, Sects. 2 and 3, Bedford Co., to Brady & Shaulls, Mechanicsburg, $63,045; bituminous treated waterbound macadam paving, etc., 30,800 sq.yd. A, 4041, Warren Co., to Jamieson & Knapp, Fredonia, $113,317; and penetration asphaltic macadam paving, etc., 30,462 sq.yd. A. 4544, Butler Co., to Jones Constr. Co., Beallsville, $109,663. Grand total $1,427,407. Noted Sept. 29.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, Union Paving Co., 123 South 21st St., asphalt paving (assessment work) Alma St. $4,889, Miller St. $4,694, Vandike St. $4,920, and Belmont Park (track area) $43,885, to Barber Asphalt Co. 239 North 30th St., Frontenac St. $3,272, L St. $28,412, 66th Ave. $8,438, and asphalt repaving Moore St. $20,967, to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., Loretta St. $16,927; to Eastern Asphalt Co., Penna Bldg., asphalt paving, here, (assessment work) Tulip St. between Sanger and Foust Sts. $6,088, and Tulip St. between Kennedy and Sanger Sts. $10,154, and to Municipal Constr. Co., Washington Sq. Bldg., Rhawn St. $25,766; to C. G. Centrone, 522 North 65th St., redressed granite block repaving Melon St. $5,345; and to J. Salvucci, 512 North 65th St., 4th St. $15,702; to M. Y. Neely, Inc., Busleton St., improving Saville Rd. $4,076; to Atlantic Refining Co., 260 Broad St., bituminous paving materials, $1,610; and to Delaware River Quarry & Constr. Co., 21 Bridge St., Lambertville, N. J., crushed stone, $7,195. Grand total $212,340.

Pa. Pittsburgh—City Council, general contract grading, curbing and paving Mt. Washington Rd., Contr. 62, to Dunn & Ryan Constr. Co., Swineburne Ave. Engrs. est. $25,000. Noted Oct. 6.

Pa., Pittsburgh—Grading, curbing and paving Idlewild and Rose Sts., Larimer and Crotzeo Aves., to Booth & Flinn Ltd., Forbes St., $29,461. Engrs. est. $35,000.

Pa., Wilkinsburg—Grading, curbing and paving Hill Ave. between Everett and Weinman Sts., also Mill St., to Davis Constr. Co., Wilkinsburg. Engrs. est. $25,000.

Delaware—State Hy. Dept., Dover, grading and concrete paving, etc. 11,000 sq.yd. road from Pleasant Valley School to Lincoln Highway, Contr. 95, to Sutton Contg. Co., Phila., Pa., $52,225; and 22,800 sq.yd. road from Warren School to Sandtown, Contr. 94, to Field, Barker & Underwood, Commercial Trust Bldg., Phila., Pa., $67,335. Noted Sept. 8.

W. Va., Huntington—Cabell Co., grading, etc., Projects 23, 27 and 28, Barboursville Dist., to S. C. Isaacs & Co., Hamlin, $28,086; and Project 24, to R. R. Cook, Huntington, $35,062. Noted Aug. 25.

Miss., Carthage—Leake Co., grading and graveling 4 mi. Carthage-Forest Rd., Federal Aid Project 103, to T. E. Martin & Co., Laurel, $7,548; 12,271 tons gravel for same, to Capitol Gravel Co., Hazelhurst, $15,646. Noted Aug. 25.

Miss., Oxford—Bd. Supervs. Lafayette Co., improving 8.479 mi. Federal Aid Project 97-B, 66,685 cu.yd. excav., 35,489 cu.yd. borrow, 111,583 lb. reinforcing, 2,730 ft. concrete guttering, 800 ft. guard rail, 72,914 ft. creosoted and 2,520 ft. untreated timber, etc. to S. M. Boyd, Columbia, $86,648.

Miss., Oxford—Lafayette Co., plain concrete paving 1,032 sq.yd. and sheet asphalt with binder course on 7- 5- 7-in. concrete paving 9,837 sq.yd. Federal Aid Projects 66-A and 97-A, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, N. C., $25,870. Noted Sept. 8.

Louisiana — State Hy. Comn., Baton Rouge, graveling 20,050 cu.yd. Federal Aid Project 180B, Franklin Co., to Monroe Sand & Gravel Co., Monroe, at $2.25 per cu.yd.

Louisiana — State Hy. Comn., Baton Rouge, grading and graveling 14.75 mi. Bossier City-Arkansas Rd., Bossier Parish, to J. C. Wimberly, Church Point, $94,494; 0.89 mi. Vinton-Orange Highway, Calcasieu Parish, to W. T. Burton, Sulpher, $13,444; 25.938 mi. Sulphur-Cameron Highway, Cameron Parish, to C. R. Cummins Co., Penton Bldg., Cleveland, O., $106,790; and 14.074 mi. Alexandrie Beesville Highway, Rapides Parish, to Duncan Bros. & Herndon, Alexandrie, $110,695. Grand total $325,423. Noted Sept. 15, 22, 29 and Oct. 6.

La., Ville Platte — Grading and graveling 12.84 mi. road between St. Landry and Concordia, Evangeline Parish, to Wimberly & Barbour, Church Point, $32,812.

La., West Monroe—To Gulf Coast Constr. Co., Opelousas, grading and natural limestone rock on 6 in. concrete paving, etc. Lazarre Ave., $6,401, South 1st St. $7,540, Mitchell Ave. $10,736, and South 3rd St. $24,241; also to Hamiter & Hyman, Shreveport, Coleman Ave., $24,643, and Mill St. $28,099. Grand total $101,660.

Ky., Murray—Calloway Co., graveling 2 mi. Pine Bluff Rd., to J. W. Hodges at $0.59 per sq.yd., 2 mi. same road, to C. M. Cahoon $0.495, 2 mi. same road, to J. D. Roberts $0.45, 3 mi. same road, to S. A. Douglass & T. M. Brandon $0.73 and $0.50, 4 mi. Coldwater Rd. to Graham, Wilson & Nanny $0.525, 4 mi. same road, to F. D. Radford $0.49, and 4 mi. same road, to B. Crawford $0.50, all in Murray.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, bituminous macadam paving, etc., 6.781 mi. Sect. "A" Highridge-Bellaire Rd., Belmont Co., to T.

Streets and Roads (Continued)

D. Van Camp, 48 Parkwood Ave., Columbus, $254,948, 2.909 mi. Sect. "D" Bucyrus Tiffin Rd., Crawford Co., to H. Candel, Bucyrus, $60,100, and 0.984 mi. Sect. "D" Reynoldsburg-Baltimore Rd., Franklin Co., to S. T. Knight, 47 Miami Ave., Columbus, $25,375; concrete paving, etc., 0.472 mi. Sect. "Warsaw" Mt. Vernon-Coshocton Rd., and 1.456 mi. Sect. "A-1" Coshocton-Millersburg Rd., both Coshocton Co., to Adams Bros. Constr. Co., Zanesville, $24,019 and $53,275 respectively, 3.91 mi. Sect. "D" Jackson-Gallipolis Rd., Jackson Co., and grading, etc., Sect. "K," etc., Pomeroy-Jackson Rd., Meigs Co., to Ebersbach Constr. Co., Pomeroy, $131,238 and $98,089 respectively; concrete paving 1.504 mi. Sects. "Mingo Junction South" and "Q" Ohio River Rd., Jefferson Co., to Consolidated Eng. Co., Natl. Bank of West Va., Wheeling, W. Va., $74,925, 3.181 mi. Sect. "I" Bono-Port Clinton Rd., Ottawa Co., and to Pettibone & Graves, Lakeside, $100,600; also grading, etc., 5.071 mi. Sect. "A-1" Barnesville-Powhatan Rd., Belmont Co., to G. W. Robbins, Delaware, $48,048, and 3.362 mi. Sect. "D" Dennison-Natl. Rd., Harrison Co., to Williams & Stone, 1686 Mock Rd., $55,812; also Hillside brick paving, etc., 0.25 mi. Sect. "A-1" Urbana-Sidney Rd., Shelby Co., to J. Frantz, Sidney, $12,435. Grand total $938,864.

O., Cleveland—Grading, curbing and concrete paving 51,124 sq.yd. North Miles Rd., to Highway Constr. Co., Guarantee Title Bldg., $205,755; also grading and concrete paving 3,150 sq.yd. Orange Ave., to Rieley Bros., The Arcade, $31,257.

O., Cleveland — Cuyahoga Co., grading 198,000 cu.yd. Gates Mill Blvd., to Stroman & Kidder, Ridge Rd., $85,322.

O., Cleveland — Cuyahoga Co., grading 200,000 cu.yd. Shaker Blvd., to Herkner Motor Trucking Co., 1730 Oregon Ave., $91,564. Engrs. est. $114,300.

Mich., Detroit—One course 6 in. concrete paving approximately 5,000 sq.yd. in 7 alleys, to Bishop & Weir, 955 East Jefferson Ave., $12,430; approximately 4,000 sq.yd. 3 alleys, to Otis Cement Constr. Co., 409 Hammond Bldg., $10,080; and approximately 650 sq.yd. 1 alley, to W. G. Tatti, 1337 Three Mile Dr., $1,535. Grand total $24,045.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, 6 to 13 ft. concrete sidewalks on portions West 17th Pl., West Pershing Rd., West 19th, 73rd, 74th, 75th and 102nd, East 54th, 81st. 82nd, 83rd, 84th and South Sangamon Sts., Vincennes, Yale, Princeton, Harvard, Stewart, Eggleston, Stony Island, Harper, Blackstone, Dante, Chester, Lowe and University Aves., to Superior Concrete Constr. Co., 1109 East 52nd St.; on portions East 44th, West 71st and West 72nd Places, East 41st, West 71st, 72nd, 63rd, South Dearborn, South Robey, South Seeley, South Hoyne, Root, West Division and North Herald Sts., Cullen, Montrose, Berteau, North Menard, North Mansfield, Canalport, Harper, South Halsted, Rosemont and Yale Aves., to Banner Constr. Co.; portion Newport Ave., to Siewert-Callsen Co., 3865 Milwaukee Ave.; portion New Hampshire Ave., to O. E. Brooks & Son, 6238 Northwest Highway; portions West 44th and West 57th Places, Roscoe, Henderson, School, Melrose, South Dearborn, West 47th, South Green, Root, South Sangamon, and North Troy Sts., Belmont, North Linder, North Central, Kimball, Magnolia and Wellington Aves., to Simpson Constr. Co., 1113 South Hermitage Ave.; portions Bway., Giddings, Slocum, Aster, Bissell, Center, Fremont, Grace and Roscoe Sts., Leland, North Marmora, Aldine, Claybourne, Cleveland, Elston and Garfield Aves., to J. J. Croake & Son, 2927 Fullertin Ave.; portions Quincy, West Van Buren, North Washtenaw, Burling, Blackhawk, Crosby, West Elm, West 46th, High, South Leavitt, Milwaukee, Osgood, Sedgwick and Wisconsin Sts., Peterson, Elston, South Kildare, South Kedzie, South Union, Cornelia, North Mansfield, Magnolia, Webster and Wilton Aves., to G. Kehl Sons, 1225 North Maplewood Ave.; portions Berlin St., North Albany, Christiana, Crawford, Edgewater, Glenlake, Lakewood, North Shore and Ridge Aves., to C. Schroeder, Jr., 3440 Jensen Ave.; portions West 111th and 108th Sts., Baltimore Ave., to H. Johnson & Co.; portions Otto, North Robey and School Sts., North Hermitage, Kenmore Layola, Glenwood and Sheffield Aves., to C. Burkett & Co. Noted Sept. 22.

Wisconsin—State Hy. Comn., Div. Office 8, 1st Natl. Bank Bldg., Superior, concrete paving, etc. 70,716 sq.yd. Federal Aid Project 440-A, Wood Co., to Vogt-Mengel Co., Wisconsin Rapids $155,168, and 89,259 sq.yd. Federal Aid Project 449-C, Marathon Co., to R. R. Birdsall & Sons Co., Racine $255,041; also graveling, etc. 2,205 cu.yd. Federal Aid Project 405-D, Ashland Co., to V. Nelson, Superior $35,722. Grand total $445,931.

Ia., Cedar Rapids—Linn Co., to Moore & Eldridge, Clemons, improving roads, 8,950 cu.yd. gravel at $1.20 per cu.yd., 9,100 cu.yd. $1.48, and 600 cu.yd. $1.75.

Ia., Earlham—Grading, curbing, 6 in. concrete paving, etc. 8,700 sq.yd. various streets, to Bemis & Schlick, 1345 East 6th St., Des Moines.

Ia., Iowa City—Grading, curbing, guttering and rein.-con. paving 24,400 sq.yd. various streets, to William Harrabin Constr. Co., Iowa City, $74,375.

Ia., Manilla — For 6 in. (Johnsonite method) rein.-con. paving, etc. 18,000 yd. various streets, to Booth & Olson, 318 Exch. Bldg., Sioux City, $47,914.

Kan., Great Bend—Barton Co., sand clay surfacing and constructing seven 4 x 3 ft. multiple box span bridge on 13.555 mi. US 50 N, Project 383-A, to O. Anderson, Garden City, $64,769 and $1,867 respectively. Noted Sept. 29.

Kan., Pratt—Pratt Co., grading 8.938 mi. and constructing 2 bridges on Project 91, Sect. B, to Somers Constr. Co., Newton, $46,546 and $6,614 respectively. Engrs. est. $48,147 and $7,148 respectively.

Kan., Wellington—Sumner Co., grading and sand clay surfacing 25,443 cu.yd. Project 66-A, Federal Aid Project 386-A, also 6 bridges on US. Rd. 166, to E. L. Cavenah, Marion, $141,612.

Neb., Hastings — To Mid-State Constr. Co., Hastings, improving streets in Dsits. 137, 139, 140, 141 and 142, 15,909 sq.yd. concrete at $1.84 per sq.yd., 6,266 ft. curbing $0.80, 118 ft. headers $0.50, and 3,300 cu.yd. excav. $0.45.

Montana — State Hy. Comn., Helena **(F.A.P. means Federal Aid Project)**, graveling, etc. 7,023 cu.yd. F.A.P. 58 A and B, Unit 2, Flathead Co., to W. V. Wellman, Helena $22,173, and 8,804 cu.yd. F.A.P. 231-A and B, 206 and 237-A, Missoula Co., to B. Helean, 606 West Pine St., Missoula $28,762; constructing 152 ft. and 57 ft. pile trestle bridges on F.A.P. 157-B, Unit 2, Garfield Co., to McLaughlin & O'Neil, Livingston $7,397. Grand total $60,332.

Missouri—State Hy. Comn., Jefferson City, to M. E. Gillioz, Monett, 24 ft. grading 1.245 mi. Cherryville-Sligo Rd., Crawford Co. $25,382; to Gaines Bros. Co., Fairland, Okla., 30 ft. grading 4.347 mi. Route 52, Sect. 41 $16,419, 3.585 mi. Sect. 42, same road $12,185, and 2.406 mi. Sect. 43 same road $12,756 all Morgan Co.; to J. A. Kern Co., Ozark, 18 ft. graveling, etc. 4.84 mi. Hannibal-St.Joseph Rd., Linn Co., $10,507; to T. F. Marbut, Liberty, grading, 9 and 18 ft. concrete paving etc. 2.055 mi. Gallatin-Jamesport Rd., Davies Co., $45,294; to Koss Constr. Co., Des Moines, Ia., grading and 18 ft. concrete paving etc. 2.767 mi. Route 66, Sect. 150-C $40,946, 2.939 mi. Sect. 150-D $58,212, and 3.866 mi. Sect. 150-E, same road $57,603, all Greene Co.; also to W. P. McGeorge Co., Cape Girardeau, 1.117 mi. Route 61, Sect. 68, St. Louis Co. $38,370. Grand total $278,224.

Mo., Neosho—City Clerk, 7 in. concrete paving 13,000 sq.yd. various streets, to Taylor & Allison, Chanute, Kan., $35,925. Noted Sept. 29.

Arkansas—State Hy. Dept., Little Rock, to Lahar Bros., Springfield, Mo., grading 1 mi. Highway 39, Sect. 2 $6,047 and 6.5 mi. Highway 90, Sect. 1 $44,670, both Clay Co., also 5.3 mi. Highway 39, Sect. 1, Hot Springs Co. $43,520, to S. C. Taylor, Birmingham, Ala.; 0.3 mi. Highway 67, Sect. 22 $4,896, to R. J. Lynch, 320 West Markham St., Little Rock, 5 mi. Highway 35, Sect. 5, Cleveland Co. $27,826, to James Spencer & Son Constr. Co., Mulvane, Kan., 2 mi. Highway 70, Sect. 8 $123,327, to M. E. Gillioz, Monett, Mo., 12.5 mi. Highway 6, Sect. 6 $128,402 to P. O. Gwin, Sheridan, 17 mi. Highway 9, Sect. 4, Hot Springs Co. $64,294, to Cook & Ransom, Ottawa, Kan. 12 mi. Highway 22, Sects. 3 and 4, Logan Co. $72,734, to Griffin & Havel, Gurdon, 8 mi. Highway 24, Sect. 5 Nevada Co. $24,181, to Winstead & Co., Siloam Springs, 8 mi. Highway 22, Sect. 1 Sebastain Co. $49,587, and to Philpot Constr. Co., 116 Chestnut St., Pine Bluff, 3.7 mi. Highway 115, Sect. 1, Union Co. $100,205, to W. L. Davis, Kansas City, Mo., graveling 4.5 mi. Highway 64, Sect. 8 $12,843, to J. P. McNulty, Pine Bluff, 6.3 mi. Highway 31, Sect. 1 $13,441, and to P. W. Fletcher, Hannibal, Mo., 6.4 mi. Highway 19, Sect. 3, Nevada Co. $27,088, to P. F. Connelly, Paving Co., Home Insurance Bldg., Little Rock, bituminous surfacing 5.5 mi. Highway 70, Sects. 14 and 15, Lonoke Co., $21,719, to C. H. Atkinson Paving Co., Chillicoth, Mo., 154 ft. timber bridge on Highway 4, Sect. 15, Drew Co. $4,736, and 273 ft. timber bridge on Highway 2, Sect. 7, Union Co. $8,404, to F. L. Scull, Conway, 132 ft. steel and concrete bridge, Highway 25, Sect. 4, Independence Co. $13,168, to Lakeside Bridge & Steel Co., North Milwaukee, Wis., 2,045 ft. steel and concrete bridge, Federal Aid Project 244-A, Pope and Yell Counties $534,137, and to Pioneer Constr. Co., 270 Glover Bldg., Kansas City, Mo., 225 ft. steel and concrete bridge, Highway 63, Sect. 2, Sharp Co. $21,728. Grand total $1,346,953.

Ark., Helena—Curbing, guttering and 2 in Colrock on 5 in. concrete base, paving 15,264 sq.yd. Street Impvt. Dist. 18, to Hogan Constr. Co., Paving Exch. Bldg., Memphis, Tenn. Engrs. est. $65,000.

Tex., Houston—Paving Navigation Blvd. and Wayside Dr., to San Jacinto Constr. Co., 1st Natl. Bank Bldg., $244,965; also curbing, guttering and paving Ave. N, to A. M. Arnold & Co., 112 Buffalo St., $34,393.

Tex., Houston—Harris Co., brick paving approximately 27,000 sq.yd. Clinton Dr. from Kress St. to point 125 ft. east of Harris St., to Gulf Bitulithic Co., 2820 Polk Ave., $100,333.

Okla., Altus—Grading, curbing and sheet asphalt paving 4,700 sq.yd. East Line Oak St., to Highway Constr. Co., Kennedy Bldg., Tulsa, $27,114. Engrs. est. $27,600.

Washington—State Hy. Comn., Olympia, grading 152,000 cu.yd. State Rd. 5 from American River Hotel to Hells Crossing, Yakima Co., to Myers & Goulter, Easton, $138,988; and 176,000 cu.yd. same road from Park entrance near Chinook Pass to Crystal Creek section, to F. Fox, 2524 MacDougal St., Everett, $147,127. Noted Sept. 22.

California—State Hy. Dept., Sacramento, grading, etc. 2.3 mi. roadway between Myers Creek to west of Coyote Wells, Imperial Co., to Ward & Gabler, 240 South Catalina St., Los Angeles, $48,870; also grading and concrete paving, etc. 1.9 mi. roadway between Salinas and Santa Rita, Monterey Co., to C. W. Wimmer, Santa Barbara, $55,496. Noted Oct. 20.

Calif., Compton — M. Hecock, city clk., grading and 5 in. concrete paving, etc. 118,000 sq.ft. streets in Tract 9910, to P. P. Janich, Pacific Southwest Trust & Savings Bldg., Long Beach, $39,455. Noted Sept. 29.

Calif., Fullerton—Curbing and 5 in. asphaltic concrete paving, etc., East Commonwealth Ave., etc., to S. Finley, 204 East 4th St., Santa Ana, $65,602.

Calif., Los Angeles—For 8 in. concrete paving, etc. 771,056 sq.ft. Angeles Mesa Dr., etc., to G. H. Oswald, 366 East 58th St., $280,952.

Calif., Los Angeles—Grading and paving, etc. portion Sherman Way, 40,799 tons asphaltic concrete, also 6 in. concrete paving 272,505 sq.ft. and 7 in. concrete paving, etc. 62,242 sq.ft. portion Woodrow Wilson Dr., to Curtis Paving Co., 2440 East 26th St., $208,165 and $241,595 respectively.

Calif., Los Angeles—Los Angeles Co., grading, curbing, guttering, walks and disintegrated rock with oil paving, etc. 279,857 sq.ft. Atlantic Ave., A and I-112, to C. Raasch, 303 North Commercial St., Inglewood, $56,195; also grading and 7- to 9-in. concrete paving, etc. 413,635 sq.ft. Main St., Impvt. 321, to G. H. Oswald, 366 East 58th St., $120,976.

Calif., Los Angeles — Los Angeles Co., grading and paving, etc. Colorado St., to J. E. Haddock, 357 North Chester Ave., Pasadena, $31,305; also Riverside-Redondo Blvd. between Compton City limits and Arlington St., to Curtis Paving Co., 2440 East 26th St., $224,395. Noted Oct. 20.

Buildings—Commercial

Proposed Work

Vt., Montpelier — HOTEL — Owner, c/o F. C. Teich, archt., 212 Rathael Bldg., New Britain, Conn., having plans prepared brick and steel hotel, here. $400,000.

Mass., Boston—CLUBHOUSE—Trustees Durant, Inc., 336 Huntington Ave., plans 14 story, brick and steel, Huntington Ave. $2,000,000.

Mass., Cambridge (br. Boston) — REGISTRY of DEEDS—Comrs. Middlesex Co., A. Cutting, chn., Court House, East Cambridge, having sketches made by C. R. Greco, 11 Beacon St., Boston, 3 story and basement, brick and stone, plain foundation. $240,000.

Mass., Cambridge (br. Boston)—STORE and OFFICE—Estate of J. H. Corcoran, 587 Massachusetts Ave., having plans prepared by Blackwell, Clapp & Whittemore, 31 West St., Boston, altering and constructing 2 story and basement, brick and stone addition plain foundation, Massachusetts Ave. and Central Sq. $150,000.

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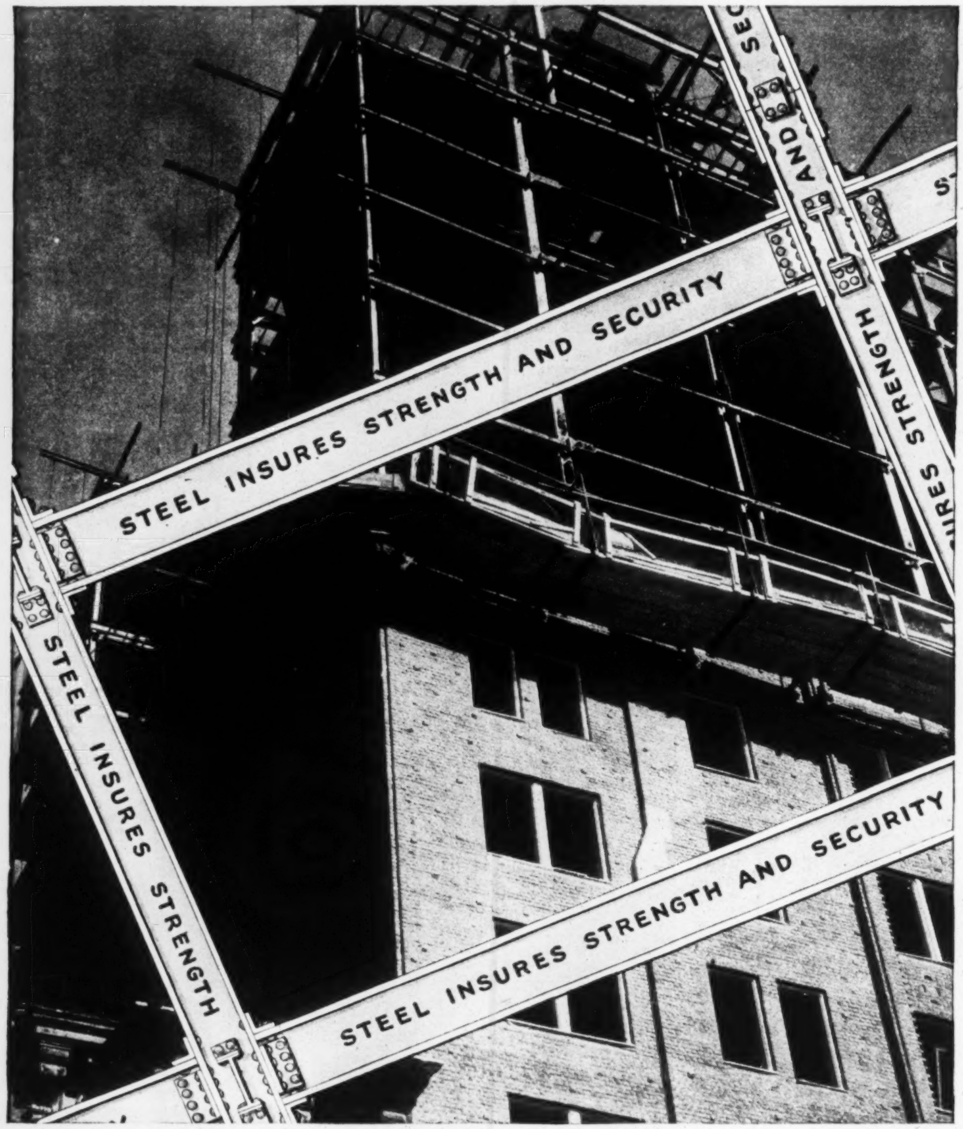
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Buildings—Commercial (Continued)

Mass., Roxbury (Boston P. O.)—HOSPITAL—Robert Bent Brigham Hospital, 125 Parker Hill Ave., having plans prepared by Coolidge, Shepley, Bulfinch & Abbott, Ames Bldg., Boston, hospital addition. $150,000 or more.

N. Y., Binghamton — HOSPITAL — Lourdee Hospital, 169 Riverside Dr., having preliimnary plans prepared by W. H. Whitlock, Security Bldg., hospital addition, 169 Riverside Dr. $200,000.

N. Y., Helmuth—FARM DORMITORY—Dept. Mental Hygiene, Capitol, Albany, takes bids probably in November, farm dormitory at Gowanda State Hospital, here. S. W. Jones, Capitol, Albany, state archt. Noted June 23.

N. Y., Kingston—CITY HALL—Common Council having plans prepared by Teller, Betz & Lowe, 284 Wall St., and takes bids about Nov. 14, remodeling city hall. $250,000.

N. Y., Marcy—HOSPITAL—Dept. Mental Hygiene, Albany, takes bids probably in December, additions to Utica State Hospital, Marcy Div., here. S. W. Jones, Capitol, Albany, state archt.

N. Y., New York—APARTMENT—Sobie Realty Corp., c/o L. Pisciotta, archt., 573 East Tremont Ave., having plans prepared 6 story and basement, 100 x 100 ft., brick, plain foundation, 203 St. near Valentine Ave. $175,000.

N. Y., New York—APARTMENT—H. C. Forbes, 66 Bway., having plans prepared by E. Litchfield, 578 Madison Ave., 11 story and basement, brick and steel, plain foundation, 95th St. and Lexington Ave. $400,000.

N. Y., New York — CLUB — Downtown Athletic Club, 149 Bway., takes bids in December, 20 story and basement, 80 x 180 ft., brick and steel, plain foundation, incl. bowling alleys, indoor golf course, swimming pool, gymnasium, etc., West Morris St. and Battery Pl. $2,225,000. Starrett & Van Vleck, 393 7th Ave., archts. J. G. White & Co., 43 Exchange Pl., engr.

N. Y., New York — LOFT — Clemons Realty Co., c/o J. H. Kneebel, archt., 570 7th Ave., having plans prepared 25 story and basement, 75 x 100 ft., brick and steel, plain foundation, 347 7th Ave. $850,000. C. Mayer, 31 Union Sq., engr.

N. Y., New York — RESTAURANT and COMMERCIAL — Childs Co., 200 5th Ave., receiving estimates altering or rebuilding 5 story and basement restaurant and commercial building, 285 Bway., and 3 story, at 1546 Bway. $150,000 each. W. Van Alen, 331 Madison Ave., archt.

N. Y., New York—WAREHOUSE—Lord & Taylor, 5th Ave. and 38th St., having plans prepared by Starret & Van Vleck, 393 7th Ave., 10 story and basement, rein.-con., 1st Ave. and 38th St. $1,500,000.

N. Y., Rochester — HOSPITAL — Dept. Mental Hygiene, Albany, takes bids in November, new accommodations to replace Monroe Group at Rochester State Hospital, here. S. W. Jones, Capitol, Albany, state archt. Noted Mar. 31.

N. J., Bayonne—APARTMENT—Irving Constr. Co., 249 Bway., having plans prepared by M. Kraut, 14 Journal Sq., Jersey City, 5 story and basement, brick and steel, plain foundation, 81-85 33rd St. $150,000.

N. J., Bloomfield — APARTMENT — Rosenburg Building Corp., c/o E. F. Hauser, archt., 11 Clinton St., Newark, having plans prepared 5 story and basement, 65 x 150 ft., brick and steel, plain foundation, Glenwood and Evergreen Aves. $170,000.

N. J., Caldwell — APARTMENT and STORE—W. J. Fitzsimmons, archt., 626 Central Ave., East Orange, revising plans and soon takes new bids (selected list of bidders) general contract 4 story and basement, 80 x 110 ft., brick and steel, plain foundation, Roseland and Bloomfield Aves., here, for Civic Center Investment Co., 24 Williams St., Newark. $150,000. Former bids rejected. Noted Oct. 6.

N. J., Cranford—APARTMENT—N. De Fabio, 334 North Ave. E., having plans prepared by E. Gerber, 786 Broad St., Newark, 3 story and basement, 75 x 150 ft., brick and steel, plain foundation, Riverside Dr. and Casino Ave. $150,000.

N. J., Elizabeth — APARTMENT — S. Duchen, West 15th St., Linden, having revised plans prepared by R. Kruger, 60 Branford Pl., Newark, 5 story and basement, brick and steel, plain foundation, 126 DeHart Pl., here. $200,000. Noted Aug. 25.

N. J., Haledon (mail Paterson)—HOSPITAL—Bd. Freeholders Passaic Co., Court House, Paterson, having sketches made by F. W. Wentworth, 140 Market St., Paterson, two 1 and 2 story and basement, brick and steel, semi-ambulant buildings, plain foundation, here. $150,000.

N. J., Highlands — THEATRE and DANCE HALL—G. Johnson having plans prepared by A. F. Amodio, 45 Branford Pl., Newark, 2 story and basement, brick and steel, plain foundation, Bay Ave. $150,000.

N. J., Montclair—APARTMENT—R. H. Sellers, 77 Grove St., had revised plans prepared by N. Harris, 20 Branford Pl., Newark, 3 story and basement, 100 x 175 ft., brick and steel, plain foundation, 77 Grove St. $325,000. Noted Sept. 22.

N. J., Newark — APARTMENT — F. Francis, Inc., c/o R. Botelli, archt., 45 Branford Pl., having plans prepared 5 story and basement, brick and steel, plain foundation, 521-27 Elizabeth Ave. $200,000.

N. J., Newark—GARAGE—G. Bell, c/o R. B. Stoutenburgh, 60 Park Pl., plans 8 story, 200 x 250 ft., rein.-con., brick and steel, plain foundation, Warren Pl., Washington and Warren Sts. $1,000,000. Engineer and architect's names withheld.

N. J., Newark—INDUSTRIAL—Salvation Army, 237 Washington St., having plans prepared by Myers, Bigelow & Shanley, 24 Washington St., 5 story and basement, brick and steel, Pennington St. $150,000.

N. J., Summit — APARTMENT — Stuyvesant Constr. Co., 972 Broad St., Newark, had plans prepared by Kasoff & Flatt. 164 Market St., Newark, 3 story and basement, 140 x 160 ft., brick and steel, plain foundation, 15 Norwood Ave. $200,000.

Va., New Market—HOTEL, CLUB, etc.—Shenandoah Valley Estates Co., plans 1 to 4 story, 200 room hotel, clubhouse addition, golf course, riding stables, etc., near here. $1,000,000. Amer. Industrial Eng. Co., 90 West St., New York City, engrs.

N. C., Charlotte — THEATRE — Paramount-Famous Lasky Corp., Paramount Bldg., New York City, plans theatre, 2,500 seating capacity, here. $1,000,000. Engineer and architect not selected.

Ga., Atlanta—CITY HALL—City plans city hall. $1,00,000. Engineer and architect not selected.

La., Hammond — THEATRE — W. T. Nolan, archt., Canal Bank Bldg., New Orleans, soon lets contract 2 story and basement, rein.-con., brick and steel, plain foundation, here, for A. Higginbotham & associates.

Miss., Meridian—THEATRE—E. Weil, Inc., archts., Whitney Bldg., New Orleans, La., soon lets contract remodeling Hamasa Temple into theatre, here, for Saenger Theatres, Inc., New Orleans, La. $200,000.

O., Cleveland — BANK and OFFICE — Pearl St. Savings & Loan Co., H. F. Humel, pres., West 25th St. and Clark Ave., having plans prepared by Walker & Weeks, 2341 Carnegie Ave., brick, steel and concrete, West 25th St. and Clark Ave. $300,000.

O., Lakewood (br. Cleveland) — COMMERCIAL and APARTMENT — Detroit-Park Row Co., c/o A. T. Schupp, 1269 Mathews Ave., had plans prepared by O. N. Chamberlin, Carnegie Hall Bldg., Cleveland, 3 story and basement, 58 x 139 ft., brick and steel, Detroit and Park Row Aves. $150,000.

Mich., Detroit — APARTMENT — W. A. Montgomery, 2006 Penobscot Bldg., had plans prepared by H. J. Haughey, 112 Madison Ave., 8 story and basement, rein.-con., brick, steel and stone, plain foundation, 3rd Ave.

Mich., South Haven — HOTEL and BATH HOUSE—Edgemere Mineral Bath & Hotel Co., 5441 Winthrop Ave., Chicago, Ill., having plans prepared by Leichenko & Esser, 38 South Dearborn St., Chicago, Ill., 4 story and basement, rein.-con., brick and steel, plain foundation, here. $350,000.

Ill., Chicago—APARTMENT, OFFICE and STORE—Michigan-Chestnut Building Corp., c/o Frankenstein & Co., 110 South Dearborn St., having plans prepared by Holabird & Roche, 104 South Michigan Ave., 6 story and basement, 100 x 200 ft., rein.-con., brick and stone, Michigan Ave. and Chestnut St.

Ill., Chicago — AUDITORIUM — Hungarium Natl. Sick Benevolent Society, c/o C. W. Lampe & Co., archts., 155 North Clark St., having sketches made 3 story and basement, 1,000 seating capacity, brick and terra cotta, 852 Altzeld St. $300,000.

Ill., Chicago—GARAGE and STORE—S. J. Richman, 11 South La Salle St., plans 6 story and basement, 130 x 230 ft., rein.-con., 5961-6017 Bway. $750,000. Engineer and architect selected soon.

Ill., Chicago — STORE and OFFICE — Tebbetts & Garland, 16 North Michigan Ave., having plans prepared by Schmidt, Garden & Erickson, 104 South Michigan Ave., 12 story and basement, 110 x 180 ft., 16-30 West Washington St. $1,000,000. Noted Aug. 18.

Ill., Oak Park — APARTMENT — N. B. Schreiber & Co., 30 North La Salle St., Chicago, soon lets contract 3 story and basement, 141 x 150 ft., brick and stone, Washington Blvd. $350,000. Alexander & Brandt, 64 East Jackson Blvd., Chicago, archts.

Ill., Oak Park—APARTMENT—Meyer & Cook, archts., 820 Tower Court, Chicago, prepared plans and soon take bids 3 story and basement, brick, on 50 x 145 ft. site, Ontario St. near Kenilworth Ave. Owner's name withheld.

Ia., Waterloo—HOTEL—Tangney & McGinn, c/o Hotel Russell-Lamson, having plans prepared by H. L. Stevens Co., 30 North Michigan Blvd., Chicago, Ill., 9 story, mezzanine and basement, 60 x 116 ft., rein.-con., brick and stone, plain foundation. $600,000.

Mo., Columbia—THEATRE and OFFICE—Dozier Stone et al, soon take bids 7 story and basement, 142 x 160 ft., rein.-con., brick, steel and terra cotta, 9th and Locust Sts. $250,000. Boller Bros., 114 West 10th St., Kansas City, archts. Noted July 21.

Mo., St. Louis—APARTMENT—Syndicate, c/o E. Wagner, 18 North 8th St., having preliminary plans prepared by P. J. Bradshaw, International Life Bldg., 8 or more story and basement, rein.-con., brick, stone and terra cotta, Skinker Rd. $500,000 up.

Mo., St. Louis — HOTEL — Lafayette Realty Co., c/o P. J. Bradshaw, archt., International Life Bldg., soon takes bids 22 story and basement, 70 x 100 ft., rein.-con., steel, stone and terra cotta, 12th Blvd. and Pine St. $3,000,000. W. J. Knight, Wainwright Bldg., engrs. Noted Oct. 13.

Tex., Galveston—HOTEL—W. L. Moody, Jr., and associates, having preliminary plans prepared approximately 10 story and basement, rein.-con., brick and stone, Tremont and Boulevard Sts. $300,000.

Okla., Oklahoma City—CLUB HOUSE—Oklahoma State Athletic Club, c/o M. E. O'Neil, secy., 607-609 Petroleum Bldg., having plans prepared 10 story and basement, 100 x 140 ft., rein.-con. and brick, plain foundation. $750,000. Engineer and architect not selected.

Okla., Oklahoma City—THEATRE—L. M. Ranch having preliminary plans prepared 2 story, rein.-con. and brick theatre, plain foundation, 18th St. and Classen Blvd. $150,000. Engineer and architect not selected.

Okla., Tulsa — APARTMENT — R. R. Park Realty Co. having plans prepared by N. E. Peters, Orear-Leslie Bldg., Kansas City, Mo., 9 story and basement, 75 x 140 ft., rein.-con. and brick, plain foundation. $500,000.

Okla., Tulsa—HOTEL—A. J. Mamel, 204 West 4th St., having plans prepared by Cross & Duggan, 24 Nebraska Bldg., 8 story, 140 x 150 ft., rein.-con., terra cotta and steel, plain foundation. $750,000.

Colo., Pueblo—STORE and OFFICE—R. W. Jewel, Central Blk., and P. H. Philbin, Congress Hotel, having plans prepared by E. C. Groves, 1982 Bway., Denver, 8 story and basement, rein.-con., brick and steel, Main St. $1,000,000.

Nev., Reno—APARTMENT—A. H. Larsen, archt., 447 Sutter St., San Francisco, Calif., preparing plans 3 story and basement, timber and stucco, Court and Flint Sts. $150,000. Owner's name withheld.

Calif., La Jolla—HOTEL—W. G. Clark, et al. Insurance Exch. Bldg., Los Angeles, plans tourist hotel. To exceed $1,000,000.

Calif., Los Angeles—OFFICE—Chamber of Mines & Oil, c/o Walker & Eisen, archts., Western Pacific Bldg., having preliminary plans prepared 13 story and basement, 80 x 150 ft., rein.-con. and steel, 10th and Olive Sts.

Calif., Oakland—HOTEL—E. E. Young, archt., 2002 California St., San Francisco, preparing plans 5 story and basement, rein.-con., 16th and Grove Sts. $165,000. Owner's name withheld.

Calif., Piedmont—MAUSOLEUM—Weeks & Day, archts., 405 Montgomery St., San Francisco, take bids about Oct. 31, (1st unit) concrete and marble, in Mt. View Cemetery, for Mt. View Cemetery Assn. $200,000. Total $1,000,000.

Calif., Santa Monica — BANK and OFFICE—Bank of Italy plans approximately 8 story, 50 x 150 ft., rein.-con.,

Buildings—Commercial (Continued)

3rd St. and Santa Monica Blvd. To exceed $150,000. Engineer and architect not selected.

Calif., Santa Monica—BANK and OFFICE—Bay Cities Guaranty & Loan Assn., 221 3rd St., having preliminary plans prepared by M. E. Durfee, Commercial Exch. Bldg., Los Angeles, 8 story and basement, 50 x 150 ft., steel and brick, 3rd St. and Santa Monica Blvd.

Que., Temiskaming — OFFICE and LABORATORY — Canadian International Paper Co., 1153 Notre Dame St., Montreal, had plans prepared by W. L. Somerville, 2 Bloor St. W., Toronto, Ont., 3 story and basement, 42 x 143 ft., brick and steel, plain foundation, here. $150,000.

Ont., North Bay—HOTEL—P. Bardesonna & L. Mosealee, Timmins, plan 110 room hotel, Fraser St., here. $250,000. Engineer and architect not selected.

Ont., Toronto—CLUB—University Club, 82 King St. W., having plans prepared by Marani, Lawson & Paisley, 219 Bay St., rein.-con., brick and steel, plain foundation. $200,000.

Ont., Toronto—GARAGE—Toronto Motor Car Co., 120 Adelaide St. E., having plans prepared 2 or 3 story and basement, 50 x 120 ft., concrete, brick, steel and stone, Yonge St. and Orchard View Blvd. $150,000. Engineer and architect not selected.

South America, Colombia, Bogota—HOSPITAL—D. V. Pena had plans prepared by Schmidt, Garden & Erickson, 104 South Michigan Ave., Chicago, Ill., U. S. A., hospital. $500,000.

Bids Desired

Mass., Brighton (Boston P. O.)—THEATRE and STORE — See "Contracts Awarded."

Mass., Lynn—APARTMENT—See "Contracts Awarded."

Mass., Medford (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Milton (br. Boston)—THEATRE and STORE—See "Contracts Awarded."

Conn., Hartford — APARTMENT — See "Contracts Awarded."

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York—GARAGE and RIDING ACADEMY — Dec. 1, by M. W. Whinston, archt., 116 West 39th St., 5 story and baseemnt, 50 x 100 ft., steel and stone, plain foundation, 45 West 66th St., for Manhattan Athletic Club, c/o M. H. Osborne, 92 Pine St. $200,000.

N. J., East Orange—APARTMENT—See "Contracts Awarded."

N. J., Hackensack—APARTMENT—See "Contracts Awarded."

N. J., Jersey City—APARTMENT—See "Contracts Awarded."

N. J., Leonia — APARTMENT — Gerden Realty Co., Broad Ave., taking bids 5 story and basement, brick and steel, plain foundation, Broad Ave. and Christie St. $160,000. Lucht & Anderson, 432 Palisade Ave., Cliffside Park, archts.

N. J., Long Branch — APARTMENT — See "Contracts Awarded."

N. J., Newark—HOSPITAL—Nov. 1, by Sutton, Sutton & Calkins, archts., 402 Broad St. general contract 6 story and basement, 70 x 130 ft., rein.-con., brick and steel, plain foundation, 9th Ave. and 9th St., for Presbyterian Hospital, 25 South 9th St. $500,000. Noted Oct. 20.

N. J., Orange — APARTMENT — See "Contracts Awarded."

N. J., Passaic — APARTMENT — See "Contracts Awarded."

Pa., Lansdowne—APARTMENT—A. C. Bisher, archt., 3044 West Lehigh St., Phila., taking bids 3 story and basement, 80 x 120 ft. with two 42 x 90 ft. wings, brick and steel, plain foundation, here. $275,000. Owner's name withheld.

Pa., Phila.—APARTMENT—Nov. 10, by M. A. Bernhardt, archt., 119 South 18th St., 4 story and basement, 85 x 161 ft., brick and steel, plain foundation, 13th St. and 68th Ave., for H. Pearl, 625 South 63rd St. $200,000.

Md., Baltimore—SALES and SERVICE—Nov .1, by Owens & Sisco, archts., Continental Bldg., 1 story and basement, irregular shaped, brick and steel, 29th St. and Remington Ave., for Wilson-Nash Motors Co., 29th St. and Remington Ave.

Md., Henryton—ADMINISTRATION—Oct. 29, by Buckler & Fenhagen, archts., 325 North Charles St., Baltimore, 3 story and basement, irregular shaped concrete, brick and steel, here, for Maryland Tuberculosis Hospital, H. Massart, 328 North Charles St., Baltimore, engr.

Md., Mt. Wilson—HOSPITAL—Oct. 29, by Buckler & Fenhagen, archts., 325 North Charles St., Baltimore, 2 story and basement, irregular shaped concrete, brick, steel and stone, here, for State Sanitarium. H. Massart, 328 North Charles St., Baltimore, engr.

Tenn., Knoxville—THEATRE—Nov. 15, by Graven & Mayger, archts., 180 North Michigan Ave., Chicago, Ill., 3 story, brick and steel, 2,000 seating capacity, here, for Tennessee Enterprises, Inc. $600,000. Noted Aug. 25.

O., Marion—THEATRE—Oct. 31, by J. Eberson, archt., 212 East Superior Ave., Chicago, Ill., 1 story, 120 x 153 ft., brick, steel and concrete, here, for Young Amusement Co.

Mich., South Haven—HOTEL and BATH HOUSE—Leichenko & Esser, archts., 38 South Dearborn St., Chicago, Ill., taking bids 3 story, basement, and 1 story tower, 146 x 154 ft., rein.-con. and brick, here, for I. S. Cohen. $350,000. Noted Aug. 18.

Ill., Chicago — APARTMENT — Wolf, Harper, Sexton & Treaux, archts., 431 North Michigan Ave., taking bids 7 story and basement, 50 x 160 ft., rein.-con., brick and stone, 6530 Kenwood Ave., for Beaconsfield Building Corp., c/o architects. $500,000.

Ill., Rock Island — APARTMENT and GARAGE—S. Weisman, 2426 West 19th St., taking bids 3 story and basement, 157 x 170 ft. apartment, and 50 x 100 ft. garage, pressed brick and stone, 17th St. and 18th Ave. $300,000. E. J. Patelski, 179 North Wells St., Chicago, archt.

Wis., Milwaukee — APARTMENT—Rosman & Wierdsma, archts., 490 Bway., taking bids 8 story and basement, 120 x 125 ft., brick and steel, plain foundation, 11th St., for Forum Investment Co., c/o architects.

Wis., Milwaukee — THEATRE and STORE — Peacock & Frank, archts., 445 Milwaukee St., taking bids 2 story, 95 x 140 ft., brick and steel, plain foundation, 3rd St., for Avalon Co., c/o architects.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles — APARTMENT — R. M. Bates, archt., 660 South Vermont Ave., taking bids 5 story and basement, 115 x 132 ft., rein.-con., Mariposa Ave., for Orange Co. Investment Co., Pershing Sq. Bldg., $275,000. Noted June 23.

Contracts Awarded

Mass., Brighton (Boston P. O.)—THEATRE and STORE—Fitzgerald Corp. H. I. Fitzgerald, 11 General Rd., will build 1 and 2 story and basement, 90 x 250 ft., rein.-con., brick and steel, plain foundation, 326 Washington St. $150,000. Work will be done by separate contracts. J. E. Cahill, 18 Wade St., archt.

Mass., Cambridge (Boston P. O.) — HOME, POWER HOUSE and GARAGE—Bd. Pub. Welfare, general contract 3 story and basement, 140 x 400 ft., brick and stone, plain foundation, Concord Ave., to Askin & Sullivan, 580 Massachusetts Ave., $351,313; heating and ventilating, to J. S. Cassidy, 133 Austin St., $63,750; plumbing, to J. H. Larkin, 206 Corey Rd., Brookline, $26,000; and electrical work, to Lord Electric Co., 112 Water St., Boston, $21,800. Grand total $462,863.

Mass., Lynn—APARTMENT—T. Palmer, c/o B. E. Porter, archt., 1107 Tremont Bldg., Boston, will build 3 story, 60 x 200 ft., brick, steel and stone, Beach Rd., by day labor. $175,000.

Mass., Medford (br. Boston)—APARTMENT—F. T. Bustin, 52 7th St., will build 3 story and basement, 60 x 110 ft., brick and stone, plain foundation, 8th and Middlesex Sts., by day labor. $160,000. O. A. Watkins, Rock Glen Rd., archt.

Mass., Milton (br. Boston)—THEATRE and STORE—H. W. Bassett, 641 Adams St., East Milton, will build 1 and two story and basement, brick, steel and stone, plain foundation, East Milton Sq., here. $150,000. Funk & Wilcox, 26 Pemberton Sq., Boston, archts. Work will be done by separate contracts.

Mass., Quincy (br. Boston)—APARTMENT—Stein & Applebaum, 35 Plymouth St., will build 3 story and basement, brick and stone, plain foundation, Hancock and Dimock Sts., by day labor. $150,000. Private plans. Noted July 14.

Conn., Bridgeport—HOTEL—Amer. Hotel Corp., 25 West 45th St., New York City, 14 story hotel, here, to Wark Co., 1600 Walnut St., Phila., Pa. Archts. est. $700,000.

Conn., Hartford — APARTMENT — S. I. Ward & Co., will build 3 story, 50 x 170 ft. brick and steel, Evergreen St. $150,000.

N. Y., New York—APARTMENT—Bing & Bing, 199 West 40th St., will build 15 story and basement, brick, steel and stone, plain foundation, 94th St. and 5th Ave. $500,000. Work will be done by separate contracts. E. Roth, 1440 Bway., archt. Noted Aug. 18.

N. Y., New York — APARTMENT—S. Horowitz, 1800 Davidson Ave., 6 story and basement, brick and steel, Stratford Ave. and 172nd St., to G. Miller, 1482 Bway. Archts. est. $500,000.

N. Y., New York — APARTMENTS—Laneson Realty Corp., 15 story and basement, 90 x 102 ft. apartment, 153 East 72nd St., to Bing & Bing, 119 West 40th St. Archts. est. $700,000.

N. Y., New York — ARMORY — Armory Bd., Municipal Bldg., general contract altering armory 107th Infantry, to Edgewater Constr. Co., 103 East 125th St., $157,900. Noted Apr. 14.

N. Y., New York — CLUBHOUSE and HOTEL—J. M. Howells, archt., 154 East 46th St., 25 story, 80 x 108 ft., brick and steel, plain foundation, Mitchell Pl. and 1st Ave., to Hegeman-Harris Co., Inc., 360 Madison Ave., for Pan Hellenic House Assn., Inc. $1,250,000. Noted Sept. 15.

N. Y., Rochester—THEATRE and COMMERCIAL—Graven & Mayger, archts., 180 North Michigan Ave., Chicago, Ill., masonry contract 3 story and basement theatre and commercial building, here, to J B. Pike & Co., 1 Circle St., for Bonarge Corp., New York City. Archts. est. $1,500,000. Noted Sept. 15.

N. Y., Syracuse — HOSPITAL — J. R. Pope, archt., 542 5th Ave., New York City, general contract rein.-con., brick and steel, plain foundation, University Hill, here, to A. G. Stephens, 145 State St., Springfield, Mass., for Syracuse Memorial Hospital. $1,600,000. Noted June 30.

N. J., East Orange—APARTMENT and GARAGE—Z. & K. Holding Co., 710 Kenney Bldg., Newark, will build 4 story and basement, 85 x 145 ft. apartment and 1 story, 18 x 100 ft. garage, brick and steel, plain foundations, 115 Halsted St., here. $160,000. Work will be done by separate contracts. Noted Oct. 6.

N. J., East Orange—SHOW ROOM and GARAGE—Baldwin Constr. Co., 614 Central Ave., general contract 2 story, 120 x 200 ft., brick and steel, plain foundation, Railroad Plaza, to Fatzler Co., 676 South 16th St., Newark. Archts. est. $150,000. Noted Oct. 6.

N. J., Hackensack—APARTMENT—G. and D. Realty Co., 77 Hedden Terrace, Newark, will build 4 story and basement, 80 x 100 ft., brick and steel, plain foundation, Anderson St. and Pangeborn Pl., here. $150,000. Work will be done by separate contracts. Warren & Warren, 31 Clinton St., Newark, archts.

N. J., Jersey City — APARTMENT — Zenith Realty & Investment Co., 294 Seymour Ave., will build 5 story and basement, 60 x 114 ft., brick and steel, plain foundation, 49-51 Glenman Ave. $150,000. Work will be done by separate contracts. M. Kraut, 14 Journal Sq., Jersey City, archt,

N. J., Jersey City—BANK—J. T. Rowland, Jr., archt., 30 Journal Sq., general contract 1 story, mezzanine and basement, 44 x 100 ft., brick and steel, plain foundation, Bergen and Harrison Aves., to Deakman-Wells Co., 921 Bergen Ave., for Provident Institute for Savings, 239 Washington St. Archts. est. $200,000. Noted Oct. 20.

N. J., Long Branch — APARTMENT — David Blum, Inc., 211 Bway., will build 5 story and basement, 50 x 100 ft., brick and steel, plain foundation, Rockwell and Union Aves. $150,000. Work will be done by separate contracts. Seymour & Brauer, Long Branch, archts.

N. J., Newark—AMUSEMENT CENTER—Newark Auditorium, Inc., 671 Broad St., general contract 20 story and basement, 160 x 510 ft., rein.-con., brick and steel, concrete pile foundation, Washington and James Sts., to C. T. Wills, Inc., 286 5th Ave., New York City. Archts. est. $6,000,000. Noted Aug. 11.

N. J., Orange — APARTMENT — H. C. Cassini, 280 Central Ave., will build 4 story and basement, 60 x 150 ft., brick and steel, plain foundation, Central Ave. $150,000. Work will be done by separate contracts. A. P. Nucciarone, 206 Central Ave., archt. Noted Oct. 20.

N. J., Passaic—APARTMENT—P. Bellet, 422 Lexington Ave., Clifton, will build 5 story and basement, brick and steel, plain foundation, 265 Pennington Ave. $150,000. Work will be done by separate contracts. $150,000. Preiskel & Skvarla, 591 Main St., archts. Noted Oct. 20.

N. J., Trenton—TEMPLE—O. Schmidt, archt., 201-02 Union Natl. Bank Bldg., Atlantic City, general contract 3 story and basement, 50 x 110 ft., brick and steel, plain foundation, Elizabeth St. and Pennington Ave., to T. Day & Sons, 1109 Green-

Buildings—Commercial (Continued)

wood St., for Most Worshipful United Grand Lodge F. & A.M. Archts. est. $150,000. Noted Sept. 22.

N. J., Westfield—J. F. Jackson, archt., 137 East 45th St., New York City, general contract 3 story and basement, 130 x 150 ft., brick and steel, plain foundation, Ferris Pl. and Clark St., here, to Mercer Constr. Co., 216 Smith St., Perth Amboy, for Y. M. C. A., 116 Elm St. Archts. est. $300,000. Noted Sept. 22.

Pa., Greensburg—BANK—Barclay Westmoreland Trust Co., general contract 2 story and basement, 40 x 100 ft., rein.-con., brick and steel, plain foundation, here, to J. E. Snyder, Greensburg. Archts. est. $250,000. Noted Sept. 29.

Pa., Phila. — THEATRE, STORE and GARAGE — Hodgens & Hill, archts., 130 South 15th St., 1 story, balcony and basement, 108 x 224 ft., rein.-con., brick and steel, plain foundation, South and 8th Sts., to Haverstick & Bothwick, Schaff Bldg., for Rexy Theatre Co., c/o architect. Noted Sept. 22.

Md., Hagerstown — HOTEL — Alexander Hotel Co., 10 story, 50 x 150 ft., rein.-con., brick and steel hotel, to Wise Granite & Constr. Co., 607 East Canal St., Richmond, Va., $450,000. Former contract rescinded. Noted Apr. 28.

Va., Clifton Forge—HOTEL—B. J. Rowlett, archt., Richmond Trust Bldg., Richmond. Hotel Jefferson, 100 room, brick, here, to Davis Bros., 1716 Summit Ave., Richmond, for Owner, c/o architect. $250,000.

Ala., Demopolis — PASSENGER STATION—See "Buildings-Industrial."

Miss., Columbus — PASSENGER STATION—See "Buildings-Industrial."

La., New Orleans — HOTEL — Weiss, Dreyfus & Serferton, Inc., archts., Maison Blanche Bldg., general contract 18 story and basement, rein.-con., brick and steel, wood pile foundation, Canal St., for Jung Hotel, Canal and LaSalle Sts., to O. M. Gwinn, Union Indemnity Bldg., $749,937; plumbing and heating, to Sciambra & Masino, 636 North Broad St., $169,751; electrical wiring, to Bunn Electric Co., 835 Baronne St., $40,800; electric elevators, to Otis Elevator Co., 852 Carondelet St., $61,936; ventilating, to Blattman Weeser Sheet Metal Wks., 1001 Toulouse St., $27,100, and refrigerating system, to J. W. Hill Plumbing & Heating Co., New Orleans, $31,900. Grand total $1,081,424. Noted Oct. 6.

O., Cleveland—STORAGE—Amer. Steel & Wire Co., H. L. Schuler, engr. constr., Jones Rd., steel contract Mill Building 55, 70 x 480 ft.; 70 x 72 ft. crane runway; 24 x 70 ft. addition to Rod Mill 4; 40 x 144 ft. motor storage building; and 67 x 240 ft. cleaning house addition, East 49th St., to Amer. Bridge Co., Frick Bldg., Pittsburgh, Pa. Archts. est. $750,000. Private plans.

Ind., Indianapolis—APARTMENT—S. A. Clinehens, 913 Fletcher Trust Bldg., 3 story and basement, 91 x 120 ft., brick and steel, 38th St. and Boulevard Pl., to F. W. Hauser, 605 Merchants Bank Bldg. Archts. est. $200,000.

Mich., Detroit—OFFICE—Detroit Edison Co., 2000 2nd Blvd., two 2 story, 40 x 80 ft., and 40 x 85 ft., rein.-con., brick and steel, plain foundation, one at 12th St., and other Grand River Ave., to A. A. Albrecht Co., Penobscot Bldg. Archts. est. $150,000.

Mich., Niles — STORE and OFFICE — W. Ready, general contract, 2 story and basement, brick and steel, Main St., to John Nelson Co., 212 Monroe St. Archts. est. $160,000.

Ill., Chicago — APARTMENT — Quinn & Christiansen, archts., 360 North Michigan Ave., masonry contract 13 story and basement, 61 x 125 ft., rein.-con., brick, stone and terra cotta, 6700 Crandon Ave., to E. Edlund, 1833 Greenleaf Ave.; plumbing, to Federal Eng. Co., 3240 South Michigan Ave.; heating, to Harrison, Spielman & Co., 480 Wilwaukee Ave., for Syndicate, c/o architects. Archts. est. $900,000. Noted Mar. 17.

Ill., Chicago — APARTMENT — Quinn & Christiansen, archts., 360 North Michigan Ave., general contract 17 story and basement, 50 x 125 ft., rein.-con., brick and stone, 5520 Sheridan Rd., to H. Janisch & Co., 1801 Winona St., for Syndicate, c/o architects. Noted Oct. 20.

Ill., Chicago—AUTO SERVICE—Chicago-Nash Co., 2431 South Michigan Ave., general contract 3 story and basement, 160 x 200 x 316 x 376 ft., rein.-con., brick, steel and terra cotta, 210,000 sq.ft. floor space, 24th St., Prairie and Indiana Aves., to Kelly-Atkinson Co., 189 West Madison St. Noted Sept. 1.

Ill., Evanston — APARTMENT — F. W. Cauley (owner and archt.), 7325 Clayton St., Chicago, masonry contract 7 story apartment house, 1518 Hinman Ave., here, to Borg & Johnson, 3452 Irving Park Blvd., Chicago; plumbing and heating, to Nilson Bros., 3222 North Halsted St. Archts. est. incl. site $410,000.

Ill., Joliet—D. H. Burnham & Co., archts., 160 North La Salle St., Chicago, general contract 5 story, 99 x 150 ft., here, to Hanson & Peterson Co., Joliet, for Y.M.C.A. Archts. est. $500,000. Noted June 30.

Minn., Stillwater—PRISON—Comns. Administration & Finance, State Capitol, St. Paul, general contract 3 story and basement, rein.-con. and brick addition to prison, here, to F. C. Norlander, 804 Metropolitan Bank Bldg., St. Paul, $196,500. Noted Sept. 22.

Kan., Wichita—THEATRE—Syndicate, 2 story and basement, 100 x 130 ft., rein.-con., brick and stone, Douglas and Hillside Sts., to G. H. Siedhoff Constr. Co., Broadview Hotel Bldg. Archts. est. $150,000.

Mo., Cape Girardeau—HOTEL—Cape Girardeau Hotel Co., c/o C. L. Harrison, pres., general contract Marquette Hotel, 6 story and basement, 96 x 150 ft., rein.-con., brick, stone and terra cotta, Bway. and Fountain Sts., to A. H. Gerhardt, Cape Girardeau, $143,175. Noted Oct. 20.

Mo., St. Louis—APARTMENT—Syndicate forming, c/o C. E. Etz, archt., 110 North 7th St., 3 story and basement, 180 x 187 x 260 ft., rein.-con., brick and stone, South Kingshighway, to William H. Smith, 110 North 7th St. Archts. est. approximately $500,000. Noted Sept. 29.

Tex., Harlingen — THEATRE — Dent Theatre, Inc., c/o L. L. Dent, pres., 2009½ Jackson St., Dallas, remodeling 3 story, brick and concrete, here, to R. E. Ewing, Harlingen. Archts. est. $165,000.

Okla., Oklahoma City — EXCHANGE — Southwestern Bell Telephone Co., 11th and Pine Sts., St. Louis, Mo., general contract 16 story and basement, 75 x 140 ft., rein.-con., brick and steel, plain foundation, Bway., here, to Hughes & O'Rourke, 1907 North Houston St., Dallas, Tex., $700,000; steam heating, to Cook & McDonnell, Oklahoma City, $200,000. Noted Sept. 29.

Okla., Tulsa — BANK and OFFICE— Weary & Alford, archts., 1923 Calumet Ave., Chicago, Ill., brick concrete, masonry, carpentry, sheet metal and roofing contract 24 story 60 x 135 ft., with 5 story L, Boston St., here, to F. M. Siesel & Co., 160 Ogden Ave., Milwaukee, Wis.; granite, to Maine & New Hampshire Granite Corp., North Jay, Me.; terra cotta, to Northwestern Terra Cotta Co., 2525 Clybourn Ave., Chicago, Ill.; foundation, to R. Grimshaw, Kennedy Bldg., for Exchange Natl. Bank, Boston St. Archts. est. to exceed $1,000,000. Noted Sept. 8.

Calif., Glendale—BANK and OFFICE— Los Angeles 1st Natl. Trust & Savings Bank, Los Angeles, 6 story and basement, steel, Brand Blvd. and Bway., here, to C. Thoren, 5615 West 4th St., Los Angeles, approximately $400,000.

Calif., Long Beach—APARTMENTS and GARAGE—L. V. Mayell, 41 Kennebec Ave., two 14 story and basement, 50 x 210 ft. apartments, and 2 story garage, rein.-con. and steel, Ocean Blvd. and Alameda St., to Kinne & Westerhouse, Black Bldg., Los Angeles, $1,000,000.

Calif., Los Angeles—APARTMENT—D. M. Morris, 3390 San Marino St., will build 7 story and basement, 50 x 120 ft. apartment, 2nd and Mariposa Sts., by day labor. $250,000. F. J. J. Kuchler, 6128 Brynhurst Ave., archt. Noted Oct. 6.

Calif., Los Angeles — APARTMENT — E. C. Williams, 4 story and basement, 50 x 140 ft., brick, 9th St. and Hobart Blvd., to H. Shaw, 412 Pacific Mutual Bldg., approximately $165,000.

Calif., Riverside — OFFICE — Security Title & Guaranty Co., 2 story and basement, rein.-con., Orange and 8th Sts., to R. Wescott Co., 710 South Garfield Ave., Alhambra, $135,000.

Calif., San Francisco — OFFICE and GARAGE — F. C. Morgan, et al., Hunter-Dulin Bldg., 33 to 40 story, incl. garage, Sutter St., to Lindgren-Swinerton, Inc., 225 Bush St., approximately $4,000,000. Noted Oct. 20.

Ont., Toronto—APARTMENT—A. Atkins, 1223 Dufferin St., general contract 2 story and basement, rein.-con., brick and steel, plain foundation, Kingston Rd., to A. Grace, Rusholme Rd.; plumbing and heating, to Duffort Bros., 916 Kingston Rd. Archts. est. $150,000.

Ont., Toronto — APARTMENT — F. J. Reynolds, 103 Merrick Ave., general contract 3 story and basement, rein.-con., brick and masonry and steel, plain foundation, Queen St., to P. Rodaro, 437 Symington Ave. Archts. est. $175,000. Noted Sept. 15.

B. C., Tranquille—HOSPITAL—Provincial Govt. Victoria, 3 story, rein.-con. 100 bed hospital, staff residence, laundry addition, etc. plain foundation, here, to E. J. Ryan Contg. Co., 445 Granville St., Vancouver, $285,945, electrical work, to Hume & Rumble, Ltd., 713 Columbia St., New Westminster, $37,500. Noted June 9.

Buildings—Industrial

Proposed Work

Me., Lewiston—MILL—J. B. Ham Co. plans grain mill, West, Bates and Spring Sts. $40,000 or more. Engineer and architect not selected.

Mass., Boston—GARAGE—J. H. Broderick, 101 Tremont St., having sketches made by G. E. Robinson, 80 Federal St., 3 story, rein.-con. brick and steel, 176-194 Ipswich St. To exceed $40,000.

Mass., North Dartmouth — ICE HOUSE, etc.—A. Lagrasse, 2147 Pleasant St., Fall River, plans rebuilding ice house, recently destroyed by fire, here. $50,000 or more. Engineer and architect not selected.

Mass., Salem — FACTORY — Wineapple Bros., Mason St., having plans prepared by W. H. Hunt & Son, 197a Washington St., 1 story, 60 x 80 ft., timber addition, plain foundation.

R. I., Newport—REPAIR and SERVICE GARAGE—H. L. Rooney, 116 Bellevue Ave., plans 1 story, rein.-con. and steel, Middletown Ave. $40,000 or more. Private plans.

N. Y., Binghamton — COLD STORAGE PLANT—Dept. Pub. Wks., Albany, takes bids probably in January cold storage plant, at Binghamton State Hospital, here. S. W. Jones, Capitol, Albany, state archt.

N. Y., Brooklyn—STEEL FABRICATING PLANT—Mansfield Iron Wks., Inc., 878 East 43rd St., plan steel, East Mill Basin. To exceed $50,000.

N. J., Newark — FACTORY — Hygienic Tube Co., 88 McWhorter St., having revised plans prepared by A. Peter, 207 Market St., 1 story, 100 x 100 ft., brick and steel, plain foundation, Ave. L and Mary St. $40,000. Noted Aug. 18.

N. J., Newark — FACTORY, etc. — J. Morin & Co., Inc., 318 Jefferson St., having revised plans prepared by A. Peter, 207 Market St., 1 story and basement, 40 x 130 ft., brick and steel factory and office building, plain foundation, 320-4 Jefferson St. $40,000. Former bids rejected. Noted July 28.

N. J., Verona (Ind. br. Montclair)—ICE PLANT—Wigton-Abbott Corp., engrs. and archts., 552 West 23rd St., New York City, soon lets general contract 1 story, 98 x 126 ft., brick and tile, here, for Inwood Consumers Ice Mfg. Corp. $40,000.

Pa., Phila.—FACTORY—Ballinger Co., archts., 12th and Chestnut Sts., soon lets contract 2 story and basement, 84 x 207 ft., brick and steel addition, plain foundation, for J. W. Watson Co., 24th and Locust Sts.

Pa., Phila.—BAKERY—Better Cake Co., 1034 South 57th St., soon lets contract 1 story and basement, 40 x 225 ft., brick and steel, plain foundation, 54th and Greenway Sts. Private plans.

Pa., Safe Harbor — HYDRO-ELECTRIC PLANT—See "Unclassified."

Md., Baltimore—PLANT—International Paint Corp., 13th St. and Southern Ry., East St. Louis, Ill., G. B. Dunford, genl. mgr., plans 2 story, 25,000 sq.ft. floor space, Colgate Creek and Pennsylvania R.R. tracks, here.

N. C., Greensboro—FREIGHT STATION —Southern Ry. Co., B. Herman, ch. engr., 1300 Penn Ave., Wash., D. C., takes bids about Dec. 1, general contract rein.-con., brick and steel addition, plain foundation, incl. store house, tracks, driveways, ramps, loading platforms, here. Fedllheimer & Wagner, 155 East 42nd St., New York City, archts. Noted July 6.

N. C., Reidsville — FACTORY — Amer. Tobacco Co., 111 5th Ave., New York City, having plans prepared 2 or 3 story, 82 x 252 ft., brick and steel addition, Jackson St., here. $150,000. J. E. Sirrine & Co., Greenville, S. C., engrs.

Ga., Atlanta — AUTO FACTORY — General Motors Corp., General Motors Bldg., Detroit, Mich., purchased site and plans 4 buildings, incl. 350 x 800 ft. assembly plant, 160 x 680 ft. Fisher body unit, 120 x 200 ft. parts building and 40 x 200 ft. office building, here. $5,000,000.

Tenn., Memphis—LAUNDRY—A. Sharft, Poplar Park, soon lets contract 2 story, 126

Buildings—Industrial (Continued)

x 240 ft. laundry, Linden St. $200,000. Jones & Furbinger, Porter Bldg., archts.

O., Alliance — GARAGE — Mather Auto Serv. Co. soon takes bids 3 story, 60 x 140 ft.; concrete, brick and steel garage and storage building. $50,000.

O., Cleveland — FACTORY — Kux-Bleiweiss Co., M. Kux, secy.-treas., 3626 Lakeside Ave. N. W., had plans prepared by G. S. Rider Co., Century Bldg., 1 story, 36 x 150 ft. brick and steel top addition. $40,000.

O., Hanover — FACTORY — D. Lehman, secy. Hanover Brick Co., 63 Ruggery Bldg., Columbus, plans rebuilding 1 story, brick and steel factory, recently destroyed by fire. $100,000. Private plans.

Mich., Detroit—GARAGE and TRANSFER STATION—City having plans prepared 2 story, 50 x 200 ft., rein.-con. and brick, plain foundation, French and Lynch Rds. $150,000. P. A. Fellows, city engr.

Kan., Wichita—WAREHOUSE—Crane & Co., North Water St., having plans prepared by Schmidt, Boucher & Overend, 4th Natl. Bank Bldg., 1 and 2 story and basement, 150 x 150 ft., rein.-con. and brick warehouse. $100,000.

Mo., Independence—FOUNDRY—Clay & Bailey, 7007 East 15th St., Kansas City, plans new foundry, here.

Tex., Big Springs — OIL REFINERY — Reese Allen Refinery having preliminary plans prepared and surveys made, etc. oil refinery. $100,000.

Tex., LaFeria—COLD STORAGE PLANT—Central Power & Light Co., c/o F. C. Ludden, dist. mgr., San Benito, plans cold storage plant, here. $40,000. Engineer selected soon.

Tex., Mercedes — COLD STORAGE PLANT—Central Power & Light Co., c/o F. C. Ludden, mgr., San Benito, plans 1 story, brick and concrete, here. Engineer and architcet not selected.

Tex., Raymondville—COLD STORAGE PLANT—Central Power & Light Co., c/o F. C. Ludden, mgr., San Benito, plans 1 story, concrete and brick, here. Engineer and architect not selected.

Tex., San Saba—COTTIN GIN PLANT—Ponton & Vogel plan cotton gin plant, probably 60 bale capacity. $40,000. Engineer selected soon.

Okla., Cushing—LIGHT PLANT—City plans 800 hp. Diesel engine electric light plant. $75,000. T. E. Hough, city clk. Engineer and architect not selected.

Colo., Pueblo—AIRPLANE FACTORY—Pueblo Aircraft, Inc., c/o H. Petersen, atty., 1st Natl. Bank Bldg., plans airplane factory near City Park. $100,000.

Wash., Tacoma—PULP MILL—Union Bag & Paper Co., Woolworth Bldg., New York City, having preliminary plans prepared and takes bids about Jan. 1, pulp mill, incl. machinery and equipment, etc. $2,200,000. H. S. Ferguson, 200 5th Ave. New York City, engr.

Calif., Chico—PLANT—Chico Ice & Cold Storage Co., 13th St. and Park Ave., had plans prepared 1 story, rein.-con., Park Ave. $60,000. Private plans.

Calif., Chico—PLANT—C. H. Aroyan, c/o Point Reyes Creamery, Point Reyes, plans powdered milk plant, 7th and Orange Sts. $40,000.

Calif., Lankershim—ICE PLANT—Natl. Ice & Cold Storage Co., 200 Center St., Los Angeles, plans ice plant, probably rein.-con., here. $150,000.

Calif., Los Angeles—FACTORY—Hurley Machine Co., 1017 South Grand Ave., Los Angeles, and 600 West Jackson Bldg., Chicago, Ill., plans assembly and repair plants for Thor washing machines, ironers, vacuum cleaners, etc. To exceed $40,000.

Calif., Los Angeles—LAUNDRY—Hollywood Serv. Laundry, c/o W. J. Saunders, archt., Laughlin Bldg., had plans prepared 2 story, 145 x 235 ft., concrete, Highland Ave. $150,000.

Calif., Sacramento—PULP and PAPER PLANT—Sacramento Pulp & Paper Co., 404 Bryte Bldg., plans fireproof plant, 25 ton daily capacity.

Ont., Leamington — FACTORY — H. J. Heinz Co., 1062 Progress St. N.S., Pittsburgh, Pa., plans plant addition, here. $100,000.

B. C., West Vancouver—SUBSTATION—British Columbia Electric Ry. Co. Ltd., 425 Carrall St., Vancouver, having plans prepared new automatic substation, here. $50,000. J. I. Newell, 425 Carroll Et., Vancouver, engr.

Bids Desired

Mass., Boston — FISH HANDLING PLANT—Commonwealth Ice & Cold Storage Co., A. L. Parker, 220 Northern Ave., taking bids altering and constructing 3 story, brick and steel addition, at Fish pier. To exceed $40,000. E. N. Pike, 38 Chauncy St., archt.

Mass., Framingham—FACTORY—Archer Strauss Rubber Co., J. J. Sindler, in charge, taking bids altering and constructing 1 and 2 story 100 x 225 ft., rein.-con. and brick addition, plain foundation, Herbert St. $50,000. I. Richmond, 48 Boylston St., Boston, archt.

Mass., Worcester — WORK SHOP and SALESROOM—See "Contracts Awarded."

R. I., Providence — GARAGE and REPAIR SHOP—J. Conn, c/o T. J. H. Pierce, Inc., archts., 30 Allens Ave., taking bids rein.-con. and steel, plain foundation, Chestnut and Broad Sts. To exceed $40,000. Noted July 28.

N. Y., New York—AUTO SERVICE and REPAIR GARAGE — See "Contracts Awarded."

N. J., Hoboken — FURNITURE FACTORY — See "Contracts Awarded."

N. J., Jersey City—WAREHOUSE—See "Contracts Awarded."

N. J., Newark—BLENDING PLANT—See "Contracts Awarded."

Pa., Sharon — MACHINE SHOP — See "Contracts Awarded."

Miss., Water Valley — CHEESE FACTORY—Nov. 1, by H. K. Hunter, 2 story cheese factory, brick, for Yolobusha Milk Products Co., $50,000. Austin Co., 160 North LaSalle St., Chicago, Ill., engrs.

Mich., Detroit — POWER PLANT — A. Kahn, archt., 1000 Marquette Bldg., taking bids and opens same about Oct. 27, 2 story, 47 x 85 ft., rein.-con. and brick addition, plain foundation, for Chevrolet Motor Corp., 3044 West Grand Blvd.

Mich., Detroit — FACTORY — J. H. G. Steffens, archt., 415 Brainard St., taking bids and opens same about Oct. 29, 3 story, 30 x 60 ft., rein.-con., brick and steel, plain foundation, Commonwealth Ave., for Kermath Mfg. Co., 5890 Commonwealth Ave. $50,000.

Kan., Ottawa—GAS PLANT—See "Contracts Awarded."

Calif., Los Angeles—FACTORY—See "Contracts Awarded."

Contracts Awarded

Mass., Attleboro — PAPER PLANT — Amer. Reinforced Paper Co., County St., 1 story, 60 x 170 ft., rein.-con. and brick, plain foundation, Starkey Ave., to C. K. Rathbone, 112 Medway St., Providence, R. I. $50,000 or more.

Mass., Boston—SUB-STATION—Edison Electric Illuminating Co., 39 Boylston St., 4 story and basement, 80 x 100 ft., brick and steel, plain foundation, 31-33 Hawkins St., to F. T. Ley Co., Inc., 20 Providence St. Archts. est. to exceed $40,000. Noted Sept. 29.

Mass., Cambridge (br. Boston)—REPAIR and SERVICE GARAGE—Klauer Bros., 345 Franklin St., 2 story, 13,000 sq.ft. floor space, brick and steel, plain foundation, Franklin St., to E. J. Rappoli, 53 Moulton Rd., Arlington. Archts. est. $50,000. Noted Oct. 13.

Mass., Cambridge (Boston P.O.)—SALES, SERVICE and REPAIR GARAGE—M. H. Gulesian, 85 Commonwealth Ave., Newton, 2 story, 125 x 180 ft., rein.-con., brick and steel, plain foundation, 128-144 Brookline St., here, to Marden & Orlando, 143 River Rd., Winthrop. Archts. est. $100,000.

Mass., East Boston (br. Boston)—MANUFACTURING—H. Wise, 58 Summit Ave., Winthrop, 2 story, 30 x 60 ft., rein.-con. and brick, plain foundation, 166-168 London St., to A. Spinnarello, 247 Chelsea St.

Mass., Fitchburg—REPAIR and SERVICE GARAGE—Kenmore Realty Co., c/o B. Rockman, 41 Nobscott Rd., Newton, 2 story and basement, brick and steel, plain foundation, Broad and Putnam Sts., here, to Morgan Bros. Constr. Co., Little Bldg., Boston. Archts. est. $50,000.

Mass., Haverhill — FACTORY — J. A. Wood, 70 Brockton Ave., altering and constructing 2 story brick addition, plain foundation, 97-99 Locust St., to E. L. Baily, 171 North Ave.

Mass., Newton — FACTORY — Owner, 1 story, 40 x 50 ft., rein.-con. and brick, plain foundation, Riverview Ave., to A. A. Walsh, 311 Moody St., Waltham.

Mass., Somerville—CENTRAL HEATING PLANT—City, L. M. Conwell, mayor, City Hall, 1 story, brick central heating plant for High School extension, Highland Ave., to J. M. Hartwell, 46 Cornhill, Boston.

Mass., Worcester — WORK SHOP and SALESROOM—F. W. Taylor, 438 Main St., will alter 2 story, brick, 404 Main St. by day labor. $50,000. Cutting, Carlton & Cutting, 44 Front St., archt.

R. I., Providence—REPAIR and SERVICE GARAGE—C. H. Page & Son, 200 South Main St., 1 story and basement, 50 x 100 ft., rein.-con., brick and steel, plain foundation, Wells St., to P. J. Flynn, 17 Exchange St. Archts. est. $40,000.

Conn., Stamford — POWER HOUSE — Stamford Gas & Electric Co., 11-17 Bank St., 1 story, 60 x 75 ft., brick, steel and concrete addition South St., to T. J. Pardy Constr. Co., 1481 Seaview Ave., Bridgeport. Archts. est. $95,000.

N. Y., New York—AUTO SERVICE and REPAIR GARAGE—Shakespeare Building Corp., 277 Bway., will build 2 story, 100 x 120 ft., brick and steel, plain foundation, Cromwell Ave. $100,000. Work will be done by separate contracts. Franklin, Bates & Heindsmann, 2526 Webster Ave., archts.

N. J., Hoboken — FURNITURE FACTORY — Ferguson Bros. Mfg. Co., 832 Monroe St., will build 2 story, rein.-con. furniture factory. $200,000. Work will be done by separate contracts. O. S. Schlick, 136 Liberty St., New York City, archt. Concrete piles and foundation for same, awarded to Stillman-Delehanty & Ferris Co., 1 Exchange Pl., Jersey City.

N. J., Jersey City—CAN FACTORY—Amer. Can Co., 120 Bway., New York City, steel contract 7 and 8 story, 200 x 500 ft., rein.-con., brick and steel, St. Pauls Ave. and Erie R.R. tracks, here, to Amer. Bridge Co., 30 Church St., New York City; and reinforcing steel, to McClintic Marshall Co., 50 Church St., New York City. Noted Oct. 20.

N. J., Jersey City — GLASS FACTORY and OFFICE—M. T. Treadwell Co., Inc., 140 Cedar St., New York City, 1 story, 120 x 200 ft. factory, and 15 x 40 ft. office building, brick and steel, plain foundation, Tonnelle Ave. between Thorne and Bleecker Sts., here, to M. T. Connolly, Secaucus Rd., Secaucus. Archts. est. $40,000.

N. J., Jersey City—WAREHOUSE—Natl. Asbestos Mfg. Co., 163 Henderson St., will build 1 story, 80 x 180 ft., rein.-con., brick and steel, plain foundation, 163-93 Henderson St. $80,000. Work will be done by separate contracts. A. Davis, 140 Montgomery St., archt. Noted Oct. 20.

N. J., Newark—BLENDING PLANT—Hudson Oil Co., M. Campbell, 109 Broad St., will build 1 story, rein.-con., brick and steel, plain foundation, Doremus Ave. $60,000. Work will be done by separate contracts. E. A. Self, 247 Park Ave., New York City, archt.

N. J., Piscatawaytown (mail New Brunswick)—GAS PLANT—Internal Combustion Engine Corp., 200 Madison Ave., New York City, will build low temperature carbonization gas plant, at Silver Lake, here. $1,500,000. Work will be done by separate contracts. Private plans. Noted Aug. 18.

N. J., Vineland — FACTORY — Kimble Glass Co., 2 and 3 story and basement, 52 x 160 ft. and 24 x 46 ft., rein.-con., brick and steel, plain foundation, to H. J. Homan Co., 18th and Cherry Sts., Phila., Pa.

Pa., New Castle — PLANT — Shenango Pottery Co., general contract 1 and 3 story, 100 x 540 ft., and 180 x 400 ft., brick and steel addition, to Austin Co., Union Trust Bldg., Pittsburgh. Archts. est. $500,000.

Pa., Phila.—CIGAR FACTORY—Bayuk Cigar Co., 3rd and Spruce Sts., general contract 8 story and basement, 60 x 100 ft. cigar factory, here, to Wark Co., 1600 Walnut St.

Pa., Sharon—MACHINE SHOP—Sharon Steel Hoop Co. will build 1 story, 70 x 100 ft., brick and steel machine shop. $50,000. Work will be done by separate contracts. Private plans. Noted Oct. 6.

N. C., Statesville — SILK MILL — J. C. Bossong & Co., 88 Franklin St., New York City, silk mill, here, to Grier-Lowrance Constr. Co., Statesville. Engrs. est. $200,000.

Ala., Demopolis—FREIGHT and PASSENGER STATION—R. G. Stephens, archt., c/o St. Louis-San Francisco Ry. Co. (owner), Frisco Bldg., St. Louis, Mo., 1 story, 35 x 226 ft., rein.-con., brick and steel, here, to W. F. Pauley, 741 South St., Springfield, Mo. Archts. est. $100,000.

Miss., Columbus—FREIGHT and PASSENGER STATION—R. G. Stephens, c/o St. Louis-San Francisco Ry. Co. (owner), Frisco Bldg., St. Louis, Mo., 1 story, 35 x 226 ft., rein.-con., brick and steel, here, to W. F. Pauly, 741 South St., Springfield, Mo. Archts. est. $100,000.

Miss., Water Valley—LIGHT PLANT—See "Waterworks."

Buildings—Industrial (Continued)

Tenn., Elizabethton—SILK MILL—Amer. Bemberg Corp., 65 Madison Ave., New York City, general contract rein.-con., brick and steel addition, here, to J. W. Cowper Co., Inc., Fidelity Bldg., Buffalo, N. Y.; and steel work, to Virginia Bridge & Iron Co., Roanoke, Va. Engrs. total est. $3,000,000. Noted July 21.

O., Cleveland — FACTORY — Champion Machine & Forging Co., L. W. Greve, pres., 3695 East 78th St., 1 story, 89 x 178 ft., brick and steel, 3695 East 78th St., to Hecker-Moon Co., 8701 Union Ave. Archts. est. $40,000. Noted Oct. 13.

Ind., Hammond—BOILER ROOM, TURBINE ROOM, etc.—State Line Generating Co., superstructure 339 x 420 ft. boiler room, turbine room and switch house, to Herlihly Bros., 6 North Michigan Ave., Chicago, Ill., approximately $2,000,000.

Ind., South Bend—MACHINE SHOP—Whitcomb & Keller, general contract 1 story and basement, 33 x 165 ft., rein.-con., brick, steel and stone, machine shop and sales department, 317 South Lafayette St., to C. A. Jordan, 2303 Kerslade St. Archts. est. $43,000.

Ind., Terra Haute—SHOP and GARAGE—L. E. Waterman, general contract 1 story, 65 x 160 ft., brick and steel, Cherry St., to Adams & Sanford, 1215 South 8th St. Archts. est. $40,000.

Mich., Detroit—MOTOR PARTS FACTORY—Detroit Motor Parts Co., 11801 Mack Bldg., 1 and 2 story, 140 x 427 ft., rein.-con., brick and steel, plain foundation, Mack Ave., to Walbridge Alldinger Co., 2312 Penobscot Bldg. Archts. est. approximately $125,000. Noted Oct. 13.

Mich., Detroit — CANDY FACTORY — Smith, Hinchman & Grylls, archts., and engrs., 800 Marquette Bldg., 3 story, 70 x 100 ft., rein.-con. and brick, plain foundation, Gratiot Ave., to C. O. Barton Co., 508 Free Press Bldg for Detroit Candy Co., 1528 Gratoit Ave. Archts. est. $150,000. Noted Oct. 6.

Mich., Flint—SPARK PLUG FACTORY—A. C. Spark Co., Industrial Ave., 1 story, 84 x 364 ft., brick and steel addition, plain foundation, to Austin Co., General Motors Bldg., Detroit. Engrs. est. $40,000.

Ill., Chicago — FACTORY — Best Food, Inc., 2802 South Kilbourne Ave., masonry and carpentry contract 2 story, 66 x 253 ft., brick, 2842-48 Kilbourne Ave. S., to E. L. Archibald Co., 111 West Washington St. Archts. est. $83,000.

Wis., Milwaukee—KNITTING MILL—Federal Eng. Co., engrs., 440 Milwaukee St., general contract 4 story and basement, 100 x 140 ft., concrete and brick, plain foundation, 220 Reed St., to P. Riesens Sons, 1018 Humboldt Ave., for Eagle Knitting Mills, 186 East Water St. $175,000. Noted Sept. 22.

Kan., Ottawa—GAS PLANT—Cities Serv. Gas Co., will build 1 story and basement, 70 x 120 ft. and 30 x 120 ft. gas plant, Logan St. $600,000. Work will be done by separate contracts under supervision C. A. Caddin, 234 Maple St., supt. constr. Private plans.

Mo., Marshall—AIRPLANE FACTORY—Nicholas-Beazley Airplane Co., R. Nicholas, pres., 32 x 300 ft., and 80 x 160 ft. both 1 story, rein.-con. and steel, North and English Sts., to W. P. Gollong, Marshall. Archts. est. $40,000. Noted Oct. 13.

Mo., St. Joseph — BREWERY — M. K. Goetz Brewing Co., 6th and Albermarle Sts., 4 story and basement, 30 x 65 ft., and 45 x 61 ft., rein.-con. and brick additions, 6th and Albermarle Sts., to Lawhon Constr. Co., 110 North 9th St. Archts. est. $75,000.

Tex., Houston—PUBLISHING PLANT—Gulf Publishing Co., 1716 Dallas St., 2 story, 70 x 166 ft., rein.-con. and steel, Buffalo Dr. and Rochow St., to D. Hall, Cotton Exch. Bldg., Houston, $85,000.

Tex., Wichita Falls—FACTORY—Kraft Cheese Co., c/o C. H. Kraft, brick and timber, Sibley and Broad Sts., to Naylor & Collins Co., 3000 Grand St. $40,000.

Okla., Tulsa—INDUSTRIAL—Frates Co., 19 West 4th St., 4 story and basement, 100 x 140 ft., rein.-con. and brick, Cincinnati St., to B. Gillilan, 1410 East 6th St., $125,000.

Calif., Anaheim—BAKERY—Weber Baking Co., 582 San Pedro St., Los Angeles, 1 and 2 story, 85 x 150 ft., brick and rein.-con., Placentia St. and State Blvd., near here, to Hamlyn & Young, Anaheim. $50,000.

Calif., Los Angeles—FACTORY—M. M. Marston, archt., Douglas Bldg., 1 story and basement, 50 x 50 ft., brick addition, South Maple Ave., to Houghton & Anderson, 143 Rose St., for Egyptian Lacquer Mfg. Co., 1142 South Maple St. Noted Aug. 25.

Calif., Los Angeles—FACTORY—Firestone Tire & Rubber Co., 1165 South Figueroa St., will build probably 7 buildings, main one being 1 and part 3 story, 360 x 456 ft., rein.-con., Alameda St. and Manchester Ave. near South Gate. $7,000,000. Work will be done by segregated contracts under supervision Curlett & Beelman, archts., 1020 Union Bank Bldg. Contract for boiler and power plant recently awarded to Stone & Webster, 147 Milk St., Boston, Mass. Noted Aug. 11.

Que., Gatineau — MILL — International Fibre Board Ltd., 1 story, 1,300 ft. long, rein.-con. and brick, concrete foundation, on International Paper Co. property, to Fraser Brace Constr. Co., 83 Craig St. W., Montreal. Engrs. total est. $2,000,000. Noted Oct. 6.

Ont., Kapuskasing—PAPER MILL and POWER PLANT—Spruce Falls Power & Paper Co., J. H. Black, genl. mgr., paper mill and power plant, to Morrow & Beatey, Peterboro. Engrs. est. $5,000,000. Noted Feb. 18.

Ont., Toronto — FACTORY — Willys-Overland Ltd Weston Rd., general contract 1 and 2 story and basement, 67 x 200 ft., rein.-con., brick and steel addition, plain foundation, to W. H. Yates Constr. Co., 95 King St. E. Archts. est. $175,000. Noted Sept. 22.

Ont., Toronto—PAPERBOARD PLANT—Dominion Boxboards Ltd., 130 Duchess St., general contract 1 story, concrete, brick and steel plant, machine room, beater room, power plant, etc., Cherry St., to Toms Contg. Co., 245 St. Clair Ave. E.; piling, to Russell Constr. Co., Harbor Comn. Bldg. Engrs. est. $1,000,000. Noted Sept. 22.

Buildings—Educational, Religious

Proposed Work

Mass., Boston—SCHOOL—City, Schoolhouse Dept., having plans prepared by J. Driscoll, 10 Tremont St., Boston, 6 story and basement, 60 x 115 ft., brick, steel and limestone, continuation school plain foundation, Warrenton and Common St. $600,000.

Mass., Somerville—SCHOOL—City, L. M. Conwell, mayor, takes bids about Oct. 20, altering and constructing 2 and 3 story and basement, 75 x 165 ft. and 80 x 175 ft., brick and stone addition, plain foundation, incl. central heating plant, Highland Ave. $1,250,000. F. I. Cooper Corp., 172 Tremont St., Boston, archts.

Mass., Weston — ADMINISTRATION — Sisters of St. Joseph, M. Domitilla, 618 Cambridge St., Brighton, having plans prepared by T. E. Sheehan, 120 Boulston St., Boston, 4 story and basement, brick, foundation, here, for St. Regis College. $150,000 or more.

R. I., Providence — CHURCH and COMMUNITY CENTER—Tabernacle Methodist Church, G. D. Stanley, master, soon lets contract, 2 story and basement, 55 x 100 ft., brick, steel and stone, plain foundation, Plainfield St. $150,000. G. Henshaw, 87 Weybosset St., archt.

Conn., Bloomfield—SCHOOL—Town, c/o L. A. Tobie, chn. building comn., having plans prepared by W. P. Crabtree & Son, 410 Asylum St., Hartford, 2 story and basement, brick and steel, incl. auditorium gymnasium, domestic science and manual training departments. $150,000. Noted Dec. 6.

Conn., Hartford — SYNAGOGUE — Congregation Ados Israel, c/o S. Kaplan, 71 Fern St., plans new synagogue, Blue Hills Ave. $200,000. Engineer and architect not selected.

N. Y., New Rochelle — CHURCH — First Presbyterian Church, 34 Pintard Ave., having plans prepared by John Russell Pope, 542 5th Ave., New York City, brick church. $300,000.

N. Y., New York—SCHOOL—Children's University, 10 West 72nd St., having plans prepared by R. H. Davis, Jr., 350 Madison Ave., 9 story and basement, brick and steel, plain foundation, 114 East 89th St.

N. Y., Rome—SCHOOL—Bd. Educ. having plans prepared by F. W. Kirkland, 202 West Dominick St., and H. G. Rice, associated archt., 135 Dominick St., and takes bids in November, 3 story, 100 x 150 ft. school, North and Ann Sts. $170,000.

N. J., Cresskill—SCHOOL—Bd. Educ. having sketches made by Hacker & Hacker, Fort Lee Trust Bldg., Main St., Fort Lee, 2 story and basement, brick and steel, plain foundation. $450,000.

N. J., Caldwell—SCHOOL—Bd. Educ., Boro Hall, Roseland Ave., plans 2 story and basement, brick and steel, plain foundation. $150,000. Engineer and architect not selected.

N. J., North Haledon (mail Paterson)—SCHOOL—Bd. Educ. soon takes bids general contract 2 story and basement, brick and steel, plain foundation. $150,000. Lee & Hewitt, 152 Market St., Paterson, archts. Noted Sept. 8.

N. J., North Haledon (mail Paterson)—ORPHANAGE—J. Bellomo, archt., 6 Park Ave., Paterson, soon takes bids general contract 3 story and basement, 60 x 125 ft., brick and steel, plain foundation, Belmont Ave., here, for Sisters Order Daughters of Mary, Help of Christians, 41 Ward St., Paterson. $150,000. Noted July 21.

N. J., Union — SCHOOL — Bd. Educ., Town Hall, having sketches made by F. A. Elsasser, 845 Broad St., Newark, 2 story and basement, brick and steel, plain foundation, Washington Ave. and Chestnut St. $200,000.

Del., Dover — COLLEGE — Delaware School Auxiliary (A. Tayler in charge), Dupont Bldg., Wilmington, having plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, N. J.; state college for colored pupils, brick and steel, plain foundation, here. $150,000.

Del., Millsboro — SCHOOL — Delaware School Auxiliary, (A. Taylor in charge), Dupont Bldg., Wilmington, having plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, N. J., 2 story and basement, brick and steel, plain foundation, here. $150,000.

Va., Richmond—DORMITORY—University of Richmond having plans prepared by C. M. Robinson, Times Dispatch Bldg., dormitory, etc., on campus. $500,000.

Va. Roanoke — SCHOOLS — Bd. Educ. plans expending $750,000, school buildings and additions, also Junior High School addition. C. M. Robinson, Times Dispatch Bldg., Richmond, archt.

Ga., Augusta — NURSES HOME — City, c/o J. W. Westmoreland, had plans prepared by Scroggs & Erwing, 608 S. F. C. Bldg., 3 story nurses home. $175,000.

La., Lake Charles—CHURCH—Broad Street Methodist Church, R. H. Wynn, pastor, rejected bids Sept. 1, 3 story, rein.-con., brick, stone and steel, Broad and Kirkman Sts. $150,000. R. S. Cook, Lake Charles, and Asmus & Clark, Nashville Trust Bldg., Nashville, Tenn., archts. Noted Sept. 22.

Tenn., Normal—SCHOOL—State, c/o Bd. Educ., having preliminary plans prepared by G Mahan, Jr., Citizens Savings Bank Bldg., Nashville, school. $200,000.

O., Cincinnati—CHURCH—W. C. Jones, archt., 19 South La Salle St., Chicago, Ill., soon lets contract 3 story and basement, 100 x 107 ft., brick and rein.-con., plain foundation, Calhoun St., for 3rd Evangelical Protestant Church, 829 Walnut St. $200,000.

O., Cleveland Heights (Warrensville P. O.)—CHURCH—St. Anns Roman Catholic Church, J. M. Powers, pastor, 2115 Coventry Rd., having plans prepared by Walker & Weeks, 2341 Carnegie Ave., Cleveland, 1 story, steel and limestone, Coventry and Cedar Rds. $400,000.

O., Cleveland Heights (Warrensville P.O.)—CHURCH and SUNDAY SCHOOL—Cleveland Heights Presbyterian Church, J. M. Blackwood, pastor, 3272 Tullamore Rd., having plans prepared 1 and 3 story, 80 x 156 ft., steel and limestone. Washington Blvd. $300,000. Private plans.

O., Kenmore—SCHOOL—Bd. Educ. takes bids in spring 2 story and basement, brick, steel and concrete school. $160,000.

O., Norwood (Ind. br. Cincinnati)—SCHOOL—Sisters of Precious Blood, 3518 Montgomery Rd., having plans prepared by Crowe & Schulte, 2436 Reading Rd., Cincinnati, 3 story and basement, brick and rein.-con. plain foundation, Fenwick St. $550,000.

Ind., Hobart—SCHOOL—School Trustees had plans prepared by Wainwright & Vaughn, 1st Natl. Bank Bldg., Hammond, 2 story and basement, 66 x 200 ft. with two 42 x 91 ft. wings, brick, steel and stone school. $200,000.

Ind., Mishawaka — SCHOOL — School Comrs., P. C. Emmons, supt., 1202 Lincoln Way, having preliminary plans prepared Grade and Junior High School, 2 story and basement, rein.-con., brick and steel, Lincoln Way. $200,000. Engineer and architect not selected.

Mich., Oxford — HIGH SCHOOL — Bd. Educ. having plans prepared by Cowles & Mutcheller, 114 North Washington St., Saginaw, 2 story and basement, rein.-con., brick and steel, plain foundation. $150,000.

Ill., Belleville — SCHOOL — Bd. Educ. having preliminary plans prepared 3 story and basement, rein.-con., brick and stone, Stolberg Pl. $275,000.

Ill., Chicago—OFFICE and LIBRARY—Bd. Educ., 650 South Clark St., J. L. Coath,

Buildings—Educational, Religious (Cont.)

pres., plans 24 story office and library building, Washington and Michigan Blvds. $10,000,000.

Ia., Des Moines — CHURCH — United Presbyterian Church having plans prepared by J. H. Felt & Co., 300 West 47th St., Kansas City, Mo., 2 story and basement, L shaped, rein.-con., brick and stone, plain foundation, Beaver Ave. $150,000.

Minn., New Ulm — COLLEGE — Martin Luther College takes bids in spring superstructure 2 story and basement, rein.-con., brick and stone college. $300,000. Foundation for same, awarded to Standard Constr. Co., 1111 Plymouth Bldg., Minneapolis, approximately $25,000. Toltz, King & Day, Builders Exch. Bldg., St. Paul, archts.

Kan., Hays—SCIENCE HALL—Kansas State Teachers College having plans prepared by C. D. Cuthbert, State House, Topeka, 3 story and basement, 51 x 210 ft., and 81 x 105 ft., stone science hall. $160,000. Noted Apr. 28.

S. D., Vermilion — GYMNASIUM, etc. — University of South Dakota having plans prepared by Hugill & Blatherwick, 367 Boyce-Greeley Bldg., Sioux Falls, 135 x 216 ft. gymnasium, armory, swimming pool, etc. $250,000. J. Berg, Pierre, state engr.

Mo., Columbia — DORMITORIES — Stephens College plans 2 dormitories. $500,000.

Okla., Oklahoma City—COLLEGE—Oklahoma City College, R. T. Stuart, chn., having preliminary plans prepared Fine Arts Building, rein.-con. and brick, 24th St. $150,000.

Ariz., Phoenix — COLLEGE — Jesuit Fathers (William Brophy Memorial College), c/o Beezer Bros., archts., 580 Market St., San Francisco, Calif., takes bids about Nov. 1, three 2 story, rein.-con. and stucco buildings, here. $250,000.

Wash., Seattle—LABORATORY—Bd. of Regents University of Washington, takes bids about Jan. 1, 4 story and basement, 65 x 144 x 214 ft., rein.-con., brick and steel physics laboratory, on campus. $460,000. J. Graham, Dexter Horton Bldg., archt. Noted Oct. 6.

Calif., Berkeley — DORMITORY — University of California having plans prepared by G. W. Kelham, 315 Montgomery St., San Francisco, International Dormitory, fireproof, Piedmont Ave. and Bancroft Way. $1,750,000.

Calif., Glendale — SCHOOL — Glendale Union High School Dist., having plans prepared by G. M. Lindsey & E. P. Elden, associated archts., Union Insurance Bldg., 3 story rein.-con., incl. classroom, shop, etc. To exceed $185,000.

Calif., Oakland—HIGH SCHOOL—School Dist. plans fireproof, Foothill Blvd. and 85th Ave. $500,000. Miller & Warnecke, Actico Bldg., archts.

Ont., Hamilton — CHURCH — Charlton Westmount United Church, W. H. Wardrope, chn. building com., Charlton Apartments, having plans prepared by J. G. Morton, Hamilton, brick, steel and stone, Locke St. $250,000.

Ont., London—LIBRARY—City Council, J. M. Moore, mayor, City Hall, plans new library, Queens Ave. $250,000. Engineer and architect not selected.

Ont., Port Arthur—TECHNICAL SCHOOL—Bd. Educ. having plans prepared by C. D. Howe & Co., Whalen Bldg., 3 story and basement, brick, steel and stone, concrete foundation. $300,000.

Ont., Sarnia—SCHOOL—Council having plans prepared by C. C. Woods, Imperial Bldg., 2 story, 20 room, fireproof construction, East Sarnia, $150,000.

Ont., Windsor — SCHOOL — Bd. Educ. having plans prepared by Pennington & Boyde, Bartlett Bldg., 2 story and basement, 12 room, brick, steel and stone, concrete foundation, $175,000.

Bids Desired

Mass., North Adams — CHURCH — Methodist Episcopal Church, c/o Woodbury & Stuart, archts., 581 Boylston St., Boston, taking bids 1 story and basement, brick and stone, plain foundation, Main St. $150,000.

Mass., North Adams — CHURCH — Oct. 31, by Methodist Episcopal Church, C. T. Phelps, chn. com., 1 story and basement, brick, steel and stone, Main St. $150,000. Woodbury & Stuart, 581 Boylston St., Boston, archts. Noted May 12.

R. I., Providence—CONVENT—Oct. 31, by St. Xavier Academy, c/o M. Mathieu, 2 story and basement, brick, steel and stone, Pine and Broad Sts. $150,000. A. J. Murphy, 146 Westminster St., archt.

Conn., East Haven (br. New Haven)—LIBRARY—Oct. 31, by Hagaman Memorial Library, 2 story and basement, 70 x 120 ft., brick, tile, stone and steel, Main St. $150,000. Davis & Walldorf, 70 College St., New Haven, archts.

Conn., Storrs — LABORATORY and CLASSROOM—Nov. 1 (extended date), by D. K. Perry & E. E. Bishop, archts., 17 Court St., New Britain, 3 story and basement, 60 x 110 ft., and 60 x 225 ft., brick and limestone, plain foundation, here, at State Agricultural College. $300,000. Noted Oct. 13.

N. Y., New York—SCHOOL—Nov. 15, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, general contract P. S. 40, East 19th St. near 2nd Ave., here, for Bd. Educ., 500 Park Ave.

N. Y., Yonkers—CHURCH—Nov. 1, by St. Pauls Episcopal Church, c/o Cram & Ferguson, archts., 248 Boylston St., Boston, Mass., 1 story and basement church, here. To exceed $150,000. Noted Mar. 3.

Md., Baltimore—MEDICAL LIBRARY—Nov. 10, by E. L. Tilton, archt., 141 East 45th St., New York City, 3 story and basement, 76 x 156 ft., rein.-con., brick and limestone, Wolfe and Monument Sts., here, for Johns Hopkins University, Wolfe and Monument Sts. $450,000. Noted Apr. 7.

W. Va., Morgantown — CHURCH and SUNDAY SCHOOL — Davis, Dunlap & Barney, archts., Walnut St., Phila., Pa., taking bids 1 and 2 story and basement, irregular shaped church and Sunday school, here, for First Baptist Congregation. $150,000.

O., Berea—DORMITORY—Baldwin-Wallace College, A. B. Storms, pres., taking bids and open same about Nov. 1, 3 story and basement, brick, steel and concrete dormitory. $200,000. W. Watson & associates, 4614 Prospect Ave., Cleveland, engrs. and archts.

Minn., Minneapolis—SCHOOL—Nov. 4, by Bd. Educ., 305 City Hall, 2 story and basement, 150 x 260 ft., rein.-con., brick and Bedford stone, East 53rd St. and 29th Ave. S. $225,000. Depts. Engineers and Architects, 245 9th Ave. N., engrs. and archts.

Bids Received

N. Y., Amenia—SCHOOL—Commissioner Mental Hygiene, Dept. Mental Hygiene, Albany, Oct. 19, general contract 23 buildings at Wassaic State School, here, from Seglin-Harrison Constr. Co., Inc., 615 Walbridge Bldg., Buffalo, $2,359,220. Noted Sept. 15.

Contracts Awarded

Mass., Attleboro—CHURCH—St. Joseph's Roman Catholic Church, A. Berube, pastor, 208 South Main St., 1 story and basement, brick and stone, plain foundation, South Main and Maple Sts., to L. Bolduc & Sons, 579 Middle St., Fall River. Archts. est. $150,000.

Mass., West Roxbury (Sta. Boston) — SCHOOL — City of Boston, Schoolhouse Dept., 2 story and basement, brick, granite and limestone, plain foundation, Robert Gould Shaw Dist., here, to Matthew Cummings Co., 43 Tremont St., Boston. Archts. est. $220,000.

Mass. Worcester—CHURCH—Our Lady of Mt. Carmel Parish, G. Maffie, pastor, 1 story and basement brick and stone, plain foundation, Mulbury St., to J. P. Keating, 80 Boylston St., Boston. Archts. est. $160,000. Noted Sept. 15.

Conn., West Hartford (br. Hartford)—SCHOOL—B. I. Miller, town mgr., for Elmwood Grammer School, 2 story and basement, brick, New Britain Ave. and Quaker Lane, to A. F. Peaselee, 15 Lewis St., Hartford, $172,083; heating and plumbing, to T. G. Shaffer, 52 South Main St., West Hartford, $29,200. Noted Sept. 29.

N. J., Fort Lee — HIGH SCHOOL — Bd. Educ., Municipal Bldg., general contract 2 and 3 story, brick and steel, plain foundation, Lemoine Ave., to F. and C. Haerter, 769 Dewey St., West New York. $449,860. Noted Sept. 22.

N. J., Jersey City — LIBRARY — Pub. Library, 472 Jersey Ave., general contract 3 story and basement, brick and steel, plain foundation, Jersey Ave., Montgomery and Mercer Pls., to W. Robertson & Son, 15 Exchange Pl. Archts. est. $200,000.

N. J., Newark — SUNDAY SCHOOL — Kilburn Memorial Presbyterian Church, 962 South Orange Ave., general contract 2 story and basement, 125 x 130 ft., brick and steel addition, plain foundation, Norwood St. and South Orange Ave., to Fatzler Co., 676 South 16th St. Archts. est. $150,000.

N. J., New Brunswick—SCHOOL—Bd. Educ., Livingston Ave., general contract 2 story and basement, 55 x 130 ft., brick and steel, plain foundation, Stone St., to J. L. Snitzler Raritan Ave., Highland Park, $111,887. Noted Sept. 29.

N. J. Montclair—SCHOOL—Church of Immaculate Conception, E. M. Farrell, pastor, 51 North Fullerton St., general contract 3 story and basement, 106 x 115 ft., brick and steel, plain foundation, 24-26 Cottage Pl., to D. W. McGee Constr. Co., 142 1st St., Newark. Archts. est. $225,000.

N. J., Weehawken—SCHOOL—Bd. Educ., general contract Roosevelt School, to F. and C. Haerter, 769 Dewey Ave., West New York, $259,000; iron work, to Selbach-Meyer Co., 601 22nd St., West New York, $32,976. Noted Sept. 29.

Pa., Carlisle—GYMNASIUM—Dickinson College, 110 x 140 ft. rein.-con., brick and steel gymnasium, incl. 27 x 75 ft. swimming pool, etc., plain foundation, here, to H. Lackey, Carlisle, approximately $200,000. Noted Sept. 22.

Va., Harrisonburg — HIGH SCHOOL — Bd. Educ. (1st unit), 3 story, 150 x 150 ft., concrete, stone, brick, steel and terrazo, to Harrisonburg Building & Supply Co., Harrisonburg, $196,000. Total $500,000.

Ala., Birmingham — SCHOOLS — Bd. Educ., to M. C. Banks Constr. Co., 2501-1st Ave., general contract Gibson School, 3 story, 50 x 100 ft. $76,811, Barrett School, 50 x 150 ft., at East Lake $46,500, Jackson School, 50 x 100 ft. $51,330, and Norwood School 50 x 75 ft. $30,707, all foregoing 2 story, brick additions; to J. F. Holley Constr. Co., 817-19th St., 2 story, 50 x 100 ft., brick addition to Avondale St. $74,751; and to T. Purcis, Amer. Trust Bldg., 2 story, 25 x 100 ft., brick addition to Lee School, $43,600. Grand total $323,699. Noted Apr. 21.

O., New Concord—SCIENCE HALL—Muskingum College, 2 story and basement, brick, stone and concrete, to E. Mast & Son, Zanesville, approximately $165,000.

Mich., Birmingham—SCHOOL and CONVENT—Holy Name Parish, 300 Harmon Ave., 2 story and basement, 8 room, rein.-con., brick and steel, plain foundation, Harmon Ave., to Hazleton & Clark Co., Book Bldg., Detroit. Archts. est. $150,000.

Wis., Green Bay — NURSES SCHOOL and HOSPITAL — Schmidt, Garden & Erickson, archts., 104 South Michigan Ave., Chicago, Ill., general contract entrance addition to nurses school and hospital, here, to Hutter Constr. Co., Fond du Lac, for St. Marys Hospital. Archts. est. $200,000.

Kan., Lindsborg — MUSIC HALL and CONSERVATORY—Bethany Lodge, 1 and 2 story and basement, 118 x 188 ft., rein.-con., brick and stone, to Swenson Constr. Co., Shubert Bldg., Kansas City, Mo. Archts. est. $200,000.

Calif., Berkeley — DORMITORY — University of California, for Bowles Dormitory, on campus, to P. J. Walker Co., Sharon Bldg. San Francisco, $350,000 cost plus percentage basis. Noted Sept. 8.

Calif., Mountain View — SCHOOL — Mt. View Grammar School Dist., 2 story, rein.-con., to L. Diaguardi, 30 West Poplar Ave., San Mateo, $147,654. Noted Oct. 20.

Calif., San Francisco — SCHOOL — Bd. Pub. Wks., general contract fireproof annex, Folsom and Tompkins Sts., to F. J. Reilly, 6350 Fulton St., for City and San Francisco Co. $135,720. Noted Sept. 22.

Federal Government Work

Proposed Work

Alaska—Roads, etc.—U. S. Dept. Agriculture, Wash., D. C., plans reconstructing Glacier Highway, $11,500; and bridges on Kenai Lake Highway, $23,500.

T. H., Hilo—Main—Spec. 5446—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans water main at Naval Radio Station, here.

Bids Desired

Conn., New London—Repairing Wharf—Nov. 11, by Constructing Quartermaster, Fort H. G. Wright, N. Y., repairing wharf, foot John St., here.

N. Y., New York—Roof—Spec. 5465—Nov. 9, by Bureau Yards & Docks, Navy Dept., Wash. D. C., awning roof at Naval Hospital, here. L. E. Gregory, ch. of Bureau; adv E. N.-R. Oct. 27.

D. C., Wash.—Excavating—Nov. 3, by Treas. Dept. at office Supervising Archt., excavating for Internal Revenue and Commerce Buildings. Noted Aug. 5, 1926, and Feb. 17.

N. C., Belhaven—Bridge—Nov. 12, by U. S. Engineer Office, Norfolk, Va., constructing single track steel swing railway bridge at proposed crossing of New Holland, Higginsport & Mount Vernon R.R.

Federal Government Work (Continued)

Inland Waterway from Norfolk, Va. to Beaufort Inlet, N. C., about 12 mi. east of here; adv. E. N.-R. Oct. 27.

Wash., Puget Sound—Motor Generator Sets—Spec. 5447—Nov. 2 (extended date), by Bureau Yards & Docks, Navy Dept., Wash., D. C., motor generator sets at Navy Yard, here. Noted Oct. 13.

Bids Received

Va., Norfolk—Dredging—U. S. Engineer Office, dredging 2,000,000 cu.yd. in southern and eastern branches Elizabeth River, Norfolk Harbor, here, from Atlantic, Gulf & Pacific Dredging Co., 13 Park Row, New York City, at $0.1789 per cu.yd.

Ky., Louisville—Beartrap Leaves—U. S. Engineer Office, P. O. Box 27, Oct. 14, fabricating and erecting beartrap leaves for Dam 52, Ohio River, here, from Nashville Bridge Co., foot Shelby Ave., Nashville, Tenn., $84,970. Noted Sept. 29.

O., Akron—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., Oct. 19, U. S. Post Office, here, from A. Blair, 11 South Lawrence St., Montgomery, Ala., $449,254. Noted Supt. 22.

Washington—Clearing Site—Bureau Reclamation, Denver, Colo., Oct. 10, clearing 221 acre site above proposed diversion dam, for main canal of Kittitas Division, Yakima Project, here, from General Constr. Co., Colman Bldg., Seattle, $36,925.

Contracts Awarded

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, concrete repaving portions Broad and Gordon Sts., to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $18,280; Quinlan and Victory Blvds., to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $8,483; and concrete curbing, etc., Victory Blvd., to R. Laurin, $5,677. Grand total $32,440. Noted Sept. 29.

Md., Camp Mead—Barracks—Constructing Quartermaster, Oct. 19, 3 barracks buildings, here, to Palmer Spiney, Elizabeth Ave., Charlotte, N. C. $370,950. Noted Sept. 29.

N. C., Wilson—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., U. S. Post Office, here, to C. Weitz Sons, 713 Mulberry St., Des Moines, Ia., $171,256. Noted Oct. 20.

Unclassified

Proposed Work

Grade Crossing Elimination—New York—New York Central R.R. Co., 466 Lexington Ave., New York City, J. B. Freeman, ch. engr., making plans eliminating grade crossings at Austin and Amherst Sts., Buffalo; $3,000,000; on Fort Hunter Rd., Tribes Hill, $115,000; and on St. Regis Rd., Clear Lake Junction, $100,000.

Dock—Albany, N. Y.—Albany Dist. Port Comn. soon takes bids 712 ft. oil dock, adjoining south end Port of Albany dock, at Westerlo Island. $90,000. E. P. Goodrich, port engr.

Elimination Grade Crossing—Coxsackie, N. Y. — Pub. Serv. Comn., Albany, plans eliminating Mansion St. grade crossing, of the West Shore R.R., here. $137,000.

Exit Facilities and Fire Stops—Ogdensburg, N. Y.—Dept. Mental Hygiene, Albany, takes bids in December exit facilities and fire stops at St. Lawrence Hospital, here. S. W. Jones, Capitol, Albany, state archt.

Swimming Pool — Elizabeth, N. J. — Bd. Recreation Comrs., City Hall, making plans concrete swimming pool, bath houses and filtration plant at Elizabeth River, west of Morris Ave. $55,000. W. L. Finne, 91 Broad St., archt.

Boardwalk — Ocean City, N. J. — City Comn. plans boardwalk from 6th to 13th Sts. $350,000.

Hydro-Electric Project—Safe Harbor, Pa.—Pennsylvania Water & Power Co., 40 Wall St., New York City, making tentative plans hydro-electric project, incl. dam, hydro-electric plant, etc., on Susquehanna, here. $30,000,000.

Golf Course, Riding Stables, etc.—New Market, Va. — See "Buildings — Commercial."

Subway—Hattiesburg, Miss.—City making preliminary plans rein.-con. subway under Southern Ry. tracks in business district. $100,000. H. S. Pickernell, City Hall, engr.

Transfer Station — Detroit, Mich. — See "Buildings-Industrial."

Stadium—Little Rock, Ark.—City making preliminary plans rein.-con. stadium, Kavanaugh Field. $100,000.

Air Port Development—Pine Bluff, Ark.—Defeated $75,000 bonds, development air field, incl. grading, drainage, constructing hangars, etc.

Pipe Line—Texas and Colorado—Prairie Oil & Gas Co. (subsidiary Standard Oil Co. of New Jersey, 26 Bway., New York City), plans 365 mi. 20 or 22 in. pipe line from Amarillo, Tex., to Denver, Colo. $45,000-$55,000 per mile.

Gas Pipe Line—Texas—Dixie Gas & Utilities Co., Galveston, making plans approximately 80 mi. gas pipe line between Tyler, Palestine, Jacksonville and Rusk. $300,000. Private plans.

Land Development—San Antonio, Tex.—H. E. Dickinson, c/o Central Trust Bldg., made plans developing 360 acre plot for high-class sub-division north side of here, incl. grading, paving, incl. 100 ft. paved drives, $100,000; boulevard lighting system (equipment) $20,000; water distributing system, $40,000; and sewerage system, $50,000. Private plans.

Transmission Line—Oklahoma—City of Lambert voted $25,000 bonds, 12 mi. 13,200 volt transmission line from Lambert to Cherokee, and distribution system in Lambert. Engineer not announced.

Transmission Line—Oklahoma—City of Strong voted $25,000 bonds, 14 mi. 13,200 volt transmission line from Hammon, and distribution system in Strong. H. V. Jobe, Strong city clk. Engineer not selected.

Underpass — Tulsa, Okla. — City, H. F. Newblock, mayor, and Midland Valley R.R. Co., Muskogee, C. Kaighn, ch. engr., making preliminary plans rein.-con. underpass at intersection East 6th St. and Midland Valley R.R. tracks. $175,000.

Port Development — Seattle, Wash. — Comrs. Port Seattle making plans developing Skinner and Eddy Shipyard 2 site. $6,000,000. J. R. West, Seattle, engr.

Lighting System — Huntington Beach, Calif.—C. R. Furr, city clk., rejected bids Sept. 6, ornamental lighting system on Main St. Noted Aug. 25.

Asphalt Paving Plant—Oakland, Calif.—W. H. Parker, city comr. of streets, plans municipal asphalt paving plant, here. G. N. Randle, city engr.

Culverts—Ventura, Calif.—Ventura Co. plans concrete culverts on Berylwood Rd. $25,000. C. Petit, Ventura, co. surv.

Bids Desired

Gymnasium—Charleston, Me.—See "Contracts Awarded."

Culverts—New York—Nov. 1, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, 4 rein.-con. culverts along line of Conduit Blvd., Queens Co.

Athletic Field, etc.—Brooklyn, N. Y.—Nov. 1, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., general contract athletic field and grandstand, at Boys High School, Maple Ave. from Troy to Schenectady Aves., for Bd. Educ., 500 Park Ave., New York City.

Bath House—Mount Vernon, N. Y.—Nov. 9, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, constructing bath house at Wilson Woods Park, Contr. 142; plumbing for same, Contr. 142-P, here. J. Downer, ch. engr.; adv. E. N.-R. Oct. 27.

Dock Wall—Troy, N. Y.—Nov. 16, by Harbor & Dock Comn., City Hall, constructing 1,100 ft. dock wall along river front from lands of Ludlow Valve Co. to Madison St. J. Flynn, Jr., engr.; adv. E. N.-R. Oct. 27.

Storage Sheds—Waterford, N. Y.—Nov. 4, by A. W. Brandt, comr. Highways, Albany, storage sheds, here.

Tanks, etc.—Bayonne, N. J.—See "Contracts Awarded."

Municipal Pier Building — Bradenton, Fla.—Nov. 15, by City Council, municipal pier building. E. W. Darling, Jr., archt.; adv. E. N.-R. Oct. 27.

Contracts Awarded

Gymnasium — Charleston, Me.—Higghins Classical Institute, Charleston, will build 2 story, 60 x 100 ft., steel and brick gymnasium, by day labor. $25,000. V. Hodkins, 39 Hammond St., Bangor, archt.

Culvert—Malden (br. Boston), **Mass.**—Concrete culvert on Main St., to Coleman Bros., Inc., 245 State St., Boston, $42,000.

Plumbing — New York, N. Y. — Bd. Trustees Bellevue & Allied Hospitals, J. J. McGrath, pres., 415 East 26th St., plumbing work for additions and alterations to Fordham Hospital, Southern Blvd. and Crotona Park, to S. L. Snyder Co., 260 West 41st St., $146,500.

Tanks, etc.—Bayonne, N. J.—Gulf Refining Co., foot East 5th St., will build 6 steel tanks, refining still, and equipment, foot Oak St. and Ingham Ave., here. $76,500. Work will be done by separate contracts. Private plans.

Grade Crossing Elimination—Glen Rock (br. Ridgewood), **N. J.** — Erie R.R. Co., R. C. Falconer, ch. engr., 50 Church St., New York City, eliminating grade crossing at Maple Ave., here, to Parker & Graham, 5 Colt St., Paterson. Engrs. est. $150,000.

Swimming Pool — Carlisle, Pa. — See "Buildings—Educational, Religious."

Lighting System — Chicago, Ill. — City, Room 406, City Hall, entire electrical equipment for double leaf trunnion bascule bridge over South Branch Chicago River, on West Roosevelt Rd., to Norwood-Noonan Co., 450 West Superior St., $43,650.

Foundation, etc.—New Ulm, Minn.—See "Buildings—Educational, Religious" under Proposed Work.

Grain Elevator—Lubbock, Tex.—J. C. Whaley Interests plans 20 x 36 ft. grain elevator, 176 ft. high, incl. facilities for loading, dumping etc., to Jones Hettesater Constr. Co., c/o Mutual Bldg., Kansas City, Mo approximately $150,000.

Pier Shed—Oakland, Calif.—Port Comn., Grove St. pier, 1 story, steel and concrete, to Clinton Constr. Co., 37th Ave. and Alameda St., $187,340.

Wharf — St. Simon, N. B. — Dominion Govt., Ottawa, Ont., new wharf, to John McManus Co., Ltd., Memramcook, $25,245.

Wharf — Doucets Landing, Que. — Dominion Govt., Ottawa, Ont., new wharf, to Farley & Grant, Bank Material Bldg., Rideau St., Ottawa, Ont., $120,000.

Wharf—Sorel, Que.—Dominion Govt., Ottawa, Ont., reconstructing wharf, here, to Jackson Constr. Co., Ltd., Sorel, $29,500.

Grain Elevator—Vancouver, B. C.—Alberta Wheat Pool, Calgary, Alta., 2,500,000 bu. wheat terminal elevator, to I. W. Stewart, and Northern Constr. Co. Ltd., 736 Granville St., approximately $1,000,000. Noted Oct. 20.

Tanks — Aruba, Dutch West Indies — Angelo Mexicon Petroleum Co. Ltd. (Royal Dutch-Shell), 65 Bway., New York City, fabricating and erecting approximately 50 tanks, etc. at new refinery, here, to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill.

Materials

Bids Desired

Frogs, Crossings and Switches — Phila., Pa.—Nov. 1, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., frogs, crossings and switches, Contr. 120-1927.

Frogs, Switches and Switchpoints — Phila., Pa. — Nov. 4, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., frogs, switches and switchpoints, Contr. 12-1927; and guard rails, Contr. 123-1927.

Water Pipe—Chicago, Ill.—Nov. 1, by City, Room 406, City Hall, 210 tons 24 in. c.i. water pipe at Pipe Yard B, 3150 South Sacramento Ave. R. W. Wolfe, comr. Dept. Pub. Wks.

Lighting Posts and Cables—Forest City, Ark.—G. Naylor, mayor and City Council in market 60 "White Way" lighting posts and 1,100 ft. double conductor cable.

Lighting Posts and Cable—Bristow, Okla.—Mayor and City Council in market 100 "White Way" posts and 2 mi. armored cable.

Contracts Awarded

Snow Fence and Steel Posts — South Dakota—State Hy. Comn., Pierre, to Western Material Co., Sioux Falls, 10,000 ft. wood snow fence, f.o.b. to each Huron at $0.09 per ft., Mitchell $0.0956, Mobridge $0.101, Watertown $0.0952, and three thousand six hundred 7 ft. steel posts f.o.b. Aberdeen $0.3745; to Dennis Equipment Co., Sioux Falls, 10,000 ft. wood snow fence f.o.b. to Aberdeen $0.10, and Sioux Falls $0.085, and three thousand six hundred 7 ft. steel posts f.o.b. Mitchell $0.37, and Kadoka $0.40; also to N. J. Thompson Co., Sturgis, 10,000 ft. wood snow fence f.o.b. Pierre $0.0875, Kadoka $0.09, Rapid City $0.095, and Chamberlain $0.09.

See proposal advertising on page 124

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Grading for Chicago, Rock Island and Pacific Railway

Contract with Walter H. Dennison, dated July 2, 1926, for grading approximately 35 mi. of roadbed from Amarillo to Fritch, Tex., on the new Amarillo-Liberal Line.

For first 15 mi. north east of Amarillo—	
Earth excav. wasted or hauled into embankment, per cu.yd	$0.15
Earth embankment borrowed or hauled from cuts, per cu.yd	.15
For work beyond a point 15 mi. from Amarillo—	
For medium heavy work such as was shown on profile for miles 15 to 20:	
Earth excav. wasted or hauled into embankment, per cu.yd	$0.20
Earth embankment borrowed or hauled from cuts, per cu.yd	.1975
Loose rock excav., per cu.yd	.55
Solid rock excav., per cu.yd	.75
For what may be agreed upon as heavy work:	
Earth excav. wasted or hauled into embankment, per cu.yd	$0.225
Earth embankment borrowed or hauled from cuts, per cu.yd	.225
Loose rock excav., per cu.yd	.575
Solid rock excav., per cu.yd	.775
(As indicated above, all cuts hauled into fills will be paid for on the two-way basis.)	
All above prices are based on a 500 ft. free haul, haul beyond 500 ft. will be paid for per 100 ft. per cu.yd	.02
Clearing, grubbing and any extra work that may be ordered in writing, will be paid for at actual cost, (including cost of liability and compensation insurance) plus	10%

Engineering News-Record, Issue of October 27, 1927.

Pile Trestle for Chicago Rock Island and Pacific Railway

Contract with Austin Bridge Company, Dallas, Tex., dated March 7, 1927, for constructing pile trestle approximately 1,800 ft. long across the South Canadian River, near Fritch, Tex., on new Amarillo-Liberal Line.

(*a*) Erection of structural steel, per ton of 2,000 lb	$20.00
Driving piling, measured in the leads, not including false bents, per lin.ft	.32
Framing and placing timber, per M ft., BM	16.00
Laying railway track on bridge, per lin.ft	.75

(*b*) All other work not enumerated above shall be done on a force account basis, that is, actual cost of labor plus 15% for superintendence, use of tools and all machinery, and profit.

Engineering News-Record, Issue of October 27, 1927.

Retaining Wall—Detroit, Mich.

Bids were opened by Department of Parks & Boulevards, 600 Marquette Bldg., for constructing concrete retaining wall on wood piling at Memorial Park and Detroit River, from (A) Candler Dock & Dredge Co., 8145 Medina Ave., (awarded contract); (B) A. J. Dupuis, 1210 Ford Bldg.; (C) American Construction Co., Marion Bldg., Cleveland, O. The unit bids are as follows:

	A	B	C
610 cu.yd. excavation	$1.00	$1.00	$2.25
83 M.b.m. timber	100.00 150.00 120.00	230.00	294.00
15,505 lin.ft. wood piling	.67	.60	.93
43 M.b.m. wood sheet piling	100.00	150.00	157.00
640 cu.yd. concrete	16.00	25.00	17.25
7.8 ton reinf. steel	90.00	120.00	104.00
5 ton miscellaneous iron	160.00	160.00	300.00
Coffer dam (lump sum)	4,575.00	......	......
96 ft. 6-in. c. i. pipe	2.00	3.00	3.75
82 ft. 6-in. terra cotta pipe	1.00	1.00	2.10
470 ft. pipe guard rail	3.00	3.50	2.50
112 ft. post and chain guard rail	2.00	2.50	2.00
Totals	$41,849	$55,484	$62,227

Engineering News-Record, Issue of October 27, 1927.

Grading for Chicago, Rock Island and Pacific Railway

Contract with Walter H. Dennison, dated February 10, 1927, for grading approximately 19½ mi. of roadbed for extension of Amarillo-Liberal Line from Fritch to Stinnett, Tex.

PERMANENT LINE:	
Earth hauled from excav. into embankment, with extreme haul not to exceed 2 mi., per cu.yd	$0.42½
Solid rock hauled from excav. into embankment, with extreme haul not to exceed 2 mi, per cu.yd	1.00
Earth excav. borrow or waste, with free haul of 500 feet, per cu.yd.	.20
Loose rock excav., wasted, in connection with team work, per cu.yd.	.60
Solid rock excav., wasted, in connection with team work, per cu.yd.	.80
Steam shovel borrow at same price as steam shovel excav.	
Loose rock hauled into embankment in connection with team work	.80
TEMPORARY LINE:	
All team work to be paid both ways as follows:	
Embankment, per cu.yd	$0.20
Excav.—earth, per cu.yd	.20
Excav.—loose rock, per cu.yd	.60
Excav.—solid rock, per cu.yd	.80
Loose and solid rock to be paid for in embankment as *earth*.	
CONCRETE BOX CULVERT:	
Excav.—earth, per cu.yd	$0.75
Excav.—loose rock, per cu.yd	1.40
Excav.—solid rock, per cu.yd	2.50
Concrete, mixing and placing, including forms, per cu.yd	6.00
Reinforcing bars, cutting, bending and placing, per lb	.01½

The railway company will furnish all material, contractor to unload same at its own expense, but railway company will pay cost of hauling plus 10%.

Clearing, grubbing and any extra work that may be ordered in writing will be paid for (including cost of liability and compensation insurance) at actual cost plus 10%.

Engineering News-Record, Issue of October 27, 1927.

Road—Wyoming

Bids were opened by State Highway Department, Cheyenne, Sept. 30, (lowest three) for grading, miscellaneous work and construction of three timber bridges on 11.372 mi. of Kemmerer-Cokeville Road, Lincoln County, Federal Aid Project No. 193-B, from (A) Taggart Construction Co., Cody, (awarded contract); (B) Moneghan-Cunningham Construction Co., Denver, Colo.; (C) Wasatch Grading Co., Provo City, Utah. The unit bids are as follows:

	A	B	C
123,200 cu.yd. roadway excav. and emb., earth	$0.295	$0.265	$0.27
1,100 cu.yd. roadway excav. and emb., loose rock	.29	.65	.55
800 cu.yd. roadway excav. and emb., solid rock	.60	1.00	1.10
5,000 cu.yd. station overhaul	.04	.05	.04
792 lin.ft. timber piling driven	1.10	1.00	1.40
88 lin.ft. timber piling cut off	1.10	1.00	1.40
6 cu.yd. dry rubble masonry	5.00	16.00	12.00
2,584 lin.ft. unloading, hauling and placing C.M.P	.50	.50	.56
200 cu.yd. class B conc. endwalls	28.50	28.00	25.00
26.3 M.ft.b.m. bridge lumber in place	26.00	32.50	32.00
2,510 lb. bridge iron in place	.14	.16	.10
234 sq.yd. mastic wearing surface	1.60	1.75	2.50
50,200 lin.ft. moving right of way fence	.02	.06	.06
25,800 lin.ft. new right of way fence	.04	.05	.08
582 lin.ft. relaying c. m. pipe	.40	.50	.50
728 lin.ft. removing c. m. pipe	.40	.40	.30
Totals	$48,687	$48,831	$49,963

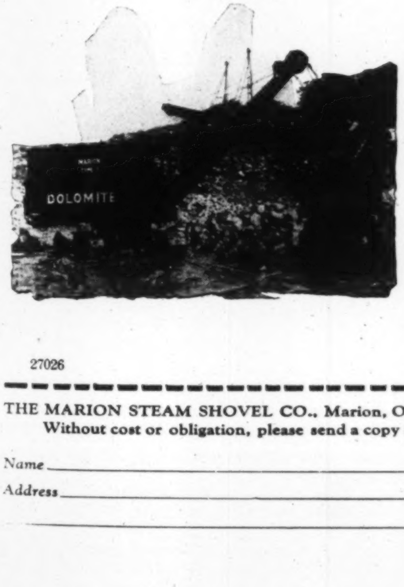
Engineering News-Record, Issue of October 27, 1927.

For additional construction costs read the Business Side of Construction each week

UNIT PRICES *Continued on page 224a*

MARION

Even the Rock of Gibraltar won't stall the engine on the ONE YARD TYPE 7 Gas-Electric—



OF course, the Type 7 won't move it either — but the engine which generates the electric power on the shovel — will keep on pulling — IT CAN'T BE STALLED. The hoist motor has the characteristics of the steam engine—high speeds for the light loads and low speeds for the heavy loads — a flexibility so essential to low maintenance costs, and smoother operation. It is the only gas driven shovel in the world with no troublesome clutches or other mechanical connection between the gas engine and the hoisting machinery. And, in addition, there are separate motors for direct driving of both the swinging and crowding motions. Get the whole story of this popular machine in Bulletin 319. Mail the coupon today.

THE MARION STEAM SHOVEL COMPANY
MARION, OHIO, U. S. A.

27026

THE MARION STEAM SHOVEL CO., Marion, Ohio, U. S. A.
Without cost or obligation, please send a copy of Bulletin 319 to

Write in this space the nature of your work

Name ______________________

Address ______________________

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Bridge—Akron, Ohio

Bids were opened by Department of Public Service, Bureau of Highways, May 26 for constructing superstructure, paving and walks, of East Exchange Street Viaduct, between Broadway and Grant Street, Contract No. 4, from (A) Blair-Ferguson Co., Cleveland, (awarded contract); (B) Stevens Construction Co., Cleveland; (C) T. E. McShaffrey Construction Co., Cleveland; (D) Rust Engineering Co., Pittsburgh, Pa. The unit bids are as follows:

	A	B	C	D
120 cu.yd. excav.	$1.40	$1.75	$1.50	$3.00
80,000 lb. reinf. steel	.0375	.045	.0475	.06
990 lb. copper expansion joints	.75	1.45	1.20	1.45
95 cu.yd. class A conc. (railings)	43.00	56.50	55.00	90.00
695 cu.yd. class B conc.—limestone agg	22.75	21.00	25.00	35.00
695 cu.yd. class B conc.—gravel agg	22.00	21.50	24.00	34.00
695 cu.yd. class B conc.—slag agg	22.25	20.50	24.00	34.08
5 cu.yd. class C conc.—limestone agg	15.00	13.50	22.00	35.00
5 cu.yd. class C concrete,—gravel agg	15.00	14.00	21.00	34.00
5 cu.yd. class C conc.—slag agg	15.00	13.00	21.00	34.00
977,000 lb. structural steel	.0404	.055	.0525	.055
62,200 lb. iron castings	.055	.066	.055	.07
80 lin.ft. 1½ inch galvanized pipe railing	3.00	2.53	2.25	2.25
13,500 sq.ft. waterproofing	.24	.08	.15	.13
1,750 sq.ft. damp proofing	.045	.07	.05	.06
4,400 sq.ft. gunite slabs	.63	.75	.78	.65
40,000 sq.ft. gunite encasement	.39	.51	.49	.57
1,750 sq.ft. gunite over blast plates	.63	.75	.50	.60
900 lin.ft. water mains	1.95	1.62	3.00	7.50
384 drilling anchor bolt holes and placing bolts	5.00	1.15	3.00	2.50
1,570 lin.ft. rail guards	.75	.58	.52	.60
2,000 cu.yd. grading	1.50	.46	.80	1.50
1,100 lin.ft. underdrainage (4 in. pipe)	.25	.25	.10	.25
200 lin.ft. inlet connections (12 in. pipe)	2.50	.74	1.00	2.50
2 manholes readjusted to grade	5.00	23.00	5.00	10.00
1 new manhole, frame and cover	7.00	23.00	18.00	24.00
10 lin.ft. manholes rebuilt	15.00	8.10	5.00	10.00
6 inlets, plan 1	35.00	28.75	25.00	50.00
1 Inlet, plan 3	50.00	36.88	35.00	70.00
1 inlet readjusted	15.00	17.25	20.00	50.00
1,000 lin.ft. sandstone curb, hand dressed, 6 in. x 18 in	2.00	1.44	1.45	1.70
35 lin.ft. granite curb (straight) 6 in. x 18 in	2.70	2.42	2.50	3.50
280 lin.ft. granite curb (circular) class A	3.40	3.60	3.20	3.50
300 lin.ft. sandstone curb redressed	.40	.46	.50	.60
300 lin.ft. curb reset	.50	.35	.50	.60
30 lin.ft. sandstone headers	1.15	1.75	1.00	2.00
5,230 sq.yd. concrete base, 6 in.	2.00	1.40	1.45	1.75
5,230 sq.yd. concrete base, 7 in.	2.15	1.65	1.65	2.05
5,230 sq.yd. concrete base, 8 in.	2.30	1.90	1.85	2.30
6,550 sq.yd. repressed brick pavement asphalt filler	2.45	2.40	2.35	2.70
1,085 sq.yd. repressed brick pavement inside cartrack	2.50	2.50	2.40	2.70
475 sq.yd. sheet asphalt pavement, plan A Trin	1.68	1.50	1.70	1.70
475 sq.yd. sheet asphalt pavement, plan A Tex	1.56	1.50	1.60	1.60
475 sq.yd. sheet asphalt pavement, plan A Mex	1.56	1.40	....	1.60
475 sq.yd. one course concrete pavement (8 in.) gravel	3.10	3.05	3.25	3.50
475 sq.yd. one course concrete pavement (8 in.) slag	3.30	2.80	3.25	3.50
475 sq.yd. one course concrete pavement (8 in.) limestone	3.40	2.95	3.40	3.70
125 sq.yd. brick pavement relaid	1.90	1.20	3.00	3.00
5,400 sq.ft. cement walk—2 course (3 in.)	.23	.185	.20	.24
8,900 sq.ft. cement walk—2 course (4 in.)	.27	.25	.24	.27
50 lin.ft. galv. iron pipe railing (2 in.)	3.00	2.60	2.50	3.00
4 conc. monuments	15.00	3.50	10.00	12.00
3 street signs acc. 5570	20.00	20.00	20.00	20.00
5,920 lin.ft. rails prepared with bit. strips	.18	.24	.17	.20
100 ton asphalt binder Trinidad	10.00	11.50	8.00	10.00
100 ton asphalt binder Texaco	9.00	11.50	7.00	9.00
100 ton asphalt binder Mexican	9.00	11.50	....	9.00
600 cu.yd. cinders	1.75	1.30	1.20	1.50
15 lin.ft. 4 in. W. I. drain	.70	1.15	.25	.75
750 porcelain markers, whole	.50	.50	.60	.60
100 porcelain markers, half	.30	.25	.30	.30
Totals: limestone aggregate for conc.—6 in. base	$141,543	$152,105	$153,244	$182,937
Totals: gravel aggregate for conc.—6 in. base	140,880	152,502	152,473	182,142
Totals: slag aggregate for conc.—6 in. base	141,148	151,684	152,473	182,142

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Los Angeles County, Calif., called for bids as follows: 475,000 cu.yd. River Wash excavation below el. 1,360 class 1; 875,000 cu.yd. open cut excavation, class 2; 3,250,000 cu.yd. mass concrete. There were three propositions, as follows: (1) contractor to furnish all concrete aggregates; (2) contractor and district each to furnish 50 per cent of aggregates; (3) district to furnish all aggregates. Following are the bids on proposition (1) and (3), as submitted by the following contractors: (A) MacDonald & Kahn, Financial Bldg., San Francisco, and Edwards, Wildey & Dixon, Los Angeles; (B) Utah Construction Co.; (C) John Griffiths Co.

	A	B	C
475,000 cu.yd. excav., deep	$0.98	$2.10	$2.50
875,000 cu.yd. excav., open	1.74	2.40	3.20
3,250,000 cu.yd. concrete	2.29	3.25	3.25
Concrete, Proposition No. 3	2.19	2.95	2.90
Total bids were respectively:			
(1)	$9,946,710	$14,440,807	$15,975,310
(3)	9,621,710	13,465,807	14,832,810
	$325,000	$975,000	$1,143,500

C. I. pipe, class 150 lb. at Compton, Calif.—3,359 ft. 4 in., 38c. per ft. and 1,830 ft. 8 in., 73.5c. per ft.

C. I. pipe in Chicago, 432 tons 12 in., $34 per ton.

Cement, New York, 4,000 bags, 62.5c. each; 250 tons asphalt cement, $22.73 per ton.

Constr. News page 224a

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Railroad station and terminal, Newark, N. J., Pennsylvania R.R. Co. had preliminary sketches made, $12,000,000.

Pipe line, Texas, Illinois Pipe Line Co. making plans, $5,000,000.

Store, Seattle, Wash., F. McDermott takes bids about Jan. 1, $5,000,000.

Bridge, Pennsylvania and New Jersey, Modjeski, Masters & Chase, engrs., take bids about Nov. 15, substructure, and about Dec. 20 for superstructure, $4,000,000.

Office building, Long Island City, N. Y., Realty Constr. Corp. will build, $4,000,000.

Pipe line, Texas, Magnolia Petroleum Co. making plans, $3,500,000.

Exchange, Des Moines, Ia., Northwestern Bell Telephone Co., plans exchange building, $1,000,000; and extensions, equipment etc., $2,800,000.

Levee, Louisiana, Orleans Levee Bd. making plans, $2,175,300.

Apartments, New York, N. Y., Six to Sixteen West 77th Street Corp., will build, $2,000,000.

Stadium, Chicago, Ill., South Park Comrs. having plans prepared, $2,000,000.

Seminary, St. Louis Missouri, Preparatory Diocesean Seminary raising fund, $2,000,000.

Warehouse, Camden, N. J., Terminal Corp. having plans prepared, $1,500,000.

Bridge, Phila., Pa., Dept. Pub. Wks. takes bids early in January, $1,500,000.

Office and hotel, Newark, N. J., Owner, c/o W. E. Lehman, archt., having plans prepared, $1,500,000.

Unit steam power plant, Texas, San Antonio Public Service Co. making plans, $1,500,000.

Apartment hotel, Cleveland, Ohio, Berkner Realty Co. having plans prepared, $1,500,000.

Sewage disposal plant, Aurora, Ill., Aurora Sanitary Dist. making plans, $1,183,000.

Hospital, St. Louis, Mo., St. Vincent De Paul Sisters of Charity, making preliminary plans, $1,000,000.

Hotel, Riverside, Calif., E. Lloyd, F. Nansen and associates, having plans prepared, $1,000,000.

Apartment building, Brooklyn, N. Y., Brooklyn Syndicate having plans prepared, $1,000,000.

Hotel, Kansas City, Mo., W. R. Jewell, having plans prepared, $1,000,000.

Hotel, New Orleans, La., Louise Realty Co. having plans prepared, $1,000,000.

Bids Desired

High School, Cleveland, O. Nov. 21, by Bd. Educ. $1,750,000.

High School, Chicago, Ill., Nov. 17, by Bd. Educ., $1,500,000.

Exchange, New York, N. Y., Dec. 1, by Voorhees, Gmelin & Walker, archts., for N. Y. Telephone Co., $1,500,000.

School, Somerville, Mass., City taking bids, $1,250,000.

High School, Providence, R. I., Nov. 14, by City, $1,000,000.

Contracts Awarded

Office building, Detroit, Mich., Smith, Hinchman & Grylls, archts. and engrs., to W. E. Wood Co. Archts. est. approximately $8,000,000.

Office building, New York, N. Y., Western Union Co. to Marc Eidlitz. Archts. est. $6,500,000.

Sewer, Chicago, Ill., Clerk, Sanitary Dist. of Chicago to Underground Constr. Co., $1,864,720.

Office building, Syracuse, N. Y., Syndicate, c/o Shreeve & Lamb, archts., to G. Richard Davis, New York City, Archts. est. $1,500,000-$2,500,000.

Bridge, Virginia, Eastern Virginia Bridge Co. to Winston Bros. Co. and H. H. Wilson, Harrisburg, Pa. Engrs. est. $1,250,000-$1,500,000.

College building, Brooklyn, N. Y. Brooklyn Law School of St. Lawrence University, to T. O'Reilly, New York City, Archts. est. $1,000,000.

Bank and office, Pasadena, Calif., Bennett & Haskill, archts., to J. V. McNeil Co., Los Angeles, approximately $1,000,000.

Apartment building, East Orange, N. J., Sixty Seven South Munn Avenue, Inc., to Corona Constr. Co., Newark, Archts. est. $1,000,000.

News of the Week

Waterworks

Proposed Work

Mass., Chatham—Plans new waterworks. To exceed $15,000. Engineer not selected.

Conn., Hartford—Plans 42 in. supply line from Reservoir 1 West Hartford, south through Ridgewood Rd. from Park Rd. to Prospect Ave., also 36 in. main from Prospect Ave. north to Park Rd. $500,000. C. M. Saville, 1026 Main St., Hartford, engr.

N. C., Durham—Plans 5 mi. 24 in. mains in various streets. $400,000. W. M. Piatt, Durham, engr.

N. C., Lenoir — Town retained Spoon, Lewis & Camp, Greensboro, and S. B. Howard, Lenoir, consult. engrs., to design and supervise construction improvements to water works, incl. filtration plant. Noted July 15.

Miss., Ripley—Making plans new waterworks. $50,000. H. A. Mentz, Hammond, La., engr.

Mich., Detroit—Dept. Water Supply making preliminary plans pumping equipment discharging into south end coagulation basins, incl. 2 electric driven units 240 m.g.d. against 37 ft. head, vertical pumps and synchronous motors. G. H. Fenkell, 176 East Jefferson Ave., engr.

Mich., Lansing — Making preliminary plans 75 m.g. water softening plant. Election Nov. 8, bond issue for same. Alvord, Burdick & Howson, 6 South Dearborn St., Chicago, Ill., engrs.

Ill., Highland Park—Making plans water filtration plant and pumping station. Pearse, Greeley & Hanson, 6 North Michigan Ave., Chicago, engrs. Noted Aug. 18 under "Sewers."

Wis., Kenosha—Takes bids about Feb. 1, 6 m.g.d. addition to filtration plant. Alvord, Burdick & Howson, 6 South Dearborn St., Chicago, Ill., engrs.

Minn., Minneapolis—Plans purchasing 30 m.g. pump at Fridley Pumping Station, 42nd Ave. N. E. and Marshall St. N. W. Elsberg, City Hall, engr.

Kan., Ft. Scott—Making plans improving waterworks. To exceed $5,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted June 16.

Neb., Callaway — Voted $20,000 bonds, waterworks. Nixon & Reynolds, Grain Exch. Bldg., Omaha, engrs.

Ark., Camden—Arkansas Power & Light Co. making preliminary plans new 10 in. discharge main in business district, 8 in. main from Chestnut to Grinstead Sts., and 400,000 gal. concrete reservoir, etc. $70,000. Private plans.

Tex., Boerne — Voted $75,000 bonds, waterworks, incl. distributing system and pumping unit. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Tex., Marathon—J. Allison made plans 13 mi. 4 in. mains on 45,000 acre ranch. $35,000. Private plans.

> *THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.*
>
> *Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.*

Tex., Sinton—Voted $8,000 bonds, purchasing pipe and pumping equipment for waterworks improvements. Address Mayor.

Tex., West Greenville (near Greenville)—Voted $65,000 bonds, waterworks. Address W. H. Cassell, mayor.

Okla., Cheyenne — Plans waterworks. $28,000. C. A. Wood, Stillwater, engr.

Okla., Purcell—Making preliminary plans water supply, incl. impounding reservoir, dam, pipe line, filter plant and equipment, etc. $90,000. Horner & Wyatt, 408 Bd. Trade Bldg., Kansas City, Mo., engrs.

Ore., Forest Grove—Voted $56,000 bonds, waterworks.

Calif., Stockton—San Joaquin Co. rejected bids Oct. 19, waterworks at Brete Harte Sanitarium.

Calif., Los Angeles—Edwards & Wildey Co., 609 South Grand Blvd., plans waterworks, incl. piping, tanks, reservoirs, pumping plant, etc., for sub-division. To exceed

Bids Desired

N. Y., Brooklyn — Nov. 11, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenues M and T, Atlantic, Bedford, Dumont, 21st and 23rd Aves., West, East 2nd, East 7th, East 12th Sts., etc., here.

N. Y., Long Island City—Nov. 4, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 36th, 41st, 56th, Myrtle and Woodbine Aves., Crescent, 42nd, 59th, 60th Sts., etc., here.

N. Y., New York—Nov. 11, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Allerton, Arnow, Barker, Brinsmade, Givan and Grace Aves., etc., Bronx Boro.

N. Y., Sonyea—Nov. 30, by Dept. Mental Hygiene, Capitol, Albany, water lines and standpipe at Craig Colony, here. L. M. Farrington, secy.; adv. E. N.-R. Nov. 3.

Fla., Melbourne—Nov. 14, by W. K. Seitz, city mgr., 82,000 ft. 6- to 12-in. Class "B" or equivalent; c.i. pipe, 120 steamer hydrants; and ninety-six 6- to 12-in. gate valves, f.o.b. Melbourne. A. W. Howard, city engr.

Tenn., Nashville — Nov. 8, by Bd. Pub. Wks., pumping unit, incl. 75 hp. engine and centrifugal pump. G. H. Reyer, City Hall, supt. Waterworks.

O., Cleveland — Nov. 9, by Bd. Comrs. Cuyahoga Co., 4,600 ft. 6 and 8 in. c.i. mains in Worton Blvd., Impvt. 371; and 22,000 ft. 6 and 12 in. in Wooster Pike, Impvt. 1551. To exceed $50,000. F. Williams, Court House, engr.

Mich., Detroit—Nov. 16, by Bd. Water Comrs., 176 East Jefferson Ave., 40 m.g.p.d.

See proposal advertising on page 152

TRADE

"LEADITE"

MARK

Registered U. S. Pat. Office

Waterworks engineers and superintendents prefer to use Leadite for joints—*It assures them that the pipe line will be completed and a revenue producer well within the time allowance.*

THE speed and simplicity of use of Leadite is a big factor in rapidly expanding communities.

This illustration shown here is a scene from an installation where Leadite was used with c. i. bell and spigot pipe.

These lines are in one of the fastest growing cities in the South. The speed of Leadite jointing makes it possible to lay pipe fast enough to keep up with the new building and real estate expansion.

In addition, Leadite joints are permanent. For over 30 years Leadite has been tested and used under all pipe laying conditions and has proven completely satisfactory.

The saving of labor time and advantages of using Leadite produce a saving of over 75% of the cost of making the joints.

Benefit by the experience of thousands of engineers, superintendents and contractors who have used Leadite.

Specify
and use
LEADITE
It saves at least 75%

Be sure
it is
LEADITE
and accept
no imitations

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years

THE LEADITE COMPANY
Land Title Building - - Philadelphia, Pa.

NO CAULKING

Waterworks (Continued)

electric motor driven centrifugal pumping unit with auxiliary equipment. G. H. Fenkell, genl. mgr. and ch. engr., adv. E. N.-R. Nov. 3.

Mich., Royal Oak (Ind. br. Detroit)—Nov. 14, by R. B. Fleming, city clk., 211 East 3rd S ts., excavating and laying approximately 12,500 lin.ft. 48 in. c.i. or steel mains in Liverolds Ave., etc. B. J. Whitney, city mgr.; adv. E. N.-R. Nov. 3.

Ill., Chicago—Nov. 8, by City, Room 406, City Hall, 10 steel filter tanks at Experimental Filtration Plant, 69th St. and Oglesby Ave. R. W. Wolfe, comr. Pub. Wks.

Wis., Osseo—Nov. 16, by J. W. Smith, village recdr., drilling 8 or 10 in. well, 250 to 300 ft. deep. Druar & Milinowski, Globe Bldg., St. Paul, Minn., engrs. Noted Oct. 27 under "Sewers."

Ont., Hamilton—Dec. 7, by S. H. Kent, city clk., at office F. F. Treleaven, chn. Bd. Control, City Hall, steam turbine-driven or Diesel engine driven centrifugal pump and accessories for waterworks extensions. W. L. McFaul, city engr.

Bids Received

Wash., Aberdeen—C. A. Watkins, supt. Water Dept., (1st unit) concrete lined tunnel and sinking 2 shafts, one 60 ft. and other 180 ft. deep for new industrial water system on lower Wynooche, from Siems-Carlson Co., Portland, Ore. $550,000. Engrs. total est. $1,600,000. Noted Sept. 15.

Contracts Awarded

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenue T, Debevoise, Greene, Highland Aves., etc., here, to N. DiStefano, 257 Glenn Ave., Tompkinsville, $12,300. Noted Oct. 13.

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 19th and Steinway Aves. etc., here, to Palladino Contg. Co., 1479 Park Ave., New York City, $9,847; and in 21st, 32nd and 54th Aves., etc., to Gregory Contg. Co., 351 East 124th St., $8,699. Noted Oct. 20.

N. J., Newark—North Jersey Dist. Water Supply Comn., 24 Commerce St., wire fence around Wanaque Reservoir, to Atlas Fence Co., Inc., 37 Verona Ave., Newark, $83,923. Noted Aug. 25.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, Contr. 806, to Keystone State Piping & Constr. Co., 746 East Venango St., $9,467; Contr. 901, to Acme Machine Co., 27 North 38th St., $13,000; Contr. 903, to A. P. Smith Mfg. Co., East Orange, N. J., $14,520; grand total $36,987. Noted Oct. 13.

Pa., Pittsburgh — City Controller, City County Bldg., McNaugher Reservoir, rein.-con., 600,000 gal. capacity, Lafayette St., to Pitt Constr. Co., Empire Bldg. $142,495. Engrs. est. $180,000. Noted Oct. 6.

Md., Rock Hall—Mayor and Councilmen, installing mains and appurtenances, to Standard Constr. Co., Baltimore, $5,042; erecting 75 m.g. tank and tower, 75 ft. high, to Pittsburgh Des Moines Steel Co., 50 Church St., New York City, N. Y., $5,110; also supplying and installing pumping equipment, to Baltimore Machine Wks., 111 South Paca St., Baltimore, $625. Grand total $10,777. Noted Oct. 13.

Fla., Bradenton—City Council, drilling and completing 12 in. well, approximately 800 ft. deep, to Virginia Mchy. & Well Co., 1319 East Main St., Richmond, Va. Noted Sept. 15.

Michigan—D. W. Beauvais, clk. Ira Twp., Anchorville, complete waterworks, incl. mains, hydrants, pumping station and storage tank in Anchorville, Fair Haven and New Baltimore, to M. B. Gessner Co., Toledo, O., approximately $100,000. Noted Sept. 8.

Mich., Detroit—Dept. Pub. Wks., 4 complete units pumping electrically driven, for pumping sewerage Connors Creek Pumping Station, Jefferson and Clairpointe Aves., to Worthington Pump & Mchy. Corp., 115 Bway., New York City, N. Y., $153,734. Noted Aug. 11.

Mich., Detroit — Bd. Water Comrs., 176 East Jefferson Ave., 10,000 g.p.m. electrically operated centrifugal pumping unit, to Worthington Pump & Mchy. Co., 115 Bway., New York City, N. Y., $7,953. Noted Sept. 15.

Mich., Pontiac—Approximately 1 mi. 6 in. c.i. mains in LeBaron Subdivisions, to R. Rozario, Pontiac, $15,650.

Ill., Niles Center—For 6- to 12-in. c.i. mains in Harmswood St., to H. Rees & Sons, Mt. Prospect, $70,282, water stubs in Howard and Oakton Sts., to G. Hardin, 3139 Indiana Ave., Chicago, $81,244.

Kan., Irving—For 7,600 ft., 2- to 6-in. c.i. mains, 15 fire hydrants, 12 gate valves and boxes, to Roy Knox Constr. Co., Clifton, $15,340. Engr. est. $25,000.

Montana and North Dakota—Northern Pacific Ry. Co., H. E. Stevens, ch. engr., St. Paul, Minn., general contract 14 water softening plants and equipment in Montana, and 9 in North Dakota, to E. J. Dunigan, 1012 Builders Exch. Bldg., St. Paul, Minn. Engrs. est. $300,000.

Okla., Alva—T. Keltch, city clk., new 19,800 ft. 12 in. flow line from wells to here, to G. M. Roebeck, Omaha, Neb., $43,159. Engrs. est. $60,000.

Okla., Marshall—Extending waterworks, incl. well, triplex pump and motor, also 12,500 ft. 4- to 8-in. c.i. mains, to Sherman Iron Wks., 18 East Main St., Oklahoma City, $23,780. Engrs. est. $25,000. Noted Oct. 6.

Okla., Rocky — New waterworks, incl. 8,700 ft. 4 and 6 in. c.i. mains, 50,000 gal. tank on tower, 40 g.p.m. pump and motor, etc., to E. W. Baker & Co., Perrine Bldg., Oklahoma City, $18,600. Engrs. est. $21,000. Noted Sept. 15.

Colo., Denver—Bd. Water Comrs., 1509 Cleveland Pl., 660 ft. 36 in. rein.-con. pipe laid in trench, to Locks Point Pipe Co., 1716 California St. at $10.25 per ft. Noted Oct. 13.

Ore., Burlington (Holbrook P. O.) — H. L. Gilbert, engr., 313 Couch Bldg., Portland, waterworks, here, for City, to Keating & Bade, Portland, $29,595. Engrs. est. $37,500.

Calif., San Francisco — Bd. Pub. Wks. taking bids auxiliary waterworks from 25th and Harrison Sts. to Evans Ave. and Rankin St. M. M. O'Shaughnessy, city engr.

Que., Beauharnois—Town, filtration system, to G. Archambault, 1584 Clarke St., Montreal, $70,000.

Sewers

Proposed Work

O., Hamilton — Making plans sewers in approximately 2¾ mi. River Rd., Hooven, Clinton, Chase, Carwin, Greismer, Pleasant and Fair Aves., $65,000; also sewers in Chestnut St. from 7th to 8th Sts., 8th St. from Chestnut to Rigdon Sts., and 9th St. from Walnut and Ridgon Sts., $3,823. W. Willard, Hamilton, engr.

Ill., Alton — Making preliminary plans complete sewerage system in Shields Valley Sanitary Dist. $60,000. J. E. Schwaab, City Hall, engr.

Ill., Aurora—Aurora Sanitary Dist. making plans and takes bids about Jan. 1, sewage disposal plant and intercepting sewers in various streets. $1,163,000. Alvord, Burdick & Howson, 6 South Michigan St., Chicago, engrs. Noted Sept. 29.

Ill., Hinsdale—Hinsdale Sanitary Dist. making plans sewage treatment plant. Pearse, Greeley & Hanson, 6 North Michigan Ave., Chicago, engrs.

Ia., Maxwell—Takes bids in November or December, sewage disposal plant, 58 manholes, lift station, 18,000 ft. 8 in. and 2,500 ft. 10 in. sewer pipe, etc. $35,000. Currie Eng. Co., Webster City, engrs. Noted Aug. 11.

Mo., Independence — Kansas City Independence Sewer Dist. making plans sanitary sewers covering 5,100 acres, incl. Independence, Englewood and Mt. Washington. $800,000. E. T. Archer & Co., and C. A. Hawkins, 609 New England Bldg., Kansas City, engrs.

Mo., St. Joseph — Making preliminary plans main sewer in 24th and Felix Sts., $34,000; 1,505 ft. 24 in. rein.-con. and 750 ft. 24 in. vitr. clay sewers in Smith St., $10,800; also 617 ft. 30 and 36 in. rein.-con. and 3,438 ft. 24 in. vitr. clay sewers, etc. in 9th and Pacific Sts., $99,000. W. M. Spann, City Hall, engr.

Tex., Sinton — Voted $25,000 bonds, sewers in various streets. Address Mayor.

Tex., Sonora—Voted $45,000 bonds, sewerage system. Address City Secretary, Sonora. Municipal Eng. Co., 1107 Athletic Club Bldg., Dallas, engrs.

Okla., Oklahoma City—Plans 20,100 ft. 10 and 12 in. sewers in Lincoln Terrace Addition. $37,000. B. M. Hart, City Hall, engr. Noted Feb. 17.

Okla., Picher—Defeated $66,000 bonds, sewerage system. Noted Sept. 8.

Calif., Lemoore—Made plans 50 lin.ft. 8 in. and 6,635 ft. 15 in. vitr. outfall sewer, also pumping plant, etc. C. C. Kennedy, Call Bldg., San Francisco, engr.

Ont., Hamilton—Plans extending sewers and overflow sewer in Wentworth St. Dist. $383,000. W. L. McFaul, City Hall, engr. Noted May 12.

Bids Desired

N. Y., Long Island City—Nov. 7, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sanitary sewer used temporarily for removing limited amount storm water in 218th St.; sewers in 164th (24th) St., Burrough Pl., 115th, Meyers, Fairbanks, and 32nd (Myrtle) Aves.

N. Y., New York—Nov. 10, by J. Miller, pres. Manhattan Boro, Municipal Bldg., sewer in Overlook Terrace from West 186th to West 187th Sts.

N. Y., St. George — Nov. 9, by J. A. Lynch, pres. Richmond Boro, Boro Hall, temporary sewer in Marine Way from Roma to Finley Aves.

N. C., Durham—Nov. 16, by City Council, outfall sewerage system, 5.5 mi. 10- to 18-in. vitr. terra cotta and 240 tons c.i. pipe and fittings, 30 tons reinforcing, disposal plant, Imhoff tank, sludge drying beds, etc. $160,000. R. W. Rigsby, city mgr.

N. C., Durham—Nov. 17, by City Council, sewage disposal plant, incl. grit and screen chamber, clarifiers, sludge digesters, approximately one acre trickling filters, pumping equipment, and incinerator. $170,000. R. W. Rigsby, city mgr.

O., Cleveland — Nov. 9, by Bd. Comrs. Cuyahoga Co., 3,800 ft. 8- to 24-in. tile block sewer in Worton Blvd., Impvt. 321. R. F. Williams, Court House, engr.

O., Mansfield—Nov. 17, by City, 15,600 ft. 8- to 12-in. sewers, etc., in various streets. W. C. Statler, city engr.

O., Toledo—Nov. 22, by W. B. Guitteau, dir. Pub. Serv., Safety Bldg., sewage pumping station and equipment, Contr. 20. H. P. Jones & Co., 1601 2nd Natl. Bank Bldg., engrs.; adv. E. N.-R. Nov. 3.

Ind., Elkhart — Nov. 22, by Bd. Pub. Wks., sewer improvements. Burns & McDonnell Eng. Co., Kansas City, Mo., engrs.; adv. E. N.-R. Nov. 3. Noted Sept. 29.

Mich., Detroit — Nov. 9, by Dept. Pub. Wks., Detroit River Interceptor Sect. 6, in Franklin and Woodbridge Sts., 4,900 ft. monolithic concrete in tunnel, 14 ft. diam., 16- to 20-in. wall, etc. $300,000. P. A. Fellows, city engr. Noted Oct. 27.

Neb., Havelock — Nov. 9, by Trustees Sanitary Dist. 1, extending North Havelock Outlet Sewer. Scott & Scott, 427 Bankers Life Bldg., Lincoln, engrs. Noted Oct. 13.

Tex., Houston—Nov. 9, by O. F. Holcombe, mayor, sewer in Shepherd Dr. from Westheimer Rd. to Buffalo Bayou. $175,000. J. C. McVea, city engr.

Okla., Anadarko—Nov. 7, by E. Allen, city clk., 21,600 ft. 6- to 10-in. sewers in various streets. $25,000. C. Riggins, Anadarko, engr. Noted Aug. 18.

Calif., Los Angeles — Nov. 9, by Los Angeles Co. Sanitation Dist. 5, 7,802 ft. 8- to 12-in. vitr. or machine made concrete trunk sewer in Rosecrans Ave. A. K. Warren, Law Bldg., engr.

Contracts Awarded

Conn., Hamden (br. New Haven)—For 27,000 ft. sewers in Highwood Section, to Lane Constr. Co., 37 Colony St., Meriden, $42,015.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to J. Gallo, 169-10 State St., Flushing, sewer in Skillman Ave. $5,860, Laurel Hill Ave. $1,914, 64th St. $4,166, 77th St. $3,148, 107th Ave. $3,275 and 138th St. $4,665; to Kennedy & Smith, Bradford St., Flushing, 212 St. $3,487, Van Alst Ave. $3,222, and Halle Ave. $1,112; to Flushing Contg. & Eng. Co., 66 Wyoming Ave., Hollis, 85th Ave., $751; to P. J. Greenough, 9919 Guylford Ave., Forest Hills, 27th St., $7,600; and to E. J. Kelly, Jr., 138th St., $5,300. Grand total $44,500. Noted Oct. 13.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in 77th St., to J. H. Johnson, 37 Britton Ave., Elmhurst, $4,414; Jamaica Ave. and 212th St., to Winfield and Franklin, 221-60 92nd Ave., Queens Village, $4,707 and $3,128 respectively. Grand total $12,249. Noted Oct. 20.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Barnes Ave. and East 159th St., to A. Gregorio & Co., 1121 Neil Ave., $11,330 and $43,065 respectively.

N. Y., Syracuse — Bd. Contr. & Supply, City Hall, sewer in Comstock Ave., to Birc & Street Bros., Wieting Bldg., $35,358.

Ala., Birmingham—For 12 blocks sewer covering Collegeville section, negro suburb, to J. O. Taylor, 3416 Willow Ave. S., $131,798. Engrs. est. $134,000.

O., Lakewood (br. Cleveland) — For Edgewater Intercepting Sewer, 5,100 ft. 48 in. Anco block pipe, to Randall-Cooper Co., Lorain, $125,798. Noted Mar. 3.

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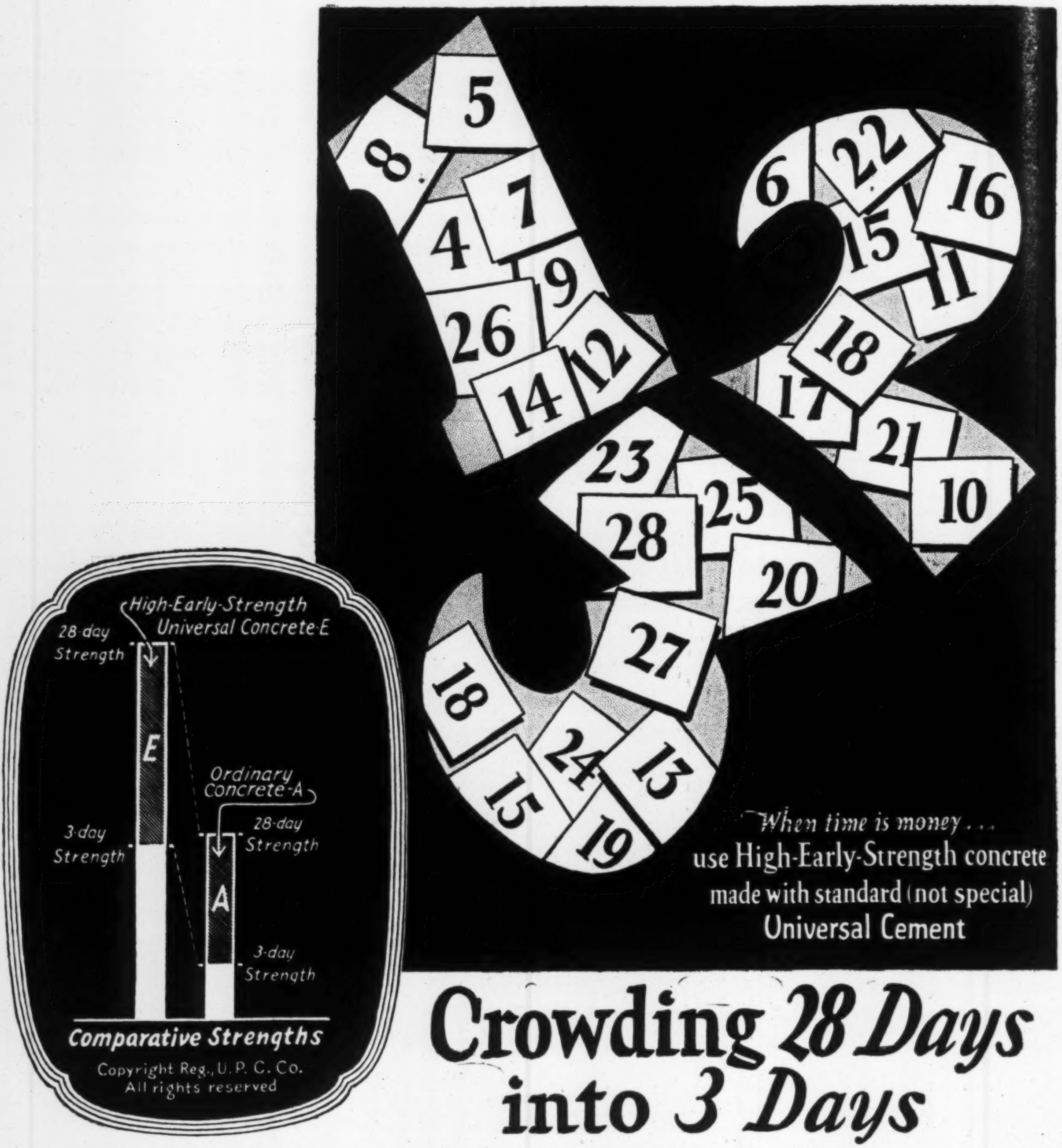
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UNIVERSAL PORTLAND CEMENT CO.
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Without obligation, please send me detailed information on methods for securing strong concrete in 3 days with the usual materials.

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Sewers (Continued)

Mich., Pontiac—City and Oakland Co., 1,850 ft. 72 in. rein.-con. drain to Yellow Truck & Coach Mfg. Co. plant, to Bartling & Dull, 635 South Jessie St., $45,615.

Ill., Chicago—M. J. O'Brien, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., Salt Creek Intercepting Sewer, Contr. 2, to Underground Constr. Co., 130 North Wells St., $1,864,720. Noted Sept. 16.

Ill., Niles Center—Sewer stubs in Howard and Oakton Sts., to O'Brien Bros., 152 North Central Ave., Chicago, $56,539.

Mo., Moberly—Complete sewage disposal plant, incl. grit chamber, clarifier, digestor bed, pumping equipment, etc., to Lynch-McDonald Constr. Co., Moberly, $32,500. Engrs. est. $32,559. Noted Sept. 29.

Mont., Great Falls—For 6,845 lin.ft. 30 and 36 in. pre-cast concrete sewers in various streets, to Nilson & Smith, Great Falls, $44,315.

Okla., Marshall—For 22,600 ft. 6- to 12-in. vitr. clay sewerage system, incl. disposal plant, Imhoff tank, etc., to Sherman Iron Wks., 18 East Main St., Oklahoma City, $46,475. Engrs. est. $50,000.

Ore., Gladstone — Constructing West Gladstone Sewerage System, to Settergren Bros. & Lind, Worcester Bldg., Portland, $49,327. Engrs. est. $65,000.

Calif., Los Angeles — Los Angeles Co. Sanitation Dist. 5, sewer between Western Ave. and junction with joint outfall sewer, to Fredrickson & Watson, 354 Hobart St., Oakland, $237,682.

Waste Disposal

Contracts Awarded

N. J., Point Pleasant—Bd. Town Council, general contract septic tank, etc., Central Ave., to S. S. Thompson & Co., Inc., Red Bank. Engrs. est. $150,000. Noted Sept. 29.

Bridges

Proposed Work

Pennsylvania and New Jersey—Modjeski, Masters & Chase, engrs., 1420 Walnut St., Phila., take bids about Nov. 15, sub-structure Tacony-Palmyra Bridge over Delaware River; and about Dec. 20, superstructure for same bridge. $4,000,000.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, Div. of Bridges, takes bids early in January, Henry Ave. Bridge, masonry arch type over Wissahickon Creek, in Fairmont Park. $1,500,000. Modjeski & Chase, 1420 Walnut St., engrs. Noted Sept. 22.

Pa., Phila.—Takes bids in December or January, viaduct over Phila. & Reading R.R. tracks. $500,000. Modjeski, Masters & Chase, 1420 Walnut St., engrs.

Ga., Fitzgerald—E. M. Elliott & Associates, 3628 West 64th Pl., Chicago, Ill., plan rein-con. toll bridge across Okmulgee River, near here. $250,000. Noted July 7.

Miss., Biloxi—Harrison Co. (Gulfport) and State Hy. Dept., Jackson, soon take bids approximately 6,800 ft. rein.-con. and steel bridge, 20 ft. over Biloxi Bay, on Biloxi-Ocean Springs Rd., here. $600,000.

Mich., Mt. Clemens—Macomb Co. plans one span new bascule or swing bridge over Clinton River, on Jefferson Ave. $100,000. W. J. Lehner, Ulrich Bank Bldg., co. engr.

Ark., Augusta—State Hy. Comn., Little Rock, made preliminary plans rein.-con. and steel toll bridge over White River, here. Harrington, Howard & Ash, 1012 Baltimore St., Kansas City, Mo., consult. engrs.

Ark., Fulton—State Hy. Dept., Little Rock, plans rein.-con. bridge over Red River, here. $660,000. I. G. Hedrick, Inc., Shreveport, La., consult. engrs.

Tex., Austin—See "Streets and Roads."

Tex., Corsicana—See "Streets and Roads."

Tex., Galveston — Gulf Coast Dredging Co., 2311½ Ave. C, making plans creosoted pile and timber bridge, 80 ft. clearance between fenders over West Galveston Bay from Island side to Pelican Island. $150,000. J. E. Jacobson, 2311½ Ave. C, engr. Noted Oct. 13.

Tex., Quanah—See "Streets and Roads."

Oklahoma — State Hy. Dept., Oklahoma City, making preliminary plans 3 span 375 ft. steel truss bridge on piers over Illinois River, near Tallequah, Cherokee Co., $60,000; and 4 span 140 ft. rein.-con. bridge over Sallisaw Creek, on State Highway 17, Marbie City, Sequoyah Co., $35,000. C. R. Mandigo, Capitol, Oklahoma City, engr.

California—State Hy. Dept., Sacramento, rejected bids, Oct. 10, rein.-con. bridge over Aliso Creek, Orange Co. Noted Sept. 29.

Bids Desired

N. J., Newark — Nov. 16, by State Hy. Comn., Trenton, constructing bridges, retaining walls and other structures, in portions Sect. 13, Route 1 extension, Essex Co., here. Former bids rejected. A. L. Grover, secy.; adv. E. N.-R. Nov. 3. Noted Oct. 6.

Alabama—See "Streets and Roads."

Iowa — Nov. 15, by State Hy. Comn., Ames, **(F. A. P. means Federal Aid Project, and B. P. Bridge Project)**, two 20 x 20 ft. truss spans and two 120 x 20 ft. high truss approaches on B. P. 30, Boone Co.; 120 x 20 ft. high truss bridge with two 40 ft. I-beam approaches, and two 160 x 20 ft. high truss span bridge with two 40 x 20 ft. I-beam approach spans to each high truss on B. P. 313, Henry Co.; one 32 x 24 ft. and 40 x 24 ft. I-beam, and 40 x 24 ft. concrete bridges, also 50 culverts and extensions on B. P. 302, Iowa Co.; 120 x 20 ft. high truss bridge and 30 culverts on F. A. P. 169, Madison Co.; 150 x 20 ft. high truss bridge with six 40 x 20 ft. I-beam approach spans, also 19 culverts on B. P. 69, O'Brien Co.; 3 span 40 x 24 ft. skew deck girder bridge, also 10 culverts and extensions on B. P. 555, Worth Co.; widening 32 x 18 ft. I-beam bridge to 24 ft. roadway, etc., on F. A. P. 280, Pottawattamie Co. R. F. White, ch. highway engr.

Ont., Ottawa — Nov. 12, by Secretary Federal Dist. Comn., 53 Queen St., steel superstructure for bridge over Ottawa River. $100,000. A. Stewart, 53 Queen St., supt.

Contracts Awarded

Mass., Cambridge (Boston P. O.) — Rebuilding 3rd St. bridge, concrete, over Broad Canal, to J. M. Tobin, 40 Central St., Boston, $25,455.

New York—T. F. Farrell, comr. Canals & Waterways, Albany, removing existing bridges and constructing highway crossing at 5 locations on Erie Canal, Madison Co., to Stowell Constr. Co., 800 Canal St., Syracuse, $26,927.

New York and New Jersey — J. E. Ramsey, ch. executive office, Port Authority, 75 West St., New York City, constructing concrete decks of Outerbridge Crossing over Arthur Kill, between Tottenville, N. Y. and Perth Amboy, N. J., to Cornell Contg. Co., Grand Central Terminal, New York City, $626,730; and Elizabeth-Howland Hook Bridge between Elizabeth, N. J. and Howland Hook, N. Y., to A. A. Volk Co., 1819 Bway., New York City, $478,650. Noted Oct. 27.

N. J., New Brunswick—Middlesex Co., Bridge 190, concrete encased, half through plate girder over South River, on South Amboy-Bordentown Rd., here, to Gust Wickberg & Sons, Perth Amboy, $43,000. Noted Oct. 13.

Pa., Duquesne — Allegheny Co., Court House, Pittsburgh, constructing piers, west abutment, west approach filling and temporary viaduct over Thompson Run, to Pitt Constr. Co., Empire Bldg., Pittsburgh, $96,465. Engrs. total est. $900,000.

Pa., New Kensington—See "Streets and Roads."

Virginia — Eastern Virginia Bridge Co., C. M. Ward, pres., 2314-A Grove St., Richmond, 1 mi. steel bridge over York River from Yorktown to Gloucester Point, to Winston Bros. Co., and H. H. Wilson, Harrisburg, Pa. Engrs. est. $1,250,000-$1,500,000.

Ala., Mobile — Alabama State Docks Comn., W. L. Sibert, chn., creosoted timber and steel viaduct across series railraod tracks, in northern section city, to J. W. Gilbert, 505 Canal St., $66,586. Noted Oct. 13.

O., Cincinnati—C. O. Sherrill, city mgr., City Hall, 100 ft. span steel viaduct, Elmhurst Pl., to R. Runck, 1411 1st Natl. Bank Bldg., $29,050. Noted Oct. 27.

O., Columbus—W. H. Duffy, dir. Pub. Serv., repairing North High St., viaduct, to Fritz-Rumer-Cooke Co., 209 South High St., $64,330. Noted Feb. 3.

O., Dayton — Montgomery Co., Court House, 250 ft. span steel through truss highway bridge with rein.-con. abutments, etc. over Stillwater River, on Siebenthaler Ave., near here, to Wiley Constr. Co., Ludlow Arcade, $98,832. Noted Sept. 22.

Ill., Chicago—City, Room 406, City Hall, 200 x 62 ft. substructure for trunnion bascule bridge with 38 ft. roadway over Calumet River, on 106th St., to Fitzsimons & Connell Dredge & Dock Co., 10 South LaSalle St., $394,415. Engrs. est. $490,000. Noted Aug. 18.

Wisconsin — State Hy. Comn. and A. Weishapple, comr. Pepin Co., 213 South Barstow St., Eau Claire, to J. E. Hinman & Son, Glenwood City, constructing Barron Bridge $13,258; Buchanan Bridge $14,725; Miles Bridge $5,400; and Bauer Bridge $2,160. Grand total $30,543. Noted Oct. 13 under "Streets and Roads."

Iowa—State Hy. Comn., Ames, two 200 x 20 ft. high truss spans with two 80 x 20 ft. pony truss approach spans on U. S. Highway 61, Bridge Project 77, Des Moines Co., to Minneapolis Bridge Co., 924 Metropolitan Life Bldg., Minneapolis, Minn., $79,500; one 70 x 20 ft. pony truss bridge to C. J. Kramme, Ft. Dodge, $9,549, also one 20 x 24 ft. concrete slab bridge, and 6 culverts on Primary Road 7, to T. F. Matson, Goodell, $5,735, both Project 537, Guthrie Co., one 60 x 20 ft. pony truss bridge with two 32 x 20 ft. I-beam approach spans on U. S. Highway 30, Bridge Project 14, Harrison Co., to G. W. Condon, 415 Farnam St., Omaha, Neb., $17,275; one 32 x 24 ft. I-beam bridge, concrete flooring and wood structures on Primary Road 141, Bridge Project 2, Woodbury Co., to Humphrey & Son, Cherokee, $2,990; also 5 culverts and 4 culvert extensions on U. S. Hghway 32, Project 537, Cedar, Scott and Muscatine Counties, to L. Peterson, Cedar Rapids, $3,570. Grand total $118,619. Noted Oct. 13.

Kan., Morganville—Clerk Clay Co. (Clay Center), three 120 ft. span bridge with two 35 ft. I-beam approaches over Republican River, near here, to Finley-Butt Constr. Co., Nebraska City, Neb., $60,162. Engrs. est. $66,000.

Kan., Seneca—See "Streets and Roads."

Neb., Hershey—T. Lowe, Jr., clk. Lincoln Co., Court House, North Platte, nine 75 ft. pony truss span bridge over Platte River, near here, to General Constr. Co., 722 Peters Trust Bldg., Omaha, $42,278; approach and willow mattress, etc., for above bridge to David Scott & Sons, North Platte, $13,408. Noted Sept. 22.

Ark., Dardenelle—State Hy. Comn., Little Rock, steel and rein.-con. bridge over Arkansas River, on Federal Aid Project 244-A, here, Pope and Yell Counties, to Lakeside Bridge Co., North Milwaukee, Wis. Noted Sept. 22.

Idaho—See "Streets and Roads."

Wash., Bellingham—For L-shaped concrete span bridge over Great Northern & Milwaukee R.R. tracks, on Chestnut St., to W. T. Butler, Central Bldg., Seattle, $49,177. Engrs. est. $67,000.

California—State Hy. Dept., Sacramento, 3 rein.-con. girder bridges, in San Bernardino Co., to R. Johnson, Glendale, $75,111; also rein.-con. bridge over Stone Corral Creek north of Maxwell, Colusa Co., to Noble Bros., San Jose, $21,857. Noted Sept. 29.

Calif., Los Angeles—For Pacoima Ave. bridge over Los Angeles River, to J. Short, 329½ West 58th St., $49,835.

Dams

Proposed Work

Okla., Purcell—See "Waterworks."

Contracts Awarded

Tex., Tyler—Lake Park Resort, c/o T. Wilson, pres., rebuilding Lake Dam, spillway, etc., to Lucas & Lucas, Cushing, Okla., approximately $32,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

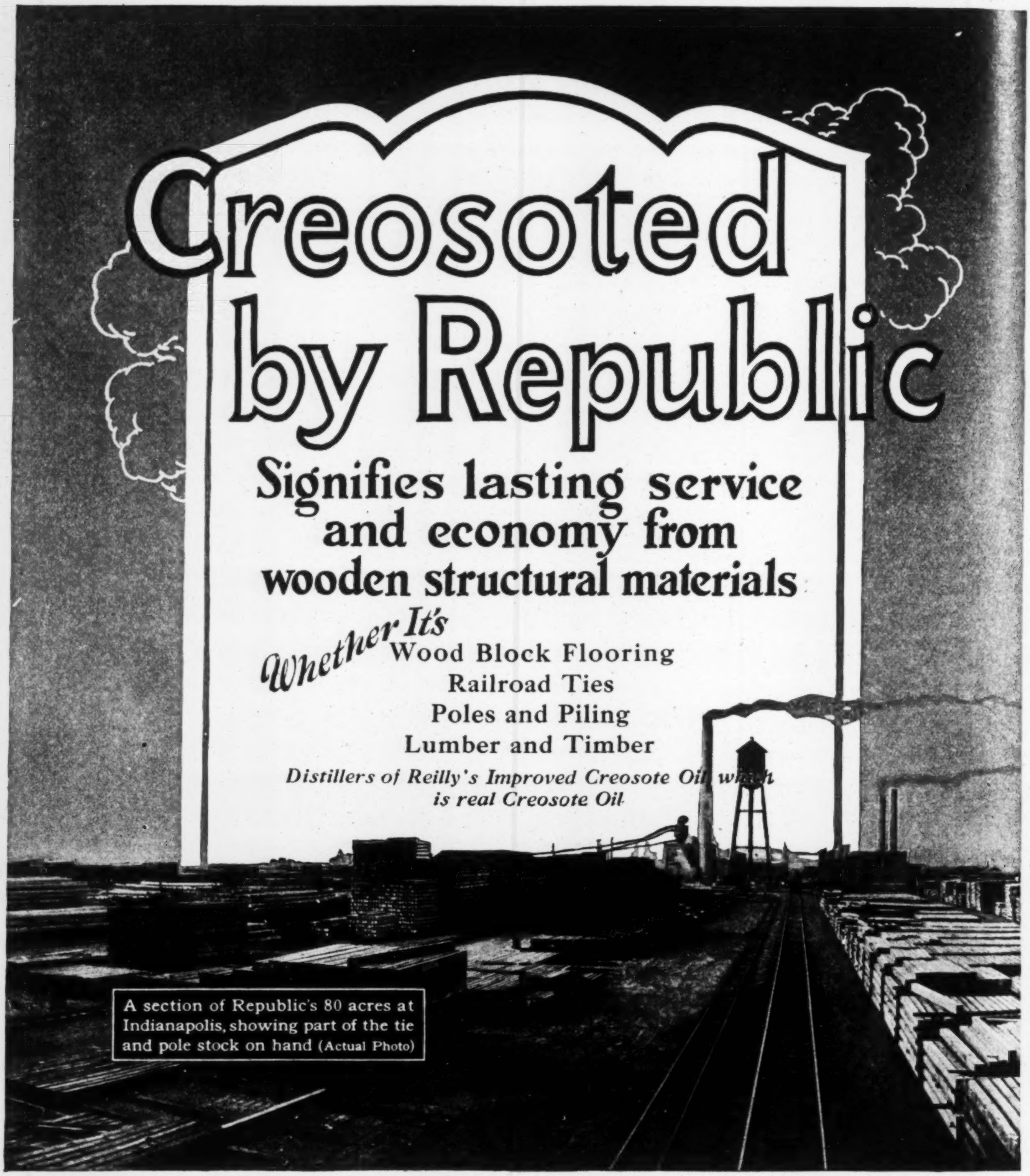
Proposed Work

Mass., Malden (br. Boston)—Morton Oil Co., 145 Medford St., plans dredging, driving piles, etc. in Malden River. $25,000 or more. Private plans.

N. J., Asbury Park—City Comn. plans dredging Wesley Lake. $25,000. G. W. Pittenger, Asbury Park, comr.

Louisiana — Orleans Levee Bd., New Court House Bldg., New Orleans, making plans concrete sheet piling levee along Orleans-Jefferson Parish lines. $2,175,300. R. B. Kohnke, New Court House Bldg., New Orleans, engr.

Ia., Cedar Rapids—Rejected bids 640 ft. rein.-con. river wall, 28 ft. high, on east bank Cedar River between 1st and 3rd Sts.



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Excavation, Drainage, Irrigation, Levees, River and Harbor (Continued)

R. W. Gearhardt, City Hall, engr. Noted June 20.

Mo., Kennett—Dunlin Co. making preliminary plans approximately 15 mi. levee along St. Francis River, approximately 1,750,000 cu.yd. excav., etc. A. C. Spilker, Bloomfield, engr.

Bids Desired

Tex., Galveston—Nov. 7, by J. M. Murch, aud. Galveston Co., filling 122,000 cu.yd. behind west end sea wall from city limits 57th St. to point near 61st St. Rd.

Calif., Grass Valley—Nov. 10, by B. W. Baldwin, secy. Nevada Irrigation Dist., constructing D-S Canal, Contr. 26, 133,400 cu.yd. common, 18,400 solid rock and 15,000 cu.yd. loose rock excav., etc.; also furnishing 5 040 lin.ft. No. 144 16 gage metal flume etc., Contr. 30. F. H. Tibbetts, Alaska Comm. Bldg., San Francisco, engr.

Calif., Tracy—Nov. 15, by J. C. Chrisman, secy. West Side Irrigation Dist., 14,150 cu.yd. excav., also 31,668 sq.yd. trimming and placing 2 in. hydrated concrete lining lower canal.

Calif., Ventura — Nov. 15, by L. E. Hollowell, clk. Ventura Co., excavating 3,700 ft. channel, 8 ft. deep, 18,000 cu.yd. earthwork.

Contracts Awarded

Conn., Bridgeport—See "Unclassified."

Louisiana — Bd. State Engineers, New Court House Bldg., New Orleans, 97,000 cu.yd. Brookston Levee, on right bank Mississippi River, St. James Parish, to D. B. Hearin & Son, Baton Rouge, at $0.2545 per cu.yd., total $24,735.

Louisana—Atchafalaya Basin Levee Dist., H. G. Parker, secy., c/o Bd. State Engineers, New Orleans Court Bldg., New Orleans, 8,000 cu.yd. levee repairs at Bayou Courtableau, to E. Firmen, Rosa, at $0.33 per cu.yd.; 17,500 cu.yd. in Sect. 2, to J. P. Hebert, Breaux Bridge, $0.70; and 185,500 cu.yd. Sects. 3, 4 and 5 to McWilliams Dredging Co., 226 Carondelet Bldg., New Orleans, $0.85.

Ill., Carrollton—Comrs. Hartwell Drainage & Levee Dist., 204,717 cu.yd. excav., to C. E. Walker, Cedar Rapids, $21,495. Noted Oct. 6.

Ia., Toledo—To L. C. Wood & Co., Alden, 45,700 cu.yd. excav. at $0.27 per cu.yd., 35,000 sta.yd. overhaul $0.02, and 200 ft. culvert labor $0.35.

Tex., San Antonio—Constructing 300 ft. concrete lined channel cut-off 22 ft. deep and 50 ft. wide in San Antonio River, to Walsh & Burney, 928 North Flores St., $30,733. Noted Oct. 24.

Que., Magdalen Island—Dept. Pub. Wks., Ottawa, Ont., drilling and blasting at Amherst Harbor, here, to Halifax Dredging Co. Ltd., Halifax, N. B., $16,950.

Ont., Sault Ste. Marie—Dept. Pub. Wks., Ottawa, dredging Areas 2 and 3, here, to Soo Dredging & Constr. Co. Ltd., Sault Ste. Marie, $136,000; and deepening channel approach to Government wharf, to A. B. McLean & Sons, Sault Ste. Marie, $16,800.

Streets and Roads

Proposed Work

Massachusetts—Dept. Pub. Wks., Boston, making surveys, widening Newburyport Turnpike in Malden, Saugus and Lynfield. $1,000,000. W. F. Williams, comr.

Mass., Brighton (sta. Boston) — Dept. Pub. Wks., Boston, plans laying out and constructing Gerald and Scottfield Rds. as highways. To exceed $25,000. J. H. Sullivan, comr.

Mass., Brighton (Sta. Boston) — Dept. Pub. Wks., Boston, plans widening and reconstructing section Western Ave., Centre and Roxbury Sts., here. $25,000 or more.

Mass., Boston—Dept. Pub. Wks. making plans widening and reconstructing Central Ave., Hyde Park and Union St., Brighton, as highway. $25,000 or more. J. H. Sullivan, comr.

Mass., West Roxbury (Sta. Boston)—Dept. Pub. Wks., Boston, plans widening and reconstructing Weld St., here. $102,000. J. H. Sullivan, comr.

R. I., Providence—Plans improving Hillside Ave. and Ray St. as highway. $25,000. Private plans.

N. Y., Brooklyn—Park Bd., W. R. Herrick, pres. Park Dept., Arsenal Bldg., Central Park, New York City, rejected bids Oct. 11, improving Shore Road Dr. Will probably readvertise. Noted Oct. 6.

Pa., New Bethelem — Plans grading, curbing and paving various streets. $45,000. E. W. Hess, Dubois, engr.

Pa., St. Marys — Made plans grading, curbing and paving various streets. $160,000. B. E. Willard, St. Marys, boro engr.

W. Va., Parkersburg—City Council soon takes bids concrete and rein.-con. paving, etc. portions Jeanette. Pearcy and Franklin Sts., 30 ft. J. V. Dunbar, Parkersburg, engr.

Miss., Ackerman — Choctaw Co. soon takes bids grading and graveling 18 mi. road east to Oktibbeha Co. line and west to Weir, 18 ft.

Miss., Meridian — Lauderdale Co. voted $800,000 bonds, grading and graveling, etc., 4 main highways.

La., Plaquemine — City Council takes bids after Nov. 2, grading, sidewalks and curbing various streets. $44,000. Swanson & McGraw, Inc., Balter Bldg., New Orleans, engrs.

La., Winnfield—Making preliminary plans grading, curbing and concrete paving various streets. C. D. Evans, 414 Levy Bldg., Shreveport, engr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, plan improving and bridging 10 mi. Adams-Guthrie Rd., Robertson Co. C. N. Bass, Nashville, comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 10 mi. Johnson City-Bristol Rd., Washington Co. To exceed $25,000. C. N. Bass, highway comr.

Tenn., Cookeville—Voted $25,000 bonds, paving, etc., various streets. J. Whitson, mayor.

Tenn., Jonesboro—Washington Co. making plans improving Jonesboro-Carter Co. Line Rd. $30,000 appropriated. County Court, Jonesboro, engrs.

O., Hamilton — Making plans grading, curbing, walks and paving, etc., Franklin St. from Belt Line R.R. tracks to western terminus; also grading, curbing and paving, etc., 2,800 ft. Ross Ave. from B to Millville St.s $51,625. W. Willard, Hamilton, engr.

Ind., Elwood — Making plans concrete paving 1 mi. Sellers Rd., 25 ft. $29,000. A. Steele, Anderson, engr.

Mich., Detroit—Made plans concrete or Medina curbing, widening and 3½ in. sheet asphalt on 8 in. concrete paving 38,522 sq.yd. Gratiot Ave., Sect. 3. P. A. Fellows, city engr.

Mich., Pontiac—Murray, Gorman & Ross, C. P. A. Bldg., Detroit, making plans grading and concrete paving streets in Baldwin Dixie Hills Sub-division near here. $100,000. McGoughan & Ransom, Pontiac Bank Bldg., engrs.

Ill., East St. Louis — Soon takes bids curbing, brick paving, etc., 5,650 sq.yd. 29th St., $30,100; asphalt paving 11,290 sq.yd. and concrete paving 3,200 sq.yd., etc., 5th St., $64,200; curbing, 7 in. concrete paving, etc., 2,490 sq.yd. Belmont St., $12,100; and curbing, 8 in. concrete paving, etc., 8,940 sq.yd. 52nd St., $46,600. W. McK. Brown, City Hall, engr.

Ia., Council Bluffs—Soon takes bids grading and various types paving, etc., 15 blocks Euclid Ave., 8th, Hunter and 19th Sts., Avenues D and G. B. Walker, City Hall, engr.

Ia., Iowa City—Making plans 6 in. concrete paving 14 blocks various streets. $32,000. F. E. Young, city engr.

Kan., Hays—Ellis Co. plans grading, etc., 15.913 mi. Project 59, 28 ft. C. J. Londitsch, Hays, co. engr.

Kan., Hutchinson—Reno Co. made preliminary plans grading and concrete or bituminous concrete paving, etc. 8 mi. Sante Fe Trail 50 S, 18 ft. W. A. Stacey, Court House, engr.

Ark., Little Rock—Making preliminary plans grading, curbing and paving Dist. 465, also constructing subway under Misosuri Pacific R.R. tracks, on West 7th St. $125,000. W. T. Field, Gazette Bldg., engr.

Tex., Austin—Travis Co. making plans constructing roads and bridging 4.849 mi. State Highway 20, Federal Aid Project 478-C, Unit 1, 26 ft. $65,000. J. E. Motheral, 722 Cong. Ave., Austin, engr.

Tex., Beaumont—Making plans alternate type paving approximately 24 blocks Wall and Trinity Sts. $80,000. R. C. Black, city engr.

Tex., Corsicana—Navarro Co. making plans grading and bridging, 32.68 mi. State Highway 14 from Ellis Co. line to Freestone Co. lines, 26 ft. $320,000. A. B. Purnell, Corsicana, engr.

Tex., Hebbronville—Jim Hogg Co. making plans rock asphalt on 9 in. caliche surfacing 5.49 mi. Highway 12-A, Federal Aid Project 436-G, Unit 2, 17 ft. $45,000. E. J. Foster, Hebbronville, engr.

Tex., Johnson City — Blanco Co. voted $186,000 bonds, grading, and surfacing, etc., approximately 16 mi. Highway 108, San Antonio-Fort Worth air line road through county. Address W. Martiny, Johnson City, co. judge.

Tex., La Grange—Fayette Co. making plans gravel surfacing 3.3 mi. Highway 72 from Schulenberg to Lavaca Co. line, 17 ft. $40,000. R. E. Schiller, La Grange, engr.

Tex., Laredo—Webb Co. making plans concrete paving 13.246 mi. State Highway 12-A, Federal Aid Project 436-B, Unit 2, 18 ft. $202,600. T. E. Huffmann, Laredo, engr.

Tex., Odessa—Ector Co. voted $100,000 bonds, improving highways in Odessa Dist. Address T. S. Hendrick, Odessa, co. judge.

Tex., Quanah—Hardeman Co. making plans grading and bridging 8.371 mi. State Highway 5, 26 ft. $26,000. J. B. Nabors, Quanah, engr.

Kan., Sedan—Clerk Chautauqua Co., rejected bids Oct. 18, concrete paving 0.505 mi. and grading 4.495 mi. US 166, Project 384-A. Will readvertise. Noted Sept. 29.

Tex., Seymour—Baylor Co. making plans 2½ in. bituminous macadam surfacing 6.489 mi. Highway 24, Federal Aid Project 455-A, Unit 3, 18 ft. $56,540. H. S. Kerr, Seymour, co. engr.

Tex., Sinton—Voted $80,000 bonds, paving various streets. Address Mayor.

Tex., Sinton—San Patricio Co. voted $500,000 bonds, constructing roads. Address J. C. Russell, Sinton, co. judge.

Tex., Waxahachie — Waxahachie Dist. voted $200,000, Italy Dist. $166,000, and Milford Dist. $70,000 bonds constructing roads in Ellis Co.; also Ellis Co. defeated $100,000 bonds constructing lateral roads, and $70,000 bonds, Highway 6. Address H. R. St vall, Waxahachie, judge.

Oklahoma—State Hy. Comn., Oklahoma City, made surveys grading, pavng, etc., 8 mi. State Rd. 27, Caddo Co., 30 ft. $35,000. C. R. Mandigo, Capitol, Oklahoma City, highway engr.

Oklahoma—State Hy. Comn., Oklahoma City, made preliminary plans grading and 7 in. concrete paving 16,000 sq.yd. Highway 3, Pottawatomie Co., $37,500; also grading, etc., 10 mi. Highway 9 between Granite and Mangum, Greer Co., 35 ft., $35,000, and 10 mi. Highway 18, Pontotoc Co. $40,000. C. R. Mandigo, Capitol, engr.

Okla., Ada — Making plans grading, curbing and 6 in. concrete paving 10,220 sq.yd. Mississippi Ave. $31,800. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

Okla., Forgan—Plans grading, curbing, guttering and graveling 2,200 cu.yd. Main St. $27,000. H. Donnelly, mayor. Engineer not selected.

Okla., Hobart — Making plans grading, curbing and 6 in. concrete paving 14,100 sq.yd. Souht Main St. $42,000. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Holdenville—Making plans grading, curbing and 6 in. concrete paving 8,100 sq.yd. 8th St. $27,000. C. H. Edge, Holdenville, engr.

Okla., Okemah—Making plans grading, curbing and 6 in. concrete paving 9,775 yd. North 8th St. $29,200. A. C. McCord, Okemah, engr.

Okla., Oklahoma City — Making plans grading, curbing and sheet asphalt paving 7,800 sq.yd. Harvey Ave. $33,000. B. M. Hart, City Hall, engr.

Okla., Snyder — Making plans grading, curbing and 6 in. concrete paving 7,800 sq.yd. Chestnut, Spruce and Oak Sts. $25,100. E. W. Gantt, 1116 West Main St., Oklahoma City, engrs.

Okla., Tahlequah — Making preliminary plans grading, curbing and 6 in. concrete paving 13 000 sq.yd. various residential streets. $42,000. C. R. Morgan, Muskogee, engr.

Okla., Weatherford—Making plans grading, curbing and 6 in. concrete paving 9,775 sq.yd. Bway. and State St. $32,400. C. L. Wilson, Weatherford, engr.

Okla., Weleetka—Making plans grading and 7 in. concrete paving 9,240 sq.yd. Chickasaw Ave. $28,216. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

California—State Hy. Dept., Sacramento, rejected bids improving, etc., 3.4 mi. roadway between Camphora and east boundary Monterey Co.

Calif., Bakersfield — Kern Co. making surveys constructing approximately 18 mi. Mt. Breckenridge Rd. $120,000. P. J. Thornton, Bakersfield, co. surv.

Calif., Oakland — Made plans grading, curbing, guttering and 1½ in. Warrenite on 5 in. concrete paving, etc., 63,619 sq.ft. portions Camden, 60th and 61st Sts., etc. G. N. Randle, city engr.

Calif., San Diego—Common Council plans grading, curbing, walks and 6 in. asphaltic concrete paving 323,719 sq.ft. Winona Ave., etc.; also 128,523 sq.ft. 48th St. and Trojan Ave. H W. Jorgensen, city engr.

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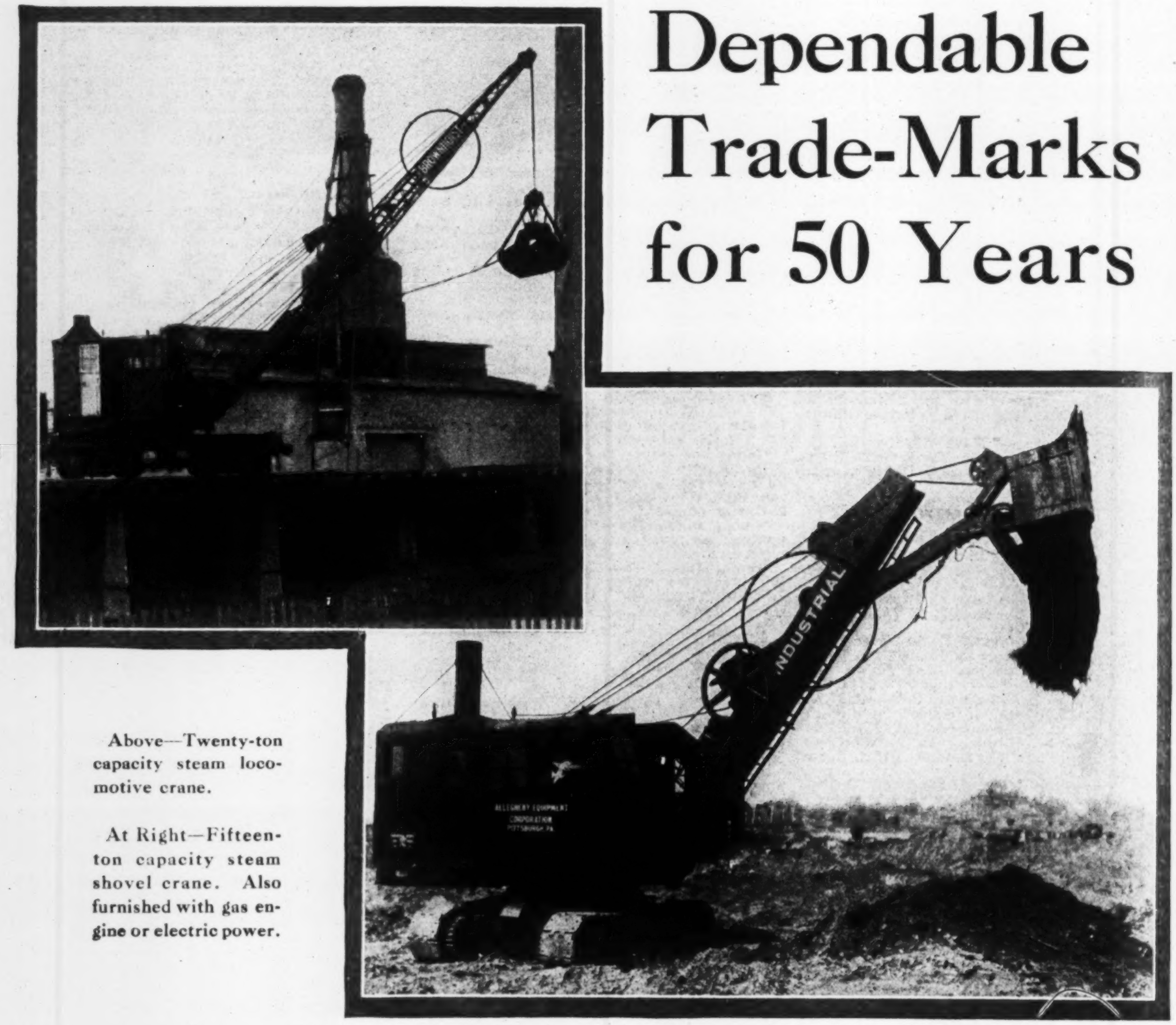

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INDUSTRIAL BROWNHOIST

Streets and Roads (Continued)

Calif., Whittier—Plans curbing and 6 in. concrete paving, etc. portions Iowa St., etc.; and curbing, guttering and 7 in. concrete paving, etc. portions Beverly Blvd., etc. To exceed $25,000 each.

Calif., Yuba City—Sutter Co. made plans grading and asphaltic macadam paving, etc., approximately 7½ mi. Walton Ave., Franklin and Lincoln Rds., etc. in Rd. Dist. Impvt. 3. O. W. Lanzendorf, Yuba City, co. road comr.

Que., Montreal—Plans two boulevards 7 mi. long, along aqueduct at Water Ave. to Ville La Salle; 66 ft. $500,000.

Mexico, Tamaulipas, Reynosa—P. Clark, McAllen, Tex., making plans permanent paving various streets, here. $200,000.

Bids Desired

Mass., Boston—Nov. 10, by Park Dept., 33 Beacon St., grading Fens between Audubon Rd. and Fens Pond, Back Bay Dist. $30,000. Private plans.

N. Y., Brooklyn—Nov. 10, by J. J. Byrne, pres. Brooklyn Boro, curbing and flagging Blake and Troy Aves.; also grading and sheet asphalt on concrete paving, etc. West 9th St. and 9th Ave.

N. Y., St. George—Nov. 9, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading Washington Ave.; bituminous macadam repaving Theresa Pl. and Nixon Ave.; also grading and bituminous concrete on concrete paving DeGroot and Union Pls., Taylor and Market Sts.

N. J., Eatontown—Nov. 23, by Bd. Freeholders Monmouth Co. Freehold, grading and rein.-con. paving 100,000 sq.yd. Shore Relief Rd., Eatontown to Asbury Ave., Ocean Twp., here. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr.; adv. E. N.-R. Nov. 3.

Pennsylvania — Nov. 18, by State Hy. Comn., Harrisburg, grading, or rein.-con. paving, etc., approximately 28 mi. of 14 projects in Allegheny, Bucks, Butler, Clearfield, Dauphin, Greene, Lancaster, McKean, Mifflin, Northumberland, Potter, Cambria, Indiana, Westmoreland and York Counties. J. L. Stuart, secy. highways; adv. E. N.-R. Nov. 3.

Pa., Phila.—Nov. 7, by Dept. Pub. Wks., Bureau of Highways, Schedule A, grading 42,655 cu.yd. Malvern, Renovo, Sterling and 20th Sts.; Schedule B, asphalt paving (assessment work), 12,477 sq.yd. Courtland, Ditman, Ogontz, Stiles and 21st Sts. G. H. Biles, dir.

Virginia — Nov. 8, by State Hy. Comn., Richmond, grading, etc. 4.86 mi. Route 10, Project SS-366-G, I and K, Dinwiddie and Nottoway Counties, 2.7 mi. Route 14, Project S-393-A Alleghany Co., and 0.6 mi. Route 21, Project S-492 Rappahannock Co.; also concrete paving 0.7 mi. Route 33, Project 458-D and E, Henry Co. C. S. Mullen, ch. engr.

Fla., Crescent City—Nov. 8, by Mayor and City Council, curbing, guttering and paving 3,800 sq.yd. various streets. H. S. Jaudon Eng. Co., Elberton, Ga. and Eustis, Fla., engrs.

Fla., Tavares—Nov. 15, by Comrs. Lake Co., at office T. C. Smyth, court clk., paving 32 mi. Special Road & Bridge Dist. 14. H. S. Jaudon Eng. Co., Eustis and Leesburg, engrs.

Alabama — Nov. 29, by State Hy. Dept., Montgomery, bituminous concrete, bituminous macadam, rock asphalt or sheet asphalt paving, etc. 252,800 sq.yd. roadway from Jasper to Marion Co. line and 252,800 sq.yd. roadway from Jasper to Marion Co. line both Walker Co., 106,000 sq.yd. roadway from Montgomery to Snowdoun Montgomery Co., 97,250 sq.yd. roadway from Browns Sta. to Uniontown Dalls and Perry Counties, 148,000 sq.yd. roadway between Davenport and Ft. Deposit Montgomery and Greenville Counties, 232,840 sq.yd. roadway from Line Creek to Tuskegee, Macon Co., and 232,840 sq.yd. roadway between Montgomery Co. line and Benton, Lowndes Co.; seal coat on bituminous macadam paving, etc. 220,600 sq.yd. roadway from Gunersville to Federal Aid Project 165, Marshall-Etowah Counties; local chert surfacing, etc. 17,558 cu.yd. roadway between Guntersville and Arab, Marshall Co.; bituminous and chert surfacing, etc. 2,000 sq.yd. portion Birmingham-Gadsden Rd., St. Clair Co.; removing railroad grade 10,000 cu.yd. roadway between Jacksons Gap and Camp Hill, Tallapoosa Co.; grading, etc. 12.22 mi. roadway from Mt. Willing to Wilcox Co. line, Lowndes Co.; also four 26½ ft. span concrete bridge over Cahaba River, and three span bridge over Little Cahaba River, both in Jefferson Co., and 3 bridges on road between Little River and Uriah, Monroe Co. W. Finnell, highway dir.

Ala., Birmingham — Dec. 10, by City Comn., 2 in. asphalt on 5 in. concrete paving, etc. 1 block 11th St., 40 ft., $4,850; 1 block 10th Alley S., 20 ft., $1,700; 2 blocks Lee Ave. and 15th Pl., 40 ft., $10,125; 3 blocks Bessemer Rd., Ensley, 30 ft., $14,260; 2 blocks 15th Ave. N., 40 ft., $9,115; also 10 blocks Ave. V, Ensley, 48th St., Ave. U, South Park Rd., 24th St. S. W., 30 ft., $49,000. A. J. Hawkins, city engr.

Ala., Birmingham — Dec. 10, by City Comn., 2 in. asphalt on 5 in. concrete paving, etc., 2 blocks 30th St. S. and 34th St. S. $10,000, 18 blocks 10th Ave. $98,500, 1 block 29th St. S. $6,850, 1 block Ave. U, Ensley and 11th Ave. $6,750, ½ block 15th Ave. $3,350, all foregoing 40 ft. wide; also 4 blocks 7th Court S. $21,900, and 4th Pl. W. $25,150, both 30 ft. wide. A. J. Hawkins, city engr.

Ind., Lagrange — Nov. 8, by Comrs. Lagrange Co., at office J. E. Zook, aud., graveling 15,838 ft. Weldon Haskins et al Rd. $12,373, 12,141 ft. Byron Bovee et al Rd. $11,704, and 13,255 ft. Samuel Devenbaugh et al Rd. $9,600.

Ind., Spencer—Nov. 8, by Comrs. Owen Co., graveling 5,321 ft. Sam Stevens Rd. C. F. Pectol, Spencer, aud.

Iowa — Nov. 15, by State Hy. Comn., Ames, paving 8.6 mi. U. S. Highway 20, Buchanan Co., 19 mi. Primary Road 10 Butler Co., 24 mi. U. S. Highway 20 Delaware Co., 18.1 mi. Primary Road 10 Clayton Co., 11.5 mi. U. S. Highway 34 Mills Co., 6.5 mi. U. S. Highway 34 Pottawattamie Co., 25 mi. Primary Road 3, Page Co., and 12 mi. U. S. Highway 34, Wapello Co.; also graveling 10 mi. Primary Road 15, Wright Co. R. F. White, ch. highway engr.

Kan., Clay Center—Nov. 22, by Clay Co., sand clay surfacing 9.375 mi. US 40-N, Project 161.

Kan., McPherson—Nov. 8, by McPherson Co., sand clay surfacing 9.404 mi. US 81, Project 156.

Texas — Nov. 14, by R. A. Thompson, state highway engr., Austin, gravel surfacing 40,342 sq.yd. Highway 8, Federal Aid Project 457-A, B, C, Unit 2. $104,000. S. B. Janes, Linden, resident engr. Noted Oct. 13.

Tex., Amarillo—Nov. 14, by J. W. Ryder, engr. Potter Co., 1 course gravel surfacing 9,000 yd. highway from Sect. 224 to Sect. 221. $30,000.

Tex., Ballinger—Taking bids and opens same about Nov. 1, alternate types paving approximately 24 blocks various streets. $40,000. Address T. R. James, city secy.

Tex., Bay City — Nov. 15, by Comrs. Court Matagorda Co., concrete paving 24,000 sq.yd. highway from near Rugeley to near Cedar Lane, Project 1-A. E. N. Gustafson, Bay City, co. engr.

Tex., Crockett—Nov. 14, by R. A. Thompson, state hy. engr., Austin, grading, etc., 6.613 mi. State Highway 19, Federal Aid Project 485-B, from Crockett north to Road Dist. Line 3 and 9 in Houston Co., $55,000, and 9.122 mi. same road Sect. D, from point 6.75 mi. south of here through Lovelady, $42,000, both 26 ft.

Tex., Kerrville—Nov. 14, by State Hy. Dept., Austin, grading, etc., approximately 11 mi. Highway 41 from Rael Co. line northeast to Mountain Home. $60,000. State Highway Dept., Austin, engr.

Tex., Linden—Nov. 14, by State Hy. Dept. Austin, iron ore gravel surfacing 7.44 mi. Highway 8, Federal Aid Project 457-B, Unit 2, Cass Co. $90,000. S. B. Janes, Linden, engr.

Tex., Richmond—Nov. 10, at office B. K. Patton, div. engr., 1707 Post Dispatch Bldg., Houston, ½ in. inverted penetration asphalt paving 10.4 mi. Highway 19, Fort Bend Co., here.

Washington—Nov. 22 by State Hy. Comn., Olympia, grading, etc. approximately 496,610 cu.yd. State Road 13, Grays Harbor Co.; crushed rock surfacing approximately 11,620 cu.yd. State Road 10, Okanogan Co.; also crushed gravel resurfacing, etc. approximately 6,300 cu.yd. State Roads 7 and 10, Grant Co. S. J. Humes, state highway engr.

Calif., Merced — P. J. Thornton, clk. Merced Co., taking bids grading, curbing, guttering, walks and 4 in. Willite asphaltic concrete paving, etc. Ragsdale Addition Impvt. Dist. 12. To exceed $25,000. W. E. Bedesen, Merced, co. surv. Noted Oct. 13.

Contracts Awarded

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam and rein.-con. paving 3,200 ft. highway in Malden and Medford, to F. J. McCarthy Contg. Co., 3 Endicott St., Boston, $40,123; bituminous macadam paving 18,154 ft. in East Bridgewater and Whitman, also 22,213 ft. highway in Weymouth Co., 18 ft., to Powers Bros., Montello St., Brockton, $96,836 and $131,780 respectively. Grand total $268,739. Noted Oct. 27.

New York—A. W. Brandt, comr. Highways, Albany, concrete paving 6.31 mi. Highway 8292, Bliss-Pike Rd., Wyoming Co., to E. C. Jones, Inc., Warsaw, $305,137. Engrs. est. $438,050. Noted Oct. 13.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Slattery Contg. Co., 10 East 43rd St., New York City, grading, etc., 103rd Ave. $11,649, and Brinkerhoff Ave., $22,500; to Welsh Bros. Contg. Co., Queens St., Astoria, grading 100th St., $6,667; to W. P. MacDonald Co., Lawrence St., Flushing, sheet asphalt paving Wolcott Ave. $43,252, and Woolsey Ave. $23,608, to Cleveland Trinidad Paving Co., Flushing, 104th St. $10,815, and 42nd St. $10,235, to Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, 126th St. $23,283, to Uvalde Asphalt Paving Co., 1 Bway., New York City, Wayne St. $38,973, and 77th St. $30,580, to Sicilian Asphalt Paving Co., 41 Park Row, New York City, Jefferson Ave. $17,071, and Steuben St. $7,419, to Highway Impvt. & Repair Co., Furmans Island, Brooklyn, 95th Ave. $15,240, 95th St. $14,288, 106th St. $22,951, 91st Ave. $14,742, and 115th St. $15,933; to W. J. Fitzgerald, 547 West 45th St., New York City, 100th St. $30,166. Grand total $359,372. Noted Oct. 13.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Uvalde Asphalt Paving Co., 1 Bway., New York City, grading and sheet asphalt paving 125th St. $13,968, 89th St. $26,105, 91st Ave. $15,681, 86th Ave. $11,080, and Milwood $5,438; to Highway Impvt. & Repair Co., Furmans Island, Brooklyn, 85th Rd., $10,984; to W. P. MasDonald Constr. Co., Lawrence St., Flushing, Singer St. $20,938, and 14th Ave. $12,103; to Sicilian Asphalt Paving Co., 41 Park Row, New York City, Fosdick Ave. $11,045, and Walter St. $25,189; to W. J. Fitzgerald Co., 547 West 45th St., New York City, 15th Ave. $6,182, and Queens Blvd. $16,981. Grand total $176,090. Noted Oct. 20.

N. J., Toms River — Ocean Co., grading and concrete paving Main Shore Rd. in South Toms River, to E. T. McNierney, Bradley Beach, $32,095.

N. J., Union City—Sheet asphalt resurfacing, etc., Mountain Rd., 19th and 23rd Sts., to Clinton Asphalt Co., 308 16th St., Union City, $69,985.

N. J., Union City—Grading, curbing, and sheet asphalt repaving 17th St. from Palisade Ave. to Hudson Blvd., to Clinton Asphalt Co., 308 16th St., $53,090. Noted Sept. 22.

Pennsylvania—State Hy. Comn., Harrisburg, 6 and 8 in. concrete paving, etc., 26,700 sq.yd. Route 200-448, Crawford Co., to J. C. Devine, Alliance, O., $116,194; also 25,074 sq.yd. Applications 320 and 321, Westmoreland Co., to M. J. McMahon, Deposit Natl. Bank Bldg., DuBois, $95,588. Noted Sept. 8 and 29.

Pa., New Kensington—Controllers Westmoreland Co. (Greensburg) and Allegheny Co. (Pittsburgh), paving west approach to New Kensington Bridge 10 over Allegheny River, on 2nd Ave. and 9th St., here, to State Constr. Co., New Kensington, $33,153. Engrs. est. $50,000. Noted Oct. 6.

Pa., Phila.—Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., 2,400 cu.yd. granolithic sidewalks on Broad St. between Tabor Rd. and Grange Ave., Broad Street Subway Contr. 192, to Hyowitz & Sons, 317 South 6th St. $6,372. Noted Oct. 20.

Pa., Phila.—Dept. Pub. Wks. Bureau of Highways, to Eastern Asphalt Paving Co., 1504 Penna Bldg., asphalt paving (assessment work), Benner and Large Sts. $16,999, and Charles St. $7,475; to Barber Asphalt Co., 239 North 30th St., Bingham St. $34,898, and 50th St. $4,463; to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., Brous St. $9,181, and Montague St. $5,538; to Union Paving Co., 123 South 21st St., Bristol St. $6,018, Manheim St. $20,465, and Queen St. $20,991. Grand total $126,028. Noted Oct. 20.

Md., Baltimore—Bd. Awards, improving area around Western High School, Gwynn Fallsway Pulaski, Warwick and Wheeler Aves., to D. Marine, 238 Albemarle St., $77,670. Noted Oct. 6.

Virginia—State Hy. Comn., Richmond, 6 and 8 in. concrete paving 2.2 mi. Route 29, Project S-156-B, Gloucester Co., to G. Y. Carpenter, Chester, $54,638; grading, 7 in. rock asphalt paving, etc., 0.644 mi. Route 10, Project S-497-C, Pulaski Co., to Warden Constr. Co., Pulaski, $22,830. Noted Oct. 13.

West Virginia — State Road Comn., Charleston, grading, etc., 1.37 mi. Johnnycake-Iager Rd., Project 3385 and 5.33 mi. Iager-Roderfield Rd., Project 3385-B, to Price Constr. Co., Huntington, $45,358 and $94,634 respectively, 3.46 mi. Iager-Roderfield Rd., Project 3385-C, to J. E. McComas, Huntington, $64,168, all in Mc-

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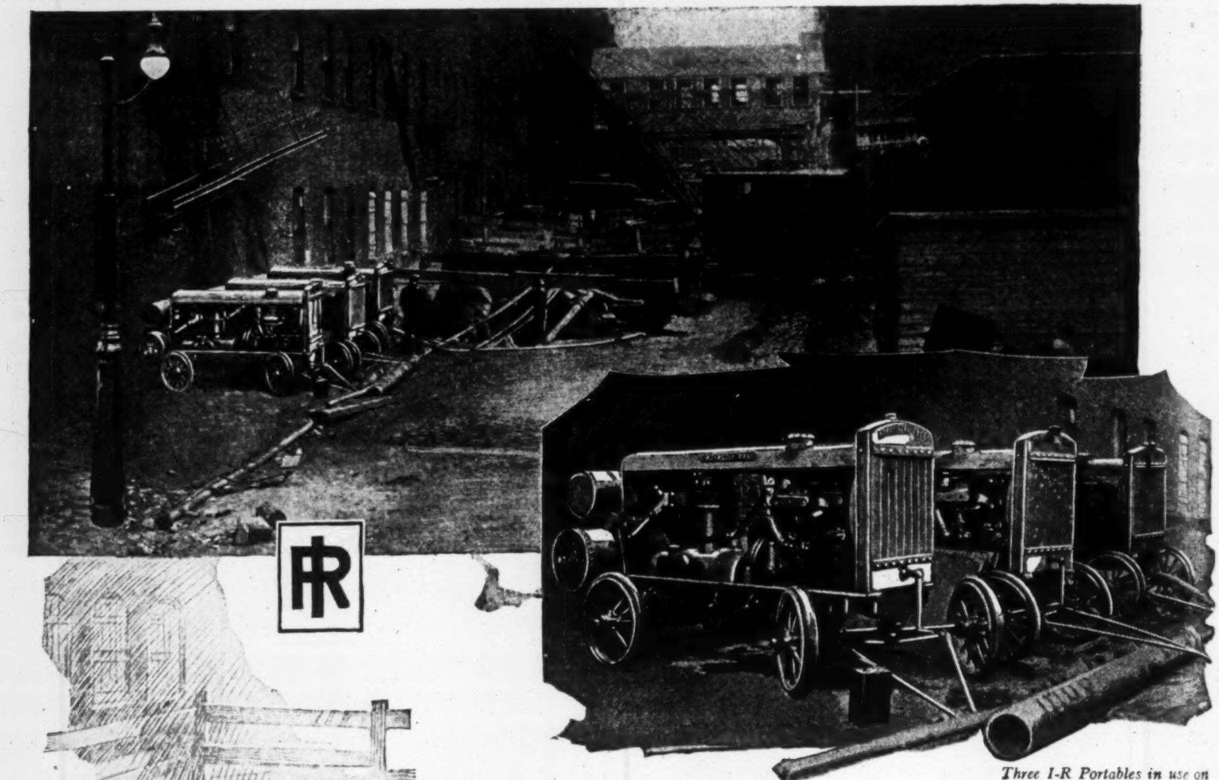

Three I-R Portables in use on a subway construction job

Twenty-Four-Hour Continuous Service— Six Days a Week

THE three Ingersoll-Rand Portable Air Compressors shown above supplied air to operate eight "Jackhamer" Rock Drills, one "Leyner" Sharpener, a No. 5 Oil Furnace, and one 30,000-lb. crane.

This job was run on three 8-hour shifts, meaning 24-hour service for the compressors. Not only that, but the work required full-load operation at all times. Despite these severe conditions, the compressors continued to work steadily, with only Sunday shut-downs, for a period of several weeks.

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Streets and Roads (Continued)

Powell Co. Grand total $204,360. Noted Oct. 6.

W. Va., Charleston—City Council, 7 in. rein.-con. paving, etc. Edgewood and two other streets, to K. E. Reed & Co., Charleston $29,512, and Clay and 4 other streets, to M. J. Smith, Charleston $31,895; also 7 in. concrete paving Branch and 7 other streets, to Bruce Constr. Co., Charleston, $43,934. Grand total $105,341.

Ala., Birmingham — City Comn. **(e.e. means engrs. est.)**, 2 in. asphalt on 5 in. concrete paving, etc., 4 blocks 10th Court, 11th Ave., 2nd and 11th Sts. W., 30 and 40 ft., to D. A. Burton, Jackson Bldg., $18,788 e.e. $20,000; 6 blocks 32nd Ave. N., 40 ft., to Dunn Constr. Co., Lincoln Life Bldg., $49,614 e.e. $50,000; 2 blocks 32nd Ave., 27th St. and 28th Pl. N., 30 ft., and 5 blocks 17th Pl. S. W., Princeton Court and St. Charles Ave., 30 and 40 ft., to Southern Roads Co., Pioneer Bldg., $10,306 and $12,545 respectively, e.e. $11,100 and $27,200 respectively. Grand total $105,253.

Ala., Brewton — Curbing, walks and paving, etc. Henderson St., Evergreen and Belleville Aves., to Interstate Constr. Co., Lake City, Fla., $38,838.

Ala., Decatur—City Council, 2 in. asphalt on 5 in. concrete paving, etc. 7 blocks Sherman St., 50 ft., to Municipal Paving Co., Nashville, Tenn., $40,300. Engrs. est. $42,000.

Ala., Trussville — Birmingham-Alabama Realty Co., grading and asphalt paving, etc., 2½ mi. various streets, to J. Gwin, Comer Bldg., Birmingham, $100,000.

Miss., Bay Springs—Jasper Co., grading and graveling, etc. 20 mi. Bay Springs-Laurel Highway, to Moody & Stewart, Poplarville, $67,162.

Miss., Grenada—Grenada Co., sub-grading, graveling, etc. 10.64 mi. Federal Aid Project 147-B, to C. J. Pennington, Grenada, $33,585; furnishing gravel for above road, to Batesville Gravel Co., Batesville, $31,523. Noted Oct. 6.

Miss., Pass Christian — Comrs. Harrison Co., Gulfport, filling and paving Front St. approach to Bay St. Louis Bridge, to Southern Paving Constr. Co., West Railroad St., Gulfport, $33,538.

Louisiana—State Hy. Dept., Baton Rouge, 10.258 mi. Atlanta-Montgomery Highway, Winn and Grant Parishes, to J. L. McKeithers, Grayson, $69,065. Noted Sept. 29.

Louisiana — State Hy. Comn., Baton Rouge, grading, graveling and broken stone paving 13.942 mi. Winnfield-Olla Highway, Federal Aid Project 177-A, Winn Parish, to J. W. McKeithen, Grayson, $135,955; and 11.338 mi. Winnsboro-St. Joseph Highway, Federal Aid Project 180-B, Route 48, Franklin Parish, to J. P. Herbert, Breaux Bridge, $111,489. Noted Sept. 15.

O., Beachwood (br. Cleveland) — To Mahoning Constr. Co., Parkman, paving, etc. Hurlinghan Rd. $17,901, Bryden Rd. $30,535, and Hendon Rd. $14,961; also to Skeldon & Ryan, Nicholas Bldg., Toledo, Litchworth Rd., $12,380. Grand total $75,777.

O., Cincinnati—C. O. Sherrill, city mgr., City Hall, asphaltic concrete paving, etc. 8,300 sq.yd. Mitchell Ave., to Scully Bros., 1011 Atlas Bank Bldg., $25,461. Engrs. est. $30,018.

O., Columbus—W. H. Duffy, dir. Serv., grading, curbing and asphalt paving, etc., 5,320 sq.yd. Deshler Ave., and 800 sq.yd. Kossuth St., to Franklin Asphalt Paving Co., 209 South High St., $17,222 and $3,146 respectively; also 4,640 sq.yd. Patterson Ave., to Fritz-Pyle Constr. Co., 209 South High St., $11,291. Grand total $31,659.

O., Portsmouth — Bd. Control, grading, widening and 4 in. brick on 6 in. concrete paving, etc., approximately 5,000 ft. Gallia St., 10 ft.; also Wilson and Harding Aves., Vermont and Cole Alleys, etc., to S. Monroe & Sons Co., Portsmouth, $28,828 and $10,320 respectively.

Indiana—J. D. Williams, dir. State Hy. Comn., Indianapolis, concrete paving 0.51 mi. F.A. 31, Road 20, Porter Co., to Hinsey & Dull, Portland, $12,373, engrs. est. $12,657; 0.139 mi. F.A. 48, Road 20, Laporte Co., to Reith-Riley Constr. Co., Goshen, $9,817, and 3.185 mi. Road 10, Marshall Co., to Highways Impvt. Co., South Bend, $69,151 engrs. est. $79,417, all 18 ft. wide. Grand total $91,341. Noted Sept. 22.

Ind., Anderson—Comrs. Madison Co., concrete paving 1 mi. streets in Elwood, 25 ft., to M. Harmon, Elwood, $27,000. Noted Sept. 29.

Mich., Berkley—One course 8 in. concrete paving approximately 20,000 sq.yd. streets in St. Johns Woods Subdivision, Dists. 69 and 70, to R. D. Baker, Royal Oak, $61,720.

Mich., Bloomfield Hills (Birmingham P. O.)—Concrete curbing and one course concrete paving 12,000 sq.yd. streets in Devonshire Downs Subdivision, to Otis Cement Constr. Co., 419 Hammond Bldg., Detroit, approximately $35,000.

Ill., East St. Louis—For 7 in. concrete paving 14,407 sq.yd. 39th, 40th and 41st Sts., Fairlawn Paving Dist., to Keeley Bros. Constr. Co., 2100 State St., $78,530; 8 in. rein.-con. paving 1,324 sq.yd. 18th St., to Moore Bros. Constr. Co., 2000 St. Clair Ave. $5,650, and 2,530 sq.yd. 56th St., to L. Rich, Arcade Bldg. $12,089. Grand total $96,269. Noted July 28.

Ill., Niles Center—Paving 32,965 sq.yd. Lonnquist Rd., to Krenn & Doto, 936 North Michigan Ave., $120,976, engrs. est. $134,600; 75,200 sq.yd. Main St., and 7,710 sq.yd. Stielow Ave., to Arcole Constr. Co., Evanston, $308,988 and $52,972 respectively, engrs. est. $317,500 and $50,000 respectviely. Grand total $482,936.

Wisconsin — State Hy. Comn., and A. Weishapple, comr. Pepin Co., 213 South Barstow St., Eau Claire, shale surfacing, etc., 5,350 cu.yd. Durland-Ellsworth Rd., State Project 5926, to M. W. Barnard & Son, 504 Globe Bldg., Minneapolis, Minn., $75,756. Noted Oct. 13.

Iowa—State Hy. Comn., Ames **(F.A.P. means Federal Aid Project and P.R.P. Primary Road Project)**, to McCarthy Constr. Co., Davenport, grading, paving, etc. 85,091 sq.yd. Tipton-Stanwood Rd., P.R.P. 114-C, Cedar Co., 5,500 lb. reinforcing, 15 flumes, etc. $204,455, to Union Constr. Co., 200 New York St., Des Moines, 128,027 sq.yd. Osceola Rd., P.R.P. 31, Clarke Co., 21 flumes, 27,500 lb. reinforcing, etc. $320,457, 98,367 sq.yd. Mt. Pleasant-Des Moines Rd., F.A.P. 56, Henry Co., 16 flumes, etc. $247,288, 94,357 sq.yd. Mt. Pleasant-Jefferson Co. line Rd., F.A.P. 151, Henry Co., 21 flumes, etc. $235,664, and 145,886 sq.yd. Chariton-Monroe Co. line Rd., P.R.P. 551, Lucas Co., 3,740 lb. reinforcing, 18 flumes, etc. $374,845, to A. F. Johnson Constr. Co., Minneapolis, Minn., 263,839 sq.yd. West Union Rd., P.R.P. 553, Fayette Co. $656,970, to Harrison Eng. & Constr. Co., Mutual Bldg., Kansas City, Mo., 261,292 sq.yd. U. S. Highway 161, F.A.P. 86, Jones Co., 18,920 lb. reinforcing, 63 flumes, etc. $537,347, to S. J. Groves & Sons Co., Minneapolis, Minn., 172,947 sq.yd. Albia-Lucus Co. line Rd., P.R.P. 554, Monroe Co., 22,000 lb. reinforcing, 34 flumes, etc. $442,324, and to Metz Constr. Co., Springfield, Neb., 85,647 sq.yd. Kennett-Northwood Rd., P.R.P. 555-A, Worth Co., 2 flumes, etc. $193,840; to Builders Material Co., Cedar Rapids, Ia., graveling 5.26 mi. Tampa Co. line Rd., P.R.P. 470, Benton Co. $14,098, 8.56 mi. Traer Rd., P.R.P. 309, Tama Co. $22,704, and 3 mi. Blairstown Rd., F.A.P. 258, Benton Co. $8,029, to Baumgardner & Schroeder, Wapello, 14.02 mi. Tipton-Scott Co. line Rd., F.A.P. 213, Cedar Co. $34,330, to McDougal Constr. Co., Moville, 7.85 mi. Washta-Correctionville Rd., P.R.P. 457 Cherokee, Ida and Woodbury Counties $4,803, and 15 mi. Newton Marshall Co. line Rd., P.R.P. 99-E, Jasper Co. $21,766, and to Flint Crushed Stone & Gravel Co., Des Moines, material on above road $12,422; to Lamereaux Bros., 418 Peters Trust Bldg., Omaha, Neb., grading 5.45 mi. U. S. Highway 30, P.R.P. 30, Boone Co. $79,050, and to M. P. Eischfried, New Hampton, 4 mi. U. S. Highway 18, Chickasaw Co. $2,625; to Balmat & Son Constr. Co., Clear Lake, 3,177 cu.yd. bridge fill on U. S. Highway 18, F.A.P. 177, Chickasaw Co., $1,430. Grand total $3,414,455. Noted Oct. 13.

Ia., Muscatine—Muscatine Co., graveling, etc., 19,290 cu.yd. Muscatine-Cone, Nicholas, and West Liberty Rds., to Moore & Eldredge, Clemons, $30,821.

Ia., Iowa City—For 2.5 and 3 in. brick, concrete and sheet asphalt paving, etc., 30 blocks various streets, to W. Horrabin Contg. Co., Iowa City, $74,376. Noted Oct. 13.

Ia., Keokuk—H. B. Blood, city clk., warrenite bitulithic paving, etc. 9,918 sq.yd. 10th St., to Cameron-Joyce-Smith-Elder Co., Keokuk, at $1.61 per sq.yd.; also 5,100 sq.yd. 3rd St. and 1,101 sq.yd. Franklin St., to William Horrabin Constr. Co., Iowa City, $1.65.

Ia., Tipton—Comrs. Cedar Co., graveling, etc., 14,000 cu.yd. Primary Road 74, to Baumgardner & Schroeder, Wapello, $34,330.

Ia., What Cheer—Auditor Keokuk Co., Sigourney, to J. P. Abramson, Des Moines, improving Primary Rd. 85, 1,050 cu.yd. excav. at $0.45 per cu.yd., and 11,651 yd. 6 in. concrete paving $2.25.

Minn., St. Paul—G. J. Ries, aud. Ramsey Co., concrete pavin- approximately 30,000 sq.yd. State Trunk Highway 52, to Hanlon & Okes, 1501 Merchants Natl. Bank Bldg., $76,419. Noted Sept. 29.

Kan., Dodge City — Ford Co., concrete paving 1.011 mi. US 50-S, Project 64-B, to Geiger & Rutherford, Leavenworth, $29,132; also 16.061 mi. culverts, and 3 bridges on US 50-S, Project 34-A, to V. Stewart, Cimarron, $8,624 and $5,542 respectively. Grand total $43,297. Noted Sept. 22.

Kan., Hutchinson—Reno Co., concrete paving 3 mi. K 17, Federal Aid Project 83-A, to Shultz Constr. Co., Wichita, $66,779. Noted Oct. 6.

Kan., Linn—Grading, curbing, guttering and gravel surfacing various streets, to Cook & Stucker, Ottawa, $35,328.

Kan., Seneca—Nemaha Co., grading 0.556 mi. Project 137-A, to J. Spitcaufsky, 2452 Benton St., Kansas City, Mo., $6,455; constructing 4 bridges, to S. B. Murphy, Centralia, $24,081; also Hill Bridge, one 60 ft. and two 20 ft. spans, to E. S. Alexander, Axtell, $8,090. Grand total $38,626.

Mo., Joplin—Concrete paving 3,920 sq.yd. 5th St., to V. E. Koch, 417.5 Joplin St., at $1.72 per sq.yd.; paving 6,600 sq.yd. 1st. St. and native lake asphaltic concrete paving 13,900 sq.yd. Connor Ave., to Granite Bituminous Paving Co., Ry. Exch. Bldg., St. Louis, $1.63; also bituminous amiesite repaving 3,375 sq.yd. Broadway Viaduct, to Independent Gravel Co., 220 West 4th St. $2. Noted Sept. 22.

Mo., St. Joseph—Concrete paving, etc, 3,655 sq.yd. Seneca St., to Reinert Bros. Constr. Co., 1208 North 5th St. $14,615, 1,208 sq.yd. Yale St., to Whitman Contg. Co., 911 Corby St. $3,621, and 1 alley, to Land Constr. Co., Kirkpatrick Bldg. $702; also brick surfacing, etc. 10,645 sq.yd. Messanie St., to P. P. Young, 4209 St. Joseph Ave., $27,579. Grand total $46,517. Noted Oct. 6.

Ark., Arkadelphia — Curbing, guttering and concrete paving 65 blocks various streets, to Phoenix Constr. Co., Ft. Smith.

Tex., Hearne—Asphalt on 5 in. concrete paving various streets, to San Jacinto Constr. Co., Houston, $153,248.

Tex., Houston—City **(e.e. means engrs. est.)**, 2 in. asphalt on 6 in. concrete surfacing 4,800 ft. North Main St., 45 ft., to Smith Bros., Inc., 2402 West Dallas St., $64,511 e.e. $80,000, 2,500 ft. Woodhead St., 35 ft., to Uvalde Rock Asphalt Co., Post Dispatch Bldg. $32,272 e.e. $40,000, and 2,075 ft. Polk Ave., 35 ft., to Gulf Bitulithic Co., 2820 Polk Ave. $25,203 e.e. $30,000; also two-course bituminous treatment on gravel surfacing 19,230 ft. Harvard St., 35 ft., to S. Shambaugh, 1401 Dowling St., $54,048 e.e. $65,000.

Tex., Houston — Hermann Hospital Estate, et al., Oct. 11, 2 in. asphalt 6 in. concrete paving 32 blocks streets in Hermann Park addition, to Gulf Bitulithic Co., 2820 Polk Ave., $114,598. Engrs. est. $120,000.

Okla., Enid—Grading, curbing and sheet asphalt paving 5,800 sq.yd. 9th St., to Hyde Constr. Co., Amer. Bank Bldg., $28,721. Engrs. est. $30,000.

Okla., Oklahoma City—Grading and sheet asphalt paving, etc. 8,000 sq.yd. 15th St., to Western Paving Co., Tradesmens Bldg., $46,498. Engrs. est. $47,500.

Okla., Seminole—P. Noe, city clk., grading, curbing and 7 in. concrete paving 23,740 sq.yd. streets in Dists. 12 and 14, to Standard Paving Co., 1742 East 6th St., Tulsa, $82,216. Engrs. est. $84,000. Noted Oct. 6.

Idaho—State Hy. Comn., Boise, graveling, etc., 14,000 cu.yd. Project 21 C-32-D, and 39-C, Elmore and Gooding Counties, to D. Reed, Twin Falls, $22,925, and 19,000 cu.yd. Project 96-C, Bear Lake Co., to C. A. Robinson, Twin Falls, $84,480; also constructing 875 ft. timber bridge on Project 395 between Cassia and Minidoka Counties, to H. D. Burley, Burley, $17,999. Grand total $125,404. Noted Oct. 20.

California—State Hy. Dept., Sacramento, paving, etc. 1.9 mi. roadway between Salinas and Santa Rita, Monterey Co., to C. Wimmer, Santa Barbara, $55,499.

Calif., Chico—Grading and asphaltic concrete paving, etc. Cypress and Olive Sts., etc., to J. E. Johnston, E and Weber Sts., Stockton, $25,008. Noted Sept. 29.

Calif., Los Angeles—Grading and concrete paving, etc. Mattison and Fairview Sts., etc., to C. W. Shafer, South Hill St., $25,287.

Calif., Los Angeles—Grading and 8 in. concrete paving, etc., 166,929 sq.ft. Bradley and Sheldon Ave. Impvt. Dist., to McCray Co., 4482 Worth St., $51,657. Noted Oct. 28.

Calif., Los Angeles — Grading, curbing, guttering and paving, etc., Sherman Way, to G. R. Curtis Paving Co., 2440 East 26th St., $208,163; also improving 6th St., to M. Simunovich, 3305 West 66th St., $40,673.

Calif., Monterey—Grading and 5 and 7 in. concrete paving, etc., San Bernabe Dr., etc., to J. L. Conner, Monterey, $25,149.

Calif., Monterey Park—A. W. Langley, city clk., curbing guttering and 3 in. Durite asphaltic concrete on 3 in. disintegrated rock paving, etc. 133,300 sq.ft. Fremont

Streets and Roads (Continued)

Ave. and Mabel St., etc., to Hall-Johnson, 905 Westminister St., Alhambra, $25,310.

Calif., Redwood City—E. M. Kneese, clk. San Mateo Co., grading and asphaltic concrete paving, etc. Regent St., Ramona and Redwood Aves., etc., to Peninsula Paving Co., 58 2nd St., San Francisco, $55,827.

Calif., San Diego—Common Council, curbing and 6 in. concrete paving, etc. 198,288 sq.ft. Narragansett Ave., to B. Noble, Spreckels Bldg., $49,200.

Calif., San Diego—Grading, walks and 6 in. asphaltic concrete paving, etc., 271,911 sq.ft. 46th St., etc., to D. H. Ryan, 1615 Fern St., $82,310; also curbing, walks and 1½ in. asphaltic concrete paving 103,362 sq. ft. Alabama St., etc., to Griffith Co., 1308 Newton Ave., $40,638. Noted Oct. 6.

Calif., San Francisco—Bd. Pub. Wks., curbing, walks, widening, concrete and asphaltic concrete paving, etc. San Jose Ave., to E. T. Treacy, Call Bldg., $24,519. Noted Oct. 12.

Calif., San Jose — Grading, guttering, walks and concrete paving, etc. portions Moore and Chapman Sts., etc., to Prentiss Paving Co., Keyes and 5th Sts., $39,665.

Calif., Santa Monica—Durite asphaltic concrete paving, etc. portion 3rd St., to Kneen Paving Co., Dudley Blk., $29,955.

Calif., Santa Paula—To Southwest Paving Co., Washington Bldg., Los Angeles, improving portion Oakdale Pl., 1,000 sq.ft. 4 in. asphaltic concrete paving at $0.17 per sq.ft., 10,000 sq.ft. 3 in. $0.135, and 126,000 sq.ft. 2 in. $0.10, etc. Noted Sept. 29.

Calif., Signal Hill — Grading, curbing, guttering and bituminous paving, etc., portion Willow St., also grading, bituminous and asphaltic concrete paving, etc., portions 19th and 20th Sts., to Griffith Co., Railway Bldg., Los Angeles, $57,025 and $25,700 respectively.

Ont., Mimico—Concrete curbing, guttering and asphalt on concrete paving approximately 16,000 sq.yd. Lake Shore Rd., to Warren Bituminous Paving Co., 54 University Ave., Toronto. Engrs. est. $79,000.

Ont., Toronto—York Twp., concrete curbing, guttering and bitulithic concrete on concrete paving approximately 9,000 sq.yd. Dufferin St., to Warren Bituminous Paving Co., 54 University Ave., $42,738. Engrs. est. $45,000. Noted Sept. 29.

Buildings—Commercial

Proposed Work

Me., Bangor—STORE and OFFICE—Coe Estate, c/o G. W. Banton, 116 Hammond St., having plans prepared by Crowell & Lancaster, Exch. Bldg., 3 story and basement, 155 x 175 ft., brick, plain foundation, Main, Cross and Columbia Sts. To exceed $150,000.

Mass., Boston — APARTMENT — Owner, c/o R. T. Jackson, archt., 77 River St., having preliminary plans prepared altering 4 story and basement, brick, plain foundation, 507 Beacon St. $150,000.

Mass., Boston—MEDICAL WARD—City, Hospital Dept., J. P. Manning, soon takes bids 8 story and basement, 50 x 140 ft., brick and limestone, plain foundation, Harrison Ave. $600,000. J. H. Ritchie & associated, 250 Stuart St., archts.

Mass., Boston—OFFICE—R. M. Robbins, 209 Washington St., having revised plans prepared by J. W. Beal & Sons Co., 185 Devonshire St., altering and constructing 4 story and basement, brick and stone addition, plain foundation, 360 Commonwealth Ave. $150,000. Former bids rejected. Noted July 7.

Mass., Boston — STORE and OFFICE — S. J. Lowe, 1 State St., and E. N. Wyner, 18 Tremont St., soon take bids 3 story and basement, 40 x 240 ft., brick, steel and stone, plain foundation, 221 Washington St. $150,000. Noted Oct. 20.

Mass., Cambridge (Boston P. O.) — APARTMENT — Harlow Realty Co., 4 Brattle St., having preliminary plans prepared by Hanilton & Harlow, 4 Brattle St., 4 story and basement, brick and plain foundation, Bowdoin St. To exceed $150,000.

Mass., Cambridge (br. Boston)—STORE and OFFICE—Estate of J. H. Corcoran, 587 Massachusetts Ave., takes bids about Nov. 10, altering and constructing 2 and 3 story and basement, brick and stone, plain foundation, Massachusetts Ave. and Central Sq. $150,000. Blackall, Clapp & Whittemore, 31 West St., Boston, archts. Noted Oct. 27.

Mass., Fall River—HOME—B. P. O. E., G. Crime, chn. com., 8 South Main St., plans altering and constructing addition, Bank and Purchase Sts. $150,000 or more. Engineer and architect not selected.

Mass., Franklin — THEATRE and STORE—R. Vozella, City Mill, plans 2 story and basement, brick and steel, East Central St. $150,000-$160,000. Engineer and architect not selected.

Mass., Holyoke—BANK—Holyoke Savings Bank, L. S. Ayen treas., having plans prepared by Hutchins & French, 11 Beacon St., Boston, 1 story and basement, 60 x 105 ft., rein.-con., brick and steel, plain foundation, Chestnut and Suffolk Sts. $150,000.

Mass., Lawrence—HOSPITAL—City, J. J. Deacy, doctor, 32 Lawrence St., head Hospital dept., plans hospital To exceed $150,000. Engineer and architect not selected.

Mass., Lynn — CLUB — Boys Club of Lynn, F. A. Strong, supt., having plans prepared by Sanborn & Weed, Lynn Item Bldg., 3 story and basement, 75 x 130 ft., brick, plain foundation, 11-15 Pleasant St. $150,000. Noted May 12.

Mass., Newburyport — MASONIC TEMPLE—Masonic Temple Assn., having plans prepared by Ashton, Huntress & Alter, 477 Essex St., Lawrence, 2 and 3 story and basement, 80 x 100 ft., brick and stone, plain foundation, Green St. $150,000. Noted Sept. 22.

Mass., Newton (Ind. br. Boston)—THEATRE and STORE—Abramson & Bennett, Taylor Bldg., Auburn St., Auburndale, having plans prepared by J. A. Tuck, 164 Lincoln St., Boston, 2 story and basement, brick, steel and stone, plain foundation, Lexington St. $150,000.

Mass., Revere — AMUSEMENT HALL and STORE — Ridgeway Constr. Co., 11 Pemberton Sq., Boston, having sketches made by C. R. Greco, 11 Beacon St., Boston, 2 or 3 story and roof garden, rein.-con., brick and steel amusement hall, ballroom and stores, Revere Beach Blvd. $150,000-$300,000. Noted Oct. 20.

Mass., Winchendon — BANK — First Natl. Bank & Winchendon Savings Bank, c/o T. M. James Co., archts., 3 Park St., Boston, having sketches made 2 story and basement, rein.-con., brick and steel, Central St. $150,000. Noted Aug. 4.

R. I., Providence — MEMORIAL — City, City Clerk, City Hall, takes bids about Nov. 15, war memorial, 115 ft. high, stone, City Hall Park. $300,000. P. P. Cret, 1523 Chestnut St., Phila. Pa., archt. Noted July 14.

Conn., Hartford—OFFICE and STORE—Central Co., c/o S. Elsner, 75 Pearl St., had plans prepared by Whiton & McMahon, 805 Main St., 6 story, brick, steel, marble, tile and concrete, Main and Asylum Sts. $750,000. Noted May 26.

Conn., Hartford—OFFICE and STORE—Central Co., c/o S. Elsner, 75 Pearl St., plans 12 story, brick and steel, Main and Asylum Sts. To exceed $150,000. Engineer and architect not selected.

Conn., West Haven (br. New Haven)—APARTMENT—N. Spadoni, 169 Elm St., plans brick and steel, Elm and 4th Sts. $150,000. H. Cannici, 59 Center St., New Haven, archt.

N. Y., Annadale (mail Eltingville)—HOTEL—Kradel & Son, Inc., c/o H. Wolff, archt., 30 East 23rd St., New York City, takes bids about Dec. 15, 3 story and basement, 92 x 206 ft., brick and steel, Annadale Shores, here. $150,000.

N. Y., Brooklyn—APARTMENT—Brooklyn Syndicate, c/o Sloan & Robinson, archts., 420 Lexington Ave., New York City, having plans prepared apartment, Kings Highway and East 27th St., here. $1,000,000.

N. Y., Brooklyn—OFFICE—Corner, Bell, Russell & McNulty, 375 Pearl St., had plans prepared by Slee & Bryson, 160 Montague St., 6 story and basement office building, Willoughby and Jay Sts.

N. Y., New York — APARTMENT — Charles Lee Building, Inc., 41 East 42nd St., having plans prepared by C. Kreymborg & Son, 2534 Madison Ave., 6 story and basement, Pelham Parkway and Cruger Ave. $315,000.

N. Y., New York—APARTMENT—M. J. Holding Co., 590 East 161st St., having plans prepared by A. Rosenberg, 1440 Bway., 6 story and basement, brick and timber, plain foundation, 169th St. and Merriam Ave. $150,000.

N. Y., New York — EXCHANGE — New York Telephone Co., 15 Dey St., had plans prepared by Voorhees, Gmelin & Walker, 101 Park Ave., 3 story and basement, 40 x 90 ft., brick and steel, East 56th St. $800,000. Noted Oct. 21, 1926.

N. Y., Yonkers—APARTMENT—A. A. Carr, 1 Bright Pl., takes bids about Dec. 20, 3 and 4 story and basement apartment. $800,000. W. Haugaard, 185 Madison Ave., New York City, archt.

N. J., Belleville (br. Newark)—APARTMENT — N. Harris, archt., 20 Branford Pl., Newark, soon lets contract 5 story and basement, 50 x 125 ft., brick and steel, plain foundation, 169-71 Washington St. $150,000. Owner's name withheld. Noted Oct. 6.

N. J., Camden—BANK and OFFICE—First Natl. Bank of Camden, 2 Market St., had plans prepared by Simon & Simon, 249 Juniper St., Phila., Pa., 5 story and basement bank and office building, Bway. and Cooper St. $825,000. Noted Jan. 27.

N. J., Hackensack — GARAGE — Owner, c/o J. L. T. Tillock, archt., 173 Main St., having sketches made 5 story and basement, rein.-con., brick and steel, plain foundation. $200,000.

N. J., Irvington (br. Newark)—APARTMENT—See "Contracts Awarded."

N. J., Montclair—APARTMENT HOTEL—A. F. Company, J. Mooney, Inc., 472 Bloomfield Ave., plans brick and steel, Church St. $300,000. Engineer and architect not selected.

N. J., Montville—CLUB—Lake Valhalla Country Club, 1060 Bway., Newark, having plans prepared by F. G. Hasselman, Grand Central Terminal Bldg., New York City, 1 story, 75 x 300 ft., brick, plain foundation, here. $150,000. A. H. Summerfield, c/o owner, engr.

N. J., Newark—APARTMENT—Owner, c/o H. F. Clark, archt., 38 Clinton St., having plans prepared 12 story and basement, brick and steel, plain foundation, Wequohic Park Sect. $750,000.

N. J., Newark—APARTMENT—Owner, c/o Myers, Bigelow & Shanley, archts., 24 Walnut St., having sketches made 5 story and basement, brick and steel, plain foundation, Chancellor Ave. $150,000.

N. J., Newark—OFFICE and HOTEL—Owner, c/o W. E. Lehman, archt., 972 Broad St., having plans prepared 15 story and basement, brick and steel, plain foundation, Bridge and Broad Sts. $1,500,000.

N. J., Newark — STORE and APARTMENT — Owner, c/o B. Cirlincione, archt., 229 Orange Ave., having plans prepared 4 story and basement, brick and steel, plain foundation, Mulberry St. $150,000.

N. J., Newark — RAILROAD STATION and TERMINAL — Pennsylvania R.R. Co., T. J. Skillman, ch. engr. Broad St. Sta., Phila., Pa., had preliminary sketches made by McKim, Mead & White, 101 Park Ave., New York City, N. Y., railroad station and terminal facilities, Market and Canal Sts., here. $12,000,000.

N. J., New Brunswick—APARTMENT—Livingston Heights Realty Corp., c/o J. A. O'Connell, 392 George St., plans 5 story and basement, brick and steel, plain foundation, on 125 x 240 ft. site, Livingston Ave and Hale St. $300,000. Engineer and architect not selected.

N. J., Orange—APARTMENT—Cimirro Constr. Co., 199 South Munn Ave., Newark, plans 5 story and basement, brick and steel, plain foundation, Central Ave. and Scotland Rd. $200,000. Private plans.

N. J., Ridgewood—CLUB—B. P. O. Elks, 75 North Maple Ave., having plans prepared by F. Parson, 1123 Bway., New York City, 2 story and basement, 100 x 100 ft., brick and timber, plain foundation. $150,000.

Pa., Bryn Mawr—APARTMENT—H. H. Kline, archt., Bulletin Bldg., Phila., soon lets contract 3 story and basement, 103 x 174 ft., brick and steel, plain foundation, here, for Maple Crests Apartments Co., Natl. Bank of Philadelphia, Phila.

Pa., Phila. — APARTMENT — Schultz & Weaver archts., c/o I. Stern, Flanders Bldg., preparing preliminary plans 22 story and basement, 110 x 150 ft., rein.-con., brick and steel, plain foundation, 18th and Rittenhouse Sts. $6,000,000. This corrects report in Sept. 29 issue.

Pa., Phila. — OFFICE — Lincoln Realty Co., 6423 Vine St., having plans prepared 4 or 5 story and basement, 32 x 110 ft., brick and steel, plain foundation, 63rd and Haverford Sts. Private plans.

Md., Baltimore — SERVICE — J. E. Sperry, archt., Calvert Bldg., rejected bids Oct. 18, altering concrete and brick service building, Monument St. and Bway., for Johns Hopkins Hospital, Monument St. and Bway. $150,000. H. F. Doeleman, 516 North Charles St., engr. Noted Oct. 13.

D. C., Wash.—OFFICE—Amer. Institute of Architects, having plans prepared by D. E. Waid, 1 Madison Ave., New York City, office and headquarters, 18th St. and New York Ave., here. $495,000.

W. Va., Charleston—HOTEL—Stock Co., c/o A. S. Thomas, pres., plans 10-12 story, 100 x 150 ft., fireproof, Washington and Capitol Sts. $750,000. Engineer and architect not selected.

N. C., Charlotte—APARTMENT—M. R. Marsh, archt., Latta Arcade, preparing

Buildings—Commercial (Continued)

plans and takes bids about Dec. 26, 8 or 10 story and roof garden, 60 x 198 ft., rein.-con., concrete pile foundation, South Tryon St., for W. T. Heath, 11 East 3rd St. $500,000. Noted Sept. 2.

Ga., Waycross — HOTEL — Wallin & Comer, archt., Realty Bldg., Savannah, soon lets contract 8 story and basement, 100 x 100 ft., steel and rein.-con., plain foundation, for Community Hotel Corp. $300,000. Noted Oct. 13.

La., Coushatta—COURT HOUSE—Red River Parish Police Jury, takes bids about Nov. 28, 3 story, brick and stone courthouse and jail. $150,000. W. T. Nolan, Canal Bank Bldg., New Orleans, engr. Noted Mar. 24.

La., Lake Charles—BANK—Calcasieu Natl. Bank having plans prepared by Favrot & Livaudis, Hibernia Bank Bldg., New Orleans, 2 story and mezzanine, 70 x 157 ft., rein.-con. and brick, Ryan and Pujo Sts. $250,000.

La., New Orleans—HOSPITAL—Presbyterian Hospital had plans prepared by R. DuBuys, Hibernia Bank Bldg., 5 story, brick, Baronne and Girod Sts. $400,000.

La., New Orleans—OFFICE and STORE —N. J. Carbajal, 1708 Canal St., plans 5 story, 40 x 120 ft., rein.-con., brick and steel, plain foundation, Tulane Ave. and Saratoga St. $400,000.

O., Cleveland—APARTMENT HOTEL—Berkner Realty Co., c/o G. J. Paul of Paul Bros., Fidelity Bldg., having plans prepared by G. Ebeling, 737 Prospect Ave., 12 story and basement, brick, steel and concrete, Euclid Ave. near East 40th St. $1,500,000. Noted Aug. 25.

O., Willoughby—COMMERCIAL, THEATRE and LODGE — Willoughby Masonic Temple Co., c/o L. W. Penfield, pres., having plans prepared by J. H. Graham & Co., 1612 Euclid Ave., Cleveland, 3 story and basement, brick, steel and concrete building. $200,000.

Ind., Anderson—THEATRE and OFFICE —Seeblberg & Vesey, Ft. Wayne, having plans prepared by P. Hulsken, Lima, O., 2 and 6 story, 144 x 144 ft., rein.-con. and brick, plain foundation, 13th and Main Sts., here. $350,000.

Ind., Anderson—THEATRE—Fitzpatrick McElroy Co., Indianapolis, having plans prepared by D. Graham, 1126 Hume Mansur Bldg., Indianapolis, 2 story, 72 x 120 ft., rein.-con., brick and steel, Meridian St. near 12th St. here. $300,000.

Ind., Evansville—WAREHOUSE and GARAGE—City, J. C. Males, secy., Town Hall, having preliminary plans prepared 2 story, 80 x 200 ft., rein.-con. and brick, along Ohio River between Division and Pine Sts. $175,000. Engineer and architect not selected.

Mich., Detroit—STORE and OFFICE—Owner, c/o C. W. Brandt, archt., 1016 Francis Palms Bldg., having plans prepared 4 story and basement, 120 x 129 ft., rein.-con., brick and steel, plain foundation, Grand Rover Ave.

Mich., Fordson—COURT HOUSE and POLICE STATION—City having plans prepared by J. Kasurin, 502 Empire Bldg., Detroit, 2 story and basement, rein.-con., brick and steel, plain foundation, Michigan Ave. $250,000.

Mich., Fordson—FIRE ALARM—City having plans prepared by J. Kasurin, 502 Empire Bldg., Detroit, 2 story and basement, 90 x 170 ft., rein.-con., brick and steel, plain foundation. $150,000.

Mich., Jackson—HOSPITAL—I. O. O. F. State Home having plans prepared by J. N. Churchill, 906 Prudden Bldg., Lansing, 2 story and basement, rein.-con., brick and steel, plain foundation. $150,000.

Mich., Monroe — JAIL and COURT HOUSE—Monroe Co. W. C. Crum, clk., having preliminary plans prepared by R. M. Dunbar, 4 Kilburtz Bldg., 2 story and basement, rein.-con., brick, steel and stone, plain foundation, $200,000.

Mich., Mt. Clemens—COURT HOUSE—Macomb Co., J. H. Miller, chn. building com., Court House, plans 10 story and basement, rein.-con., brick and steel, plain foundation, Gratiot Ave. $750,000. Engineer and architect not selected.

Mich., Muskegon—HOTEL and STORE—Occidental Hotel Co. having plans prepared by Holabird & Roche, 104 South Michigan St., Chicago. Ill., 4 story, rein.-con. and brick addition, plain foundation, Western St. $400,000.

Mich., Owosso—HOTEL—Holden Owosso Co. having plans prepared by B. K. Gibson, 624 South Michigan Ave., Chicago, Ill., 6 or 10 story hotel.

Ill., Chicago — APARTMENT — A. H. Quitsow, archt., 228 North La Salle St., preparing plans and soon takes bids 3 story and basement, brick and stone, Winchester Ave. near Lawrence Ave. $168,000. Owner's name withheld.

Ill., Chicago — APARTMENT—Seventy-Three East Elm Building Corp., c/o McNally & Quinn, archts., 10 South La Salle St., having plans prepared 12 story and basement, rein.-con., brick and stone, 67-75 East Elm St. $1,000,000.

Ill., Chicago—STADIUM, etc. — South Park Comrs., 57th St. and Cottage Grove Ave., having plans prepared by L. White, 57th St. and Cottage Grove Ave., completing Soldiers Field Stadium, incl. two 150 x 1,000 ft. and one 600 ft. halls, also increasing seating capacity by 10,000 at Lake Front Park. $2,000,000. Noted Mar. 10.

Ia., Des Moines—EXCHANGE—Northwestern Bell Telephone Co., R. J. Hapley, dist. mgr., 924 Grand Ave., plans 9 story exchange building, $1,000,000, also extensions, improvements, equipment, etc. $2,800,000. Noted Feb. 2.

Mo., Kansas City—HOTEL—W. R. Jewell, 622 Chambers Bldg., having plans prepared by P. T. Drotts, Reliance Bldg., 12 story and basement, 112 x 160 ft., rein.-con. and brick, Linwood Blvd. and Harrison St. $1,000,000. Noted Sept. 29.

Mo., Kansas City—HOTEL and APARTMENT—F. C. Sharon, 107 West 10th St., having plans prepared by Boillot & Lauck, Orear-Leslie Bldg., 4 story and basement, rein.-con. and brick, 44th St. and Warwick Blvd. To exceed $150,000.

Mo., St. Louis—AQUARIUM—Bd. Zoological Control and Bd. Pub. Serv., 208 City Hall, take bids in 1928, 2 story, 220 x 227 ft., rein.-con., brick and stucco aquarium, incl. 98 concrete tanks with 1.5 in. plate glass fronts, in Forest Park. $400,000. J. E. Wallace, c/o owners, archt.

Mo., St. Louis—HOSPITAL—St. Vincent De Paul Sisters of Charity, 3225 Montgomery St., having preliminary plans prepared 5 story and basement, rein.-con., brick and stone, Kingshighway near Spalding Ave. $1,000,000.

Mo., St. Louis—HOSPITAL—Missouri Baptist Sanitarium, 919 North Taylor Ave., having preliminary plans prepared by L. B. Pendleton, 73 DeMenil Bldg., 4 story and basement, 40 x 130 ft., rein.-con., brick and stone addition, Taylor Ave.

Tex., Corpus Christi — HOTEL — North Beach Co., c/o B. A. Collins, takes bids about Nov. 10, 6 story and basement, rein.-con., tile and stucco, plain foundation, North Beach St. $300,000. Adams & Adams, Builders Exch. Bldg., San Antonio, archts.

Tex., Galveston — HOSPITAL — R. L. White, archt., c/o University of Texas, Austin, soon takes bids new nurses' home, addition to present dining room and kitchen to take in present power plant and laundry, new building for outdoor clinic, and rebuilding negro hospital, here, for John Sealy Hospital, c/o E. Randall, doctor. $500,000.

Tex., Greenville—COURTHOUSE—W. R. Ragsdale, archt., West Lee St., soon takes bids 5 story and basement courthouse, for Hunt Co., c/o N. E. Peak, judge. $400,000. Noted Oct. 20.

Tex., San Angelo — CITY HALL and AUDITORIUM — City having plans prepared by Trost & Trost, Two Republic Bldg.. El Paso, brick, stone and rein.-con. city hall and auditorium. Noted June 23.

Tex., San Antonio—APARTMENT HOTEL—J. P. Morris, c/o Brady Bldg., having preliminary plans prepared by G. Willis, 610 Builders Exch. Bldg., 4 story and part basement, fireproof, Wilson Blvd. and Mary Louise Dr. $300,000.

Wash., Bellingham — HOTEL — Owner, c/o Bellingham Development Co., having plans prepared by R. C. Reamer, 1301 4th St., Seattle, 11 story 125 x 132 ft., brick and terra cotta hotel. $500,000.

Wash., Seattle—STORE—F. McDermott, 2nd and Union Sts., takes bids about Jan. 1, Bon Marche Department Store, 5 story, basement and sub-basement, 530,000 sq.ft. floor space, rein.-con. and stone, 3rd and Pine Sts. $5,000,000. J. Graham, Dexter Hartman Bldg., archt. Noted Sept. 15.

Calif., Burbank — STUDIO — Victory Studio. Inc., c/o Boller Bros., archts., Douglas Bldg., Los Angeles, having plans prepared motion picture studio, Hollywood Way and Victory Blvd. To exceed $150,000.

Calif., Glendale—OFFICE—Professional Building Co., 1052 West 6th St., Los Angeles, having preliminary plans prepared by W. S. Hebbard, 664 I. W. Hellman Bldg., Los Angeles, 8 story and basement, 50 x 100 ft., rein.-con., Wilson St. and Maryland Ave., here. $500,000.

Calif., Los Angeles—APARTMENT—L. L. Jones, archt., 445 Douglas Bldg., preparing plans 5 story and basement, 50 x 176 ft. rein.-con., Ocean View Ave. $150,000. Owners name withheld.

Calif., Los Angeles — APARTMENT — Harrison & Cordingly having preliminary plans prepared by J. M. Conway, Professional Bldg., Beverly Hills, 4 story, 130 x 134 ft., brick and steel, Beverly Blvd. $250,000.

Calif., Los Angeles—APARTMENT—L. L. Jones, archt., 445 Douglas Bldg., preparing preliminary plans 6 story and basement, 93 x 118 ft., rein.-con., Ocean View Ave. $150,000. Owners name withheld.

Calif., Los Angeles — APARTMENT — Fidelity Holding Corp., c/o S. C. Lee, archt., Petroleum Security Bldg., had plans prepared 5 story and basement, 60 x 125 ft., North Nenmore Ave. $300,000.

Calif., Los Angeles—APARTMENT—H. Markowitz, c/o J. M. Haenke, archt., Subway Terminal Bldg., having plans prepared 6 story and basement, 60 x 150 ft., rein.-con., St. Andrews Pl. $300,000.

Calif., Los Angeles—APARTMENT—J. N. Riesenberg, c/o J. M. Haenke, archt., Subway Terminal Bldg., had plans prepared 8 story and basement, 100 x 150 ft., brick and steel, 9th St. $300,000 or more.

Calif., Los Angeles — APARTMENT — Orange County Investment Co., c/o R. M. Bates, Jr., archt., 660 South Vermont Ave., had plans prepared 5 story and basement, 115 x 132 ft., rein.-con., Mariposa Ave. $200,000.

Calif., Los Angeles — CLUB — Bel-Air Beach Club having plans prepared by E. Grey & M. Daniels, associated archts., Administration Bldg., Bel-Air, rein.-con. club, incl. dormitory, garage, swimming pool, etc. at Bel-Air Beach Club tract near Beverly Blvd. To exceed $150,000.

Calif., Los Angeles—LOFT and OFFICE —Foreman & Clark, 5th St. and Bway., takes bids about Nov. 20, 13 story and basement, 90 x 140 ft., brick and rein.-con., 7th and Hill Sts. $800,000. Curlett & Beelman, 1020 Union Bank Bldg., archts. Structural steel contract, awarded to Baker Iron Wks., 912 North Bway. Noted Aug. 11.

Calif., Los Angeles — OFFICE and GARAGE — K. Macdonald, Jr., archt., Spring-Arcade Bldg., soon takes bids 13 story and basement, 70 x 165 ft., rein.-con., South Bway., for C. H. Johnson, Commercial Exch. Bldg. $750,000.

Calif., Los Angeles — THEATRE — City Park Bd., V. M. Griffith, pres., plans outdoor theatre, approximately 10,000 seating capacity. Griffith Park. $200,000.

Calif., Riverside—HOTEL—E. Lloyd & F. Nansen, Los Angeles and associates, having plans prepared by J. M. Haenke, 1120 Subway Terminal Bldg., Los Angeles, Desert Hotel, 1 and part 2 story, rein.-con., incl. 30 cottages, golf course, tennis courts, swimming pool and stables, 29 Palms. $1,000,000.

Calif., Sacramento—LODGE—Fraternal Order of Eagles, Aerie 901, having plans prepared by Coffman, Sahlberg & Stafford, Plaza Bldg., 4 story and basement, brick and concrete, 15th and K Sts. $150,000.

Que., Outremont—APARTMENT — R. Gariepy, archt., 15 St. James St., Montreal, soon takes bids 4 story and basement, 90 x 400 ft., brick and stone, Bernard Ave., here, for Z. and J. Renaud. $500,000.

Bids Desired

Mass. Boston—(Roxbury Sta.)—APARTMENT—See "Contracts Awarded."

Mass., Boston — COMMERCIAL — New England Confectionery Co., 253 Summer St., taking bids, altering and constructing 6 story and basement, rein.-con., brick and steel addition to Building 1, plain foundation, Summer and Melcher Sts. $150,000 or more. H. B. Prescott, 259 Summer St., archt.

Mass., Brighton (Sta. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Cambridge (Boston P. O.) — APARTMENT—See "Contracts Awarded."

Mass., Lynn—APARTMENT—See "Contracts Awarded."

R. I., Cranston (mail Providence)—HOSPITAL—State, Pub. Welfare Dept., State House, Providence, taking bids brick and steel hospital, here. $160,000. G. F. Hall, 49 Westminster St., Providence, archt. Noted Aug. 4.

R. I., Lonsdale—TEMPLE—Unity Lodge 34 taking bids by U. G. Upham, Bigelow Blk., Norwood, Mass., 2 story and basement, brick and stone, plain foundation. $150,000. Noted Oct. 6.

N. Y., Long Island City—OFFICE—See "Contracts Awarded."

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York—EXCHANGE—Dec. 1, by Voorhees, Gmelin & Walker, archts.,

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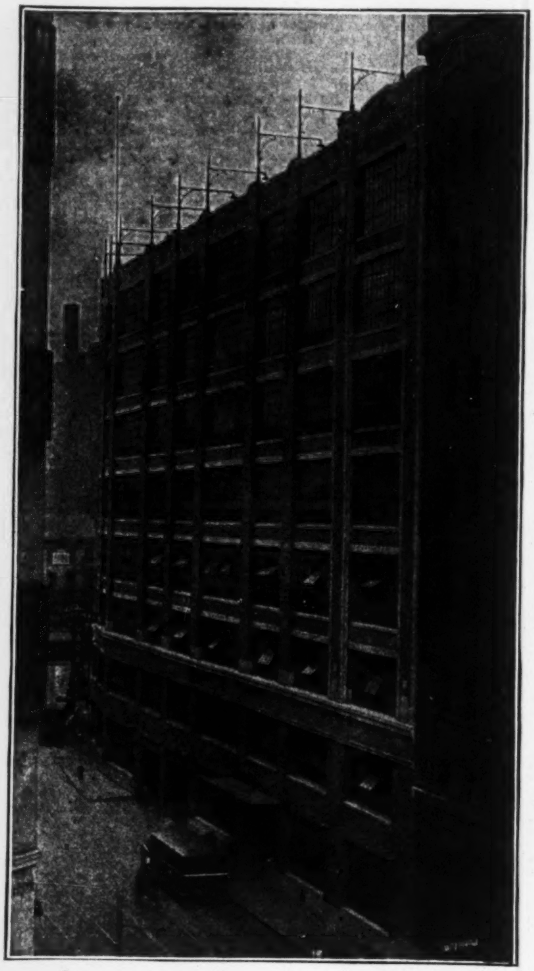

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Boston, Mass.
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Buildings—Commercial (Continued)

101 Park Ave., 7 story and basement, 90 x 260 ft., brick and steel, plain foundation, 175th St. and Grand Concourse, for New York Telephone Co., 15 Dey St. $1,500,000. Noted Apr. 8, 1926.

N. Y., Rockaway—APARTMENT—See "Contracts Awarded."

N. J., Caldwell—APARTMENT—W. J. Fitzsimmons, archt., 626 Central Ave., East Orange, taking new bids (selected list of bidders), general contract, 4 story and basement, 80 x 110 ft., brick and steel, plain foundation, Roseland and Bloomfield Aves., here, for Civic Center Investment Co., c/o I. Sisselman, 24 William St., Newark, $150,000. Noted Oct. 27.

N. J., East Orange—APARTMENT and STORE—"See Contracts Awarded."

N. J., East Orange—APARTMENT—Altshuler & Cohen, 17 Tracy Ave., Newark, taking bids 4 story and basement, 88 x 108 ft., brick and steel, plain foundation, 57 Chestnut St., here. $150,000. E. V. Warren, Essex Bldg., Newark, archt. Noted Oct. 13.

N. J., Hillside (br. Elizabeth)—APARTMENT—See "Contracts Awarded."

N. J., Irvington (br. Newark)—APARTMENT—See "Contracts Awarded."

N. J., Leonia — APARTMENT — Gerden Realty Co., Broad Ave., taking bids 5 story and basement, brick and steel, plain foundation, Broad Ave. and Christie St. $160,000. Lucht & Anderson, 432 Palisade Ave., Cliffside Park, archts.

N. J., Montclair—APARTMENT—See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awarded."

Pa., Newell — Nov. 5, by Pittsburgh & Lake Erie R.R. Co., A. R. Maymer, asst. vice-pres. and ch. engr., Pittsburgh, 4 story and basement, approximately 80 x 100 ft., concrete, brick and steel Y. M. C. A., here. $180,000. Private plans.

Pa., Phila.—APARTMENT—Nov. 4, by A. W. Hall, archt., 15th and Locust Sts., 21 story and basement, 47 x 117 ft., rein.-con., brick and steel, plain foundation, 13th and Chancellor Sts., for R. J. Seltzer, 15th and Chancellor Sts.

Pa., Pittsburgh—OFFICE and WAREHOUSE—Nov. 14, by Iron City Electric Co., 436 7th St., and Hunting, Davis & Dunnells, archts., Century Bldg., 7 story and basement, approximately 80 x 100 ft., concrete, brick and steel, 6th Ave. $350,000.

O., Cleveland—APARTMENT—Nov. 13, by H. Hradilek (owner and architect), Park Bldg., 3 story and basement, brick, steel and concrete, Edgewater Dr. $300,000. Noted Sept. 22.

O., Hamilton—HOSPITAL—Nov. 18, by E. W. Frechtling, secy. Building Comn. Ft. Hamilton Hospital Assn., Room 3, Frechtling Blk., hospital. $350,000. A. Wood, 2111 Woodward St., Detroit, Mich., F. G. Mueller and W. R. Hair, Hamilton, archts.

O., Marion—THEATRE—Palace Theatre taking bids 1 and 2 story and part basement, brick, steel and concrete, Center and Campbell Sts. $200,000. J. Eberson, 212 East Superior St., Chicago, Ill.

O., Marion — THEATRE—Nov. 10 (extended date), by Young Amusement Co., Palace Theatre, 1 story and basement, 120 x 153 ft., brick, steel and concrete theatre. J. Eberson, 212 East Superior Ave., Chicago, Ill., archt. Noted Aug. 4.

Ind., Crawfordsville — HOSPITAL — Montgomery Co. Hospital taking bids 2 story and basement, 80 x 150 ft., brick, steel and stone hospital. $160,000. Boswell & Beeson, Ben Hur Bldg., archts. Noted July 14.

Mich., Detroit—THEATRE—Nov. 10, by C. W. Brandt, archt., 2111 Woodward Ave., 1 and 2 story, 100 x 123 ft., rein.-con., limestone, brick and steel, plain foundation, Michigan St. $200,000. Owner's name withheld. Noted Oct. 13.

Mich., Kalamazoo — OFFICE — Billingham & Cobb, archts., 402 Pythian Bldg., taking bids and open same about Nov. 8, 2 story and basement, 90 x 100 ft., rein.-con., brick and steel, plain foundation, for Kalamazoo Vegetable Parchment Co., River Rd. $150,000.

Ill., Chicago—APARTMENT, OFFICE and STORE—H. Anderson, 7001 Bennett Ave., taking bids 87 x 125 ft., brick and terra cotta, 82nd St. and Cottage Grove Ave. $150,000. Lautz & Christensen, 806 West 79th St., archts.

Ill., Chicago—APARTMENT, STORE and OFFICE—Ryan, Coolidge & McArdle, 79th St. and Ashland Ave., taking bids 3 story and basement, 107 x 125 ft., brick and terra cotta, 95th St. and South Ashland Ave. $200,000. Lautz & Christensen, 806 West 79th St., archts.

Wis., Wauwatosa—HOSPITAL—Nov. 17, by Bd. Trustees Milwaukee Co. Institutions, W. I. Coffey, mgr., 8 story, basement and sub-basement, 250 x 475 ft., brick, concrete and steel, plain foundation. $1,500,000. Van Ryn, De Gelleke & Armstrong, 114 Wisconsin Ave., Milwaukee, achts. Noted July 21.

Wis., Wauwatosa—INFIRMARY — Nov. 14, by Bd. Trustees Milwaukee Co. Institutions, 3 story and basement, 200 x 235 ft., rein.-con., brick and steel, dispensary, emergency unit with 1 story, 40 x 50 ft. garage, plain foundation. $500,000. Van Ryn, De Gelleke & Armstrong, 114 Wisconsin Ave., Milwaukee, archts. Noted July 21.

Mo., St. Louis — APARTMENT — See "Contracts Awarded."

Calif., Los Angeles — APARTMENT — R. M. Bates, archt., 660 South Vermont Ave., taking bids 5 story and basement, 115 x 132 ft., rein.-con., Mariposa Ave., for Orange Co. Investment Co., Pershing Sq. Bldg., $275,000. Noted June 23.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles—LOFT and OFFICE—See "Proposed Work."

Calif., Oakland—OFFICE, STORE and GARAGE—See "Contracts Awarded."

Calif., Redondo Beach—THEATRE—See "Contracts Awarded."

Calif., San Francisco — HOTEL — See "Contracts Awarded."

Calif., San Francisco—MERCANTILE—Bliss & Fairweather, archts., Balboa Bldg., taking bids 7 story and basement, rein.-con., Fremont and Howard Sts., for Butler Bros., 495 Bway., New York City, N. Y. $700,000. Noted Sept. 1.

Ont., Ottawa — OFFICE and STORE — J. A. Evart, archt., Jackson Bldg., Bank St., taking bids and opens same about Nov. 15, 10 story and basement, rein.-con., brick and steel, Wellington St., for Wellington Investment Ltd., 128 Wellington St. $600,000. Noted Sept. 15.

Contracts Awarded

Mass., Roxbury (Sta. Boston)—APARTMENT—L. H. Levenson, 43 Wyoming St. will build 3 story and basement, 60 x 120 ft., brick and stone, plain foundation, Wyoming St. by day labor. $150,000. M. E. Levy, 7 Water St., Boston, archt.

Mass., Brighton (Sta. Boston)—APARTMENT—Chiswick Realty Co., Chiswick Rd. and Commonwealth Ave., will build 6 story and basement, 150 x 200 ft., brick and steel, plain foundation, 1786-1792 Commonwealth Ave. $700,000. Work will be done by separate contracts. S. E. Moffie, 51 Cornhill, Boston, archt.

Mass., Cambridge (Boston P. O.) — APARTMENT — Harlow Realty Co., 4 Brattle St., will build 4 story and basement, 100 x 110 ft., brick, plain foundation, Bowdoin St., $150,000 or more. Work will be done by separate contracts. Noted Oct. 26.

Mass., Hyannis—STORE and OFFICE—J. H. Johnson, 97 Massachusetts Ave., Boston, 3 story and basement, 70 x 210 ft. brick and stone, plain foundation, Main St., to C. A. Batson Co., 25 Arlington St., Brockton. Archts. est. $160,000. Noted Oct. 20.

Mass., Lynn — APARTMENT — Nason Constr. Co., Orchard St., will build 3 story and basement, brick and stone, plain foundation, Newhall St. $150,000. Work will be done by separate contracts. Private plans.

Mass., Lynn—APARTMENT—T. Palmer, Beach Bluffs, 3 story and basement, 60 x 200 ft., brick and stone, plain foundation, to Palmer Constr. Co., 165 Humphrey St., Marblehead. Archts. est. $150,000.

Conn., Bristol — ARMORY — State of Connecticut, F. E. Merrill, general contract rein.-con., brick and steel armory, Center and Vallet Sts., to W. Martin & Sons, 164 State St., Bridgeport, $119,545. Noted Oct. 6.

Conn., Danbury—THEATRE — Palace Theatre, Inc., Main St., brick and steel, 2,000 seating capacity, Main St., to T. J. Pardy Constr. Co., 1481 Seaview Ave., Bridgeport. Archts. est. $300,000.

Conn., Greenwich — APARTMENT — Lafayette Holding Co., c/o L. J. Laskin, archt., 4 South 4th Ave., Mt. Vernon, N. Y., 6 story, 65 x 80 ft., brick and steel, Putnam St., to J. Hansen, 21 West Putnam St. Archts. est. $150,000.

Conn., Meriden—OFFICE — J. A. Bergeron, 21 Sylvan Ave., 4 story 80 x 100 ft., brick and steel, West Main and Maple Sts., to L. Suzio Constr. Co., State and Brooks Sts. Archt. est. $150,000. Noted Sept. 15.

Conn., Waterbury — BUSINESS — New England 5- 10 and 25 Cent Stores, Inc., c/o G. A. Quick, archt., 170 Kneeland Rd., New Haven, 6 story 60 x 90 ft., brick and steel store and office building, East Main St., to C. Smith & Sons, Inc., 254 Main St., Derby. Archts. est. $175,000. Noted Oct. 13.

N. Y., Long Island City — OFFICE — Realty Constr. Corp., c/o Shampan & Shampan, archts., 188 Montague St., Brooklyn, will build 12 story and basement, 98 x 123 ft., brick and steel, plain foundation, 41st Ave. and Hunter St. $4,000,000. Work will be done by separate contracts. Noted Sept. 15.

N. Y., New York—APARTMENT—Six to Sixteen West 77th Street Corp., 9 East 40th St., will build 15 story, 100 x 150 ft., rein.-con., brick and steel, plain foundation, 6 West 77th St. $2,000,000. Work will be done by separate contracts. N. Korn, 9 East 40th St., archt. Noted Sept. 29.

N. Y., New York—APARTMENT—Tonlex Realty Co., Inc., will build 11 story and basement, brick and steel, 93rd St. and Lexington Ave. $500,000. Work will be done by separate contracts. G. A. Bagge & Sons, 157 East 44th St., archts.

N. Y., New York — OFFICE — One Hundred Twelve East 83rd Street Corp., c/o Block & Hesse, archts., 18 East 41st St., general contract 9 story and basement office building, 83rd St. between Park and Lexington Aves., to G. Richard Davis, 10 East 41st St. Archts. est. $500,000.

N. Y., New York—OFFICE—Western Union Co., 195 Bway., general contract 15 story and basement, brick and steel, West Bway., Thomas, Worth and Hudson Sts., to Marc Eidlitz, 41 East 42nd St. Archts. est. $6,500,000.

N. Y., Riverhead—COURTHOUSE—Bd. Supervs. Suffolk Co., general contract and electric wiring 3 story and basement, 115 x 117 ft., stone courthouse, to Wills-Egelhof & Co., 2 West 47th St., New York City, $367,040; also heating, plumbing and ventilating, to P. S. Olsen, 11 Prospect St., Huntington, $29,500. Former bids rejected. Noted Sept. 22.

N. Y., Rockaway—APARTMENT—A. Rossoff, 123 Rockaway Beach Blvd., will build 5 story and basement, 47 x 74 ft., brick and steel, Beach and 125th St. $200,000. Work will be done by separate contracts. M. Courtland, 366 5th Ave., New York City, archt.

N. Y., Syracuse—OFFICE—Syndicate, c/o Shreve & Lamb, archts., 11 East 44th St., New York, 12 story office building, South Salina and West Onondaga Sts., here, to G. Richard Davis, 10 East 40th St., New York City. Archts. est. $1,500,000-$2,500,000.

N. Y., Syracuse—SALES and SERVICE STATION—White Motor Co., c/o H. R. Hadlow, constr. engr., 842 East 79th St., Cleveland, O., 1 story, rein.-con., brick and steel, here, to G. A. Rutherford Co., 2725 Prospect Ave., Cleveland, O. Archts. est. $150,000. Noted July 14.

N. J., Bradley Beach—HOTEL—Hotel La Reine Corp., M. Sparkes, dir., Ocean Ave., 6 story and basement, brick and steel, plain foundation, La Renie Ave., to Hall Carpenter Co., Inc., Asbury Park. Archts. est. $500,000. Noted Oct. 20.

N. J., East Orange — APARTMENT — Success Constr. Co., S. Ottelsberg, pres., 26 Branford Pl., Newark, will build 4 story and basement, 50 x 115 ft., brick and steel, plain foundation, 6 Glenwood Ave. $150,000. Work will be done by separate contracts. Kasoff & Flatt, 114 Market St., Newark, archts.

N. J., East Orange — APARTMENT — Sixty-Seven South Munn Avenue, Inc., W. Lunsky, pres., 437 Central Ave., general contract 10 story and basement, 168 x 170 ft., brick and steel, plain foundation, 67 South Munn Ave., to Corona Constr. Co., Military Park Bldg., Newark. Archts. est. $1,000,000.

N. J., East Orange—APARTMENT and STORE—Tompkins Realty Co., J. Tompkins, pres., 6 Claire Ave., Woodbury, will build 4 story and basement, 95 x 100 ft., brick and steel, plain foundation, 292 Sanford St. $150,000. Work will be done by separate contracts. M. O. Klemmt, 68 Clinton Ave., Newark, arch.

N. J., Hillside (br. Elizabeth)—APARTMENT—Skakman & Levy, c/o M. J. Nadel, archt., 32 Hill St., Newark will build 3 story and basement, 80 x 150 ft., brick and steel, plain foundation, 1522 Maple Ave. $150,000. Work will be done by separate contracts. Noted Oct. 6.

N. J., Irvington (br. Newark)—APARTMENT—I. Bornstein, 157 Augusta Ave., will build 4 story and basement, brick and steel, plain foundation, 616 Lyons Ave. $150,000. Work will be done by separate contracts. E. F. Hauser, 11 Clinton St., Newark, archt. Noted Oct. 20.

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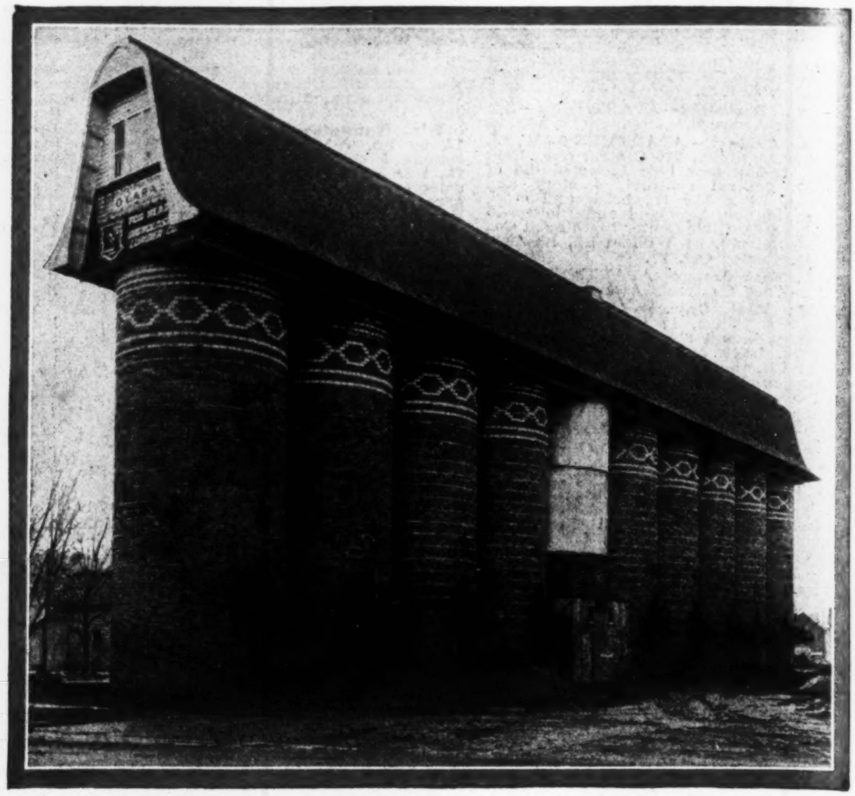

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SALT LAKE CITY
301 Atlas Block
SEATTLE
913 Arctic Bldg.

Buildings—Commercial (Continued)

N. J., Irvington (br. Newark)—APARTMENT—Stupelman & Rogovin, 108 Goodwin Ave., Newark will build 4 story and basement, 60 x 150 ft., brick and steel, plain foundation, 128-34 40th St., here. $150,000. Work will be done by separate contracts. M. J. Nadel, 32 Hill St., Newark, archt. Noted Oct. 6.

N. J., Irvington (br. Newark)—APARTMENT—H. Zukoneck, 982 Grove St., will build 3 story and basement, 100 x 100 ft., brick and steel, plain foundation, 982 Grove St. $150,000. Work will be done by separate contracts. H. V. Stromback, 1243 Springfield Ave., archt. Noted Oct. 6.

N. J., Montclair—APARTMENT—R. H. Sellers, 77 Grove St., will build 3 story and basement, 100 x 175 ft., brick and steel, plain foundation, 77 Grove St. $325,000. Work will be done by separate contracts. N. Harris, 20 Branford Pl., Newark, archt. Noted Oct. 27.

N. J., Montclair—STORE, LODGE and DANCE HALL—W. Grigsby, 22 Orange Rd., general contract 3 story and basement, 50 x 100 ft., brick and steel, plain foundation, Bloomfield Ave., to Eryeck & Ward, 40 East 49th St., New York City. Archts. est. $150,000. Noted Aug. 25.

N. J., Newark — APARTMENT — F. Francis, Inc., 90 Leslie St., will build 5 story and basement, 100 x 105 ft., brick and steel, plain foundation, 521-27 Elizabeth Ave. $300,000. Work will be done by separate contracts. R. Bottelli, 45 Branford St., archt. Noted Oct. 27.

N. J., Newark—APARTMENT—H. R. Van Duyne, Inc., 514 Kinney Bldg., general contract 5 story and basement, brick and steel, plain foundation, Parkview Terrace and Chancellor Ave., to Deakman-Wells Co., 921 Bergen Ave., Jersey City. Archts. est. $500,000. Noted July 7.

N. J., Union City—APARTMENT—A. De Senta, Palisade Ave., will build 5 story and basement, 50 x 100 ft., brick and steel, plain foundation, Palisade Ave. $150,000. Work will be done by separate contracts. P. O. Simone & Co., Inc., 100 Sip Ave., Jersey City, archts. Noted Oct. 20.

Pa., Phila.—THEATRE—Hodgens & Hill, archts., 150 South 15th St., 1 story and basement, 101 x 139 ft., brick and steel, plain foundation, 2806-11 North 5th St., to P. Harbach Contg. Co., 1261 North 26th St., for Fineman & Siltzer, c/o architects. Archts. est. $200,000. Noted July 28.

Pa., Phila.—WAREHOUSE and OFFICE—Thomas Bros., 1526 Washington Ave., 1 story and basement, 40 x 103 ft., and 40 x 160 ft. rein.-con., brick and steel, Sanson and Johnson Sts., to Max Haupt Co., 901 Walnut St.

Fla., St. Petersburg—STORE—S. H. Kress Co., 114 5th Ave., New York City, 4 story and basement, 80 x 100 ft., terra cotta and steel, Central Ave. and 5th St. N., here, to G. A. Miller Constr. Co., 312½ Twiggs St., Tampa, $225,000. Noted Oct. 6.

Miss., Jackson—HOSPITAL—Mississippi Hospital Removal Impvt. & Loan Sale Comn., R. L. Brown, secy., Jackson, 46 x 151 ft. and 56 x 155 ft. occupational therapy buildings, and 33 x 38 x 51 x 131 ft. L shaped narcotic building, with chimney, all foregoing 1 story, two 97 x 104 ft. educational buildings, and two 27 x 48 x 105 ft. W shaped infirmaries, all 2 story, also 1½ story, 57 x 93 x 159 ft. power house on State Farm, near here, to I. C. Garber, Medical Bldg., $447,800. Noted Oct. 6.

Ohio—WAREHOUSE—New York Central R.R., R. O. Rote, ch. engr., West 3rd St. and St. Clair Ave., 1 story, 35 x 615 ft., brick and steel, 4101 Lakeside St., to Walsh Constr. Co., East 40th St. and Lakeside Ave. Engrs. est. $150,000.

O., Cleveland — HOSPITAL — Rainbow Hospital, c/o M. B. Wilson, supt., 2233 East 55th St., 2 story and basement, brick, steel and concrete, Green Rd., to Craig-Curtiss Co., 4614 Prospect Ave. Archts. est. $600,000. Noted Sept. 29.

O., Cleveland — THEATRE — Midwest Properties Co., c/o S. H. Stecher, pres., Union Bldg., 1 story, brick, steel and concrete, 3,000 seating capacity, St. Clair Ave. and East 106th St., to Julius Miller Co., 10819 Drexel Ave. Archts. est. $750,000.

O., Dover—Y. M. C. A., 3 story and basement, 66 x 150 ft., brick, steel and concrete, to Mentz Lumber Co., Dover. Archts. est. $150,000. Noted Oct. 20.

Mich., Detroit—OFFICE—Smith, Hinchman & Grylls, archts. and engrs., 800 Marquette Bldg., 40 story and basement, rein.-con., brick and steel, Griswold St., to W. E. Wood Co., 1805 Ford Bldg., for Union Trust Co., Griswold St. Archts. est. approximately $8,000,000. Noted Sept. 29.

Mich., Lansing — HOSPITAL — Bowd & Munson, archts., 409 Wilson Bldg., 3 story, rein.-con., brick and steel addition, plain foundation, Michigan Ave., to H. G. Christman Co., Porter Apts., for Edward Sparrow Hospital. Archts. est. $150,000. Noted Sept. 29.

Ill., Chicago — APARTMENT — P. F. Olson, archt., 720 Cass St., masonry and concrete contract 9 story and basement, 36 x 100 ft., rein.-con., brick and stone, 6338 Oglesby Ave., to H. A. Hansen Constr. Co., 608 South Dearborn St., for J. and F. T. Anderson, and N. E. Barquist, 1824 East 79th St. and H. Mozack, 442 Oakwood Blvd. Archts. est. $350,000.

Ill., Chicago — APARTMENT — Bittersweet Building Corp., 732 Bittersweet Pl., concrete and masonry contract 13 story, 62 x 85 ft., brick and concrete, 732 Bittersweet Pl., to A. Lindstrom Co., 77 West Washington St. Archts. est. $250,000. Noted May 12.

Ill., Chicago — APARTMENT — A. J. Eisenberg, 14 West Washington St., masonry contract 3 story, 124 x 124 ft., brick, 4848-58 West Chicago Ave., to H. M. Lipman, 5079 Monroe St.; carpentry contract, to H. Kaplen & Co., 2012 Division St. Archts. est. $200,000.

Ill., Chicago — APARTMENT, HOTEL, STORE, etc.—Beacon-Wilson Corp., W. B. Le Wald, pres., 4557 Beacon St., general contract 8 story and English basement, rein.-con., tapestry, pressed brick and cut stone, on 52 x 151 ft. site, Wilson Ave. and Beacon St., to L. Paragon Constr. Co., 228 North La Salle St. Archts. est. $685,698.

Ill., Chicago — AQUARIUM — Graham, Anderson, Probst & White, archts., 80 East Jackson Blvd., general contract octagonal shaped aquarium containing 132 exhibition tanks, etc., in Grant Park, to R. C. Wieboldt Co., 1534 West Van Buren St., for John G. Shedd Equarium Society, c/o M. A. Taylor, 38 South Dearborn St. Archts. est. $3,000,000. Noted Sept. 22.

Ill., Chicago—HOTEL—G. Glube, archt., 360 North Michigan Ave., general contract 7 story, rein.-con. and terra cotta, on 50 x 125 ft. stie, 166 Milwaukee Ave., incl. bowling alley, dining room, etc., to W. G. McNulty & Bros., 58 East Washington St., for Lewis Building Corp., c/o architect. Archts. est. $350,000.

Ill., Chicago — STORE — Owner, c/o Rissman & Hirschfeld, archts., 228 North La Salle St., masonry contract 3 story (ultimately 5 story), 125 x 167 ft., terra cotta, etc., Milwaukee and Kimball Aves., to A. Goldstein, 134 North La Sallie St. Archts. est. $800,000. United Hosiery Co., 237 South Market St., lessee.

Ill., Freeport — HOTEL — C. W. Nicol, archt., 310 South Michigan Ave., Chicago, general contract 7 or 8 story and basement, 60 x 120 ft., rein.-con., brick and stone, Main and Gelana Sts., here, to R. L. Reisinger Co., 466 Oakland Ave., Milwaukee, Wis., for Stephenson Hotel Corp., 743 51st St., Milwaukee, Wis. Archts. est. $500,000.

Ill., Rockford—HOTEL—Hall, Lawrence, Ripple & Ratcliffe, archts., 123 West Madison St., general contract 11 story and basement, 156 x 184 x 187 ft., rein.-con., brick and terra cotta, 4th, State and Market Sts., to Ericcson & Benson, 123 West Madison St., Chicago; masonry and carpentry contract, to Holmquiet & Peterson, Swedish-Amer. Bank Bldg.; elevators, to Reliance Elevator Co., 212 West Austin Ave., Chicago, for Syndicate, c/o architects. Archts. est. $1,000,000. Noted May 5.

Ill., Rock Island — OFFICE — Royal Neighbors of America, Safety Bldg., general contract 3 story and basement, rein.-con., brick and Bedford stone, to Peterson & Caldwell, 646 Builders Exch. Bldg., Minneapolis, Minn. Archts. est. $400,000. Noted June 10, 1926.

Ill., Winnetka—APARTMENT, OFFICE and STORE—E. T. Leonard & Co. (owner and builder) will build 3 story and basement, 100 x 134 ft., brick and stone, Linden Ave. and Tower Rd. Archts. est. $150,000. Noted Oct. 6.

Mo., St. Louis—APARTMENTS—B. Goldberg, 5819 Wabada Ave., will build five 2 story and basement, 34 x 53 ft., and six 34 x 35 ft. rein.-con. and brick, Terry Ave. near Goodfellow St. $160,000. Work will be done by separate contracts. Private plans.

Mo., St. Louis—APARTMENT—V. A. Chinberg, 808 Chestnut St., will build 4 story and basement, 94 x 134 ft., rein.-con. brick, stone and terra cotta, Delmar and Clara Sts. $150 000. Work will be done by separate contracts. Private plans.

Tex., Abilene—EXCHANGE—Southwestern Bell Telephone Co., West Ind. Bldg., Dallas, general contract 2 story and basement, 87 x 100 ft., rein.-con., brick, stone, terra cotta and steel, concrete pile foundation, 4th and Cypress Sts., here, to J. D. Johnson, 308 Van Zandt Bldg., Ft. Worth, $132,261.

Calif., Los Angeles—APARTMENT—H. Lentzner, J. Riesenberg & S. Kleeman, 412 Western Pacific Bldg., will build 6 story, 94 x 126 ft., brick, 9th and Catalina Sts., $275,000. Work will be done by segregated contracts. E. B. Rust, 523 Black Bldg., archt.

Calif., Los Angeles—APARTMENT—C. T. McGrew & Sons, 1345 West Ocean Ave., Long Beach, will build 3-6 story, rein.-con. and brick, Ocean Blvd. $400,000. Private plans.

Calif., Los Angeles—HOSPITAL—Pacific Hospital Assn., 8 story, 135 x 149 ft., steel and rein.-con., Alvarado St. between Temple St. and Bellevue Ave., to W. D. Lee, 704 Textile Center Bldg., $450,000.

Calif., Los Angeles—STORAGE WAREHOUSE—Bekins Fireproof Storage Co., Otis and Mission Sts., San Francisco, 8 story and basement, 100 x 100 ft., rein.-con., Pico Blvd., to Bavin & Burch, 173 East Jefferson St., approximately $200,000. Noted Aug. 4.

Calif., Merced—HOTEL—R. McLeran Co. (owner and contractor), Hearst Bldg., San Francisco, will build 5 story and basement, rein.-con., 17th St. and Courthouse Dr.

Calif., Oakland—OFFICE, STORE and GARAGE—California Builders Co., 1636 Franklin St., will build 4 story and basement, 31st Ave. and East 14th St., by day labor and sub-contracts. $175,000.

Calif., Pasadena—BANK and OFFICE—Bennett & Haskell, archts., Security Bldg., 9 story and basement, 200 x 230 ft., rein.-con. and steel, Colorado St. and Madison Ave., to J. V. McNeil Co., 5860 Avalon Blvd., Los Angeles, for 1st Trust & Savings Bank, and 1st Natl. Bank. Approximately $1,000,000. Noted Oct. 6.

Calif., Redondo Beach — THEATRE — Beach Theatres Inc., or West Coast Theatres, 1619 West Washington St., Los Angeles, will build 2 story, 89 x 185 ft., brick and rein.-con. theatre. $200,000. Work will be done by separate contracts. J. P. Perrine, Lincoln Bldg., Los Angeles, archt.

Calif., San Francisco—HOTEL—D. J. Clancy, 424 Jones St., will build 6 story and basement, rein.-con., Polk St. near Turk St., by day labor and sub-contracts. $150,000. H. C. Baumann, 251 Kearny St., archt.

Buildings—Industrial

Proposed Work

Me., Portland—PLANT—Winslow & Co., Inc., Rorest Ave., plans reconstructing Plant A, 4 story, recently destroyed by fire, Forest Ave. $250,000. Engineer and architect not selected.

Mass., Attleboro—FACTORY—L. G. Balfour Co., c/o L. G. Balfour, treas., County St., plans 2 factory unit additions, North Main St. $40,000 or more. Engineer and architect not selected.

Mass., Haverhill—FACTORY — Owner, c/o. C. V. Badger, archt., 191 Merrimack St., having plans prepared 2 story, 60 x 110 ft., rein.-con. and steel, plain foundation. $65,000.

Mass., North Woburn (mail Woburn)—PATENT LEATHER PLANT—E. H. Merrill, Winchester, plans rebuilding Peterson-Merrill Plant, recently destroyed by fire. $1,000,000. Engineer and architect not selected.

R. I., Pawtucket—MILL—Superior Cabinet Wks., Inc., R. L. Norstern, 93 Newell St., rejected bids 1 story, 170 x 250 ft., brick, plain foundation, Newell St. $40,000 or more. E. G. Bullard & Son, 908 Purchase St., New Bedford, archts. Noted Sept. 22.

Conn., Hartford — POWER PLANT—Hartford Electric Light Co. plans power plant, South Meadows. $200,000.

N. Y., New York—FACTORY—Arneste Paint Co., 548 West 46th St., takes bids about Jan. 10, reconditioning and constructing paint manufacturing plant. $40,000. Cohen & Siegel, 45 West 57th St., archts.

N. J., Camden — WAREHOUSE — Terminal Corp. having plans prepared by Moores & Dunford, Inc., archts. and engrs., 110 East 42nd St., New York City, refrigeration warehouse. $1,500,000.

N. J., Newark—FACTORY—L. A. Myers, Jr., Inc., 139 Ogden Ave., having plans prepared by E. C. Epple, 9 Clinton St., 2 story, 78 x 90 ft., brick and steel, plain foundation, 137-41 Ogden Ave. $40,000.

N. J., Newark — PASTEURIZING PLANT—Sheffield Farms Co., Inc., 524

Buildings—Industrial (Continued)

West 57th St., New York City, will not construct 4 story and basement, brick and steel, plain foundation, Frelinghuysen Ave. and Empire St., here. $1,500,000. Project abandoned. Noted Dec. 24, 1925.

Pa., Chester — MANUFACTURING — Ballinger Co., archts., 12th and Chestnut Sts., Phila., soon lets contract, 3 story, 59 x 140 ft., rein.-con. and brick, plain foundation, 4th and Engle Sts., for H. H. Ward, 4th and Engle Sts.

N. C., Pine Hall — CLAY PIPE and PRODUCTS PLANT — Pine Hall Brick Co., Pine Hall, F. F. Steele, pres., Winston-Salem, plans plant manufacturing vitr., salt glazed sewer pipe, drain tile, silo tile, and other vitr. clay products, 75,000 sq.ft. floor space. $250,000.

Fla., Jacksonville — SPARK PLUG PLANT—Standard Motor Equipment Corp., C. B. Lozier, pres., Barnett Bank Bldg., purchased 17 acre site and plans (1st unit) patented aircooled spark plug plant, 7,500,000 plugs annually, Kings Rd.

Ky., Louisville — TOBACCO STORAGE WAREHOUSE—Louisville Pub. Warehouse Co., Brook and Main Sts., having plans prepared by D. X. Murphy & Co., Louisville Trust Bldg., 3 story, 300 x 300 ft., steel and brick, 10th and Hill Sts. $50,000.

O., Cincinnati—FACTORY—Rapid Electrotype Co., McMicken and Race Sts., having plans prepared by Zettel & Rapp, 1206 Mercantile Library, 2 story and basement, brick and rein.-con., plain foundation, McMicken St. $75,000.

Mich., Detroit—GARAGE—Backus Fordon & Co., 1st Natl. Bank Bldg., having plans prepared by Smith, Hinchman & Grylls, 800 Marquette Bldg., 8 story, 138 x 160 ft., rein.-con. and brick, plain foundation, Fort St.

Mich Highland Park (br. Detroit)—AUTOMOBILE FACTORY and ENGINEERING LABORATORY—Chrysler Motor Corp., 341 Massachusetts Ave., had plans prepared 4 story, 60 x 400 ft., rein.-con., brick and steel, plain foundation, Massachusetts Ave. Smith, Hinchman & Grylls, 800 Marquette Bldg., Detroit, engrs.

Ill., East St. Louis—MILK DISTRIBUTING PLANT—N. C. Davis, archt., 4908 Delmar Blvd., St. Louis, Mo., soon lets contract 90 x 90 ft. stable, 40 x 110 ft. wagon shed, and 55 x 100 ft. garage, all 1 story, also 2 story 30 x 100 ft. office and cooler building, all rein.-con. and timber, Ridge and Wimmer Sts., here, for Highland Dairy Farms Co., B. F. Tschannen, secy., 4321 Choteau Ave., St. Louis, Mo. $150,000.

Texas—UNIT STEAM POWER PLANT—San Antonio Pub. Serv. Co., 201 North St. Marys St., San Antonio, making plans additional steam power plant developing 40,000 hp. in conjunction with New Braunfels, unit (Comal Power Co.) or on 50 acre site owned by company at point on Guadalupe River near McQueen. $1,500,000. Private plans.

Tex., Borger (Plemons P.O.)—OIL REFINERY PLANT—Phillips Petroleum Co., Bartlesville, Okla., had plans prepared 10,000 bbl. plant, near here. $350,000 incl. machinery and equipment. Private plans.

Tex., Cross Plains—ICE PLANT—E. J. Roberts, 3600 Hemphill St., Ft. Worth purchased site and plans ice plant, brick, 30 ton capacity, here. $40,000.

Tex., Denton—ICE PLANT—Home Ice Co., c/o H. Kerley, Denton, having preliminary plans prepared brick, concrete and steel, 30 ton p.d. capacity, North Locust St. $45,000. Engineer selected soon.

Tex., Fort Stockton—NITROGLYCERIN PLANT—U. S. Torpedo Co., (parent owners) purchased 40 acre site and plans a plant manufacturing nitroglycerin for shooting oil wells, 2½ mi. west of here. $150,000.

Tex., Palestine — ROUNDHOUSE — International Great Northern R.R. Co., C. S. Kirkpatrick, ch. engr., Union Sta., Houston, having plans prepared roundhouse, 100 ft. turntable, etc., here. $125,000.

Tex., Quanah—POWER PLANT—West Texas Utilities Co., Abilene, had plans prepared (1st unit) 15,000 kw. power plant near here. $250,000. Private plans.

Tex., San Antonio—WAREHOUSE, etc.—Alamo Iron Wks., 130 Santa Clara St., having plans prepared new steel and sheet metal warehouse adjoining shop, here, $200,000; additional shop and warehouse in Brownsville, $150,000; also 1 and 2 story (ultimately 4 story) and basement, 100 x 300 ft. warehouse, 58,000 sq.ft. floor space, in Corpus Christi, $200,000. Private plans. Noted Sept. 22.

Tex., Texas City — POWER PLANT — Texas Gulf Power Co., Galveston, having plans prepared brick power plant adjoining pumping station, here. $300,000. Private plans. Noted Aug. 18.

Okla., Oklahoma City—PLANT—Sheffield Steel Corp., Sheffield Sta., Kansas City, Mo., W. L. Allen, pres., plans plant, here.

Calif., San Diego—LAUNDRY—Original French Laundry, 702 Front St., had plans prepared by F. Allen, Jr., 1st Natl. Bank Bldg., 2 story, 100 x 150 ft., rein.-con., 10th St. and University Ave. $150,000.

Mexico, Tamaulipas, Reynosa — POWER HOUSE — P. Clark, McAllen, Tex., having preliminary plans prepared 1 story, brick and concrete power house, here. $40,000. Private plans.

Bids Desired

Mass., Allston (Sta. Boston)—REPAIR and SERVICE GARAGE and OFFICE—See "Contracts Awarded."

Mass., Arlington — GARAGE and REPAIR SHOP—H. L. Frost Co., 20 Mill St., taking bids 2 story, 60 x 70 ft., rein.-con., brick and steel, plain foundation, Mill St. $40,000. G. E. Robinson, 80 Federal St., Boston, archt.

Mass., Boston (Dorchester Sta.)—SUB-POWER STATION—Nov. 16, by City of Boston, Transit Dept., 1 Beacon St., Ashmont Sub-Power Station, Beale St., here. $50,000. Private plans.

Mass., Boston—GARAGE and REPAIR SHOP—See "Contracts Awarded."

Mass., Cambridge (br. Boston)—SHOP—See "Contracts Awarded."

Mass., Everett (br. Boston) — SHOP — Melanson Bros., Inc., 67 Chelsea St., taking bids 1 story and basement, 75 x 110 ft., rein.-con., brick addition, plain foundation. $40,000. Private plans.

Mass., Waltham (Ind. br. Boston)—REPAIR, SERVICE GARAGE and SHOWROOM—See "Contracts Awarded."

R. I., Providence—MANUFACTURING—See "Contracts Awarded."

N. J., Montclair—POWER HOUSE—See "Contracts Awarded."

Del., Wilmington—PRESS—Every Evening Publishing Co., taking sub-bids 3 story and basement, 60 x 100 ft., brick, plain foundation, Orange and Girard Sts. Dupont Eng. Co., du Pont Bldg., archts.

Mich., Detroit—FLOUR MILL—Nov. 15, by Fraser Co., engrs., 667 East Water St., Milwaukee, Wis., 5 story, 46 x 95 ft., rein.-con., hollow tile, brick and steel addition, plain foundation, Randolph St., for Commercial Milling Co., 203 Randolph St. $70,000.

Tex., San Antonio—REFINERY PLANT—See "Contracts Awarded."

Ont., Ottawa—GARAGE—Bryson Estate taking bids rein.-con. and brick addition, plain foundation, Albert St. $75,000. Richards & Abra, 53 Metcalfe St., archts.

Contracts Awarded

Mass., Allston (Sta. Boston)—REPAIR and SERVICE GARAGE and OFFICE—R. Kredenser, 33 Wellington Hill St., Mattapan, will build 1 story, 75 x 135 ft., and 30 x 40 ft., brick and steel, plain foundation, 114-148 Western Ave., here. $40,000. Work will be done by separate contracts.

Mass., Arlington (br. Boston) — SUB-STATION — Edison Electric Illuminating Co., 39 Boylston St., Boston, 2 story, 40 x 110 ft., brick, plain foundation, Mystic St., to W. H. Bailey Co., 88 Broad St., Boston. Archts. est. $40,000. Noted Oct. 20.

Mass., Boston — FISH HANDLING PLANT—Commonwealth Ice & Cold Storage Co., A. L. Barker, 220 Northern Ave., South Boston, altering and constructing 3 story brick and steel top addition to W. T. Reed Co., 210 Devonshire St., archts. est. to exceed $40,000. Noted Oct. 27.

Mass., Boston—PLANT—Eagle Cleansers & Dyers, Inc., 70 Ceylon St., Dorchester, 2 story, 75 x 100 ft., brick, and plain foundation, Ceylon St., to A. Polin, 16 Ellington St., Dorchester.

Mass., Boston—GARAGE and REPAIR SHOP—J. H. Broderick, 101 Tremont St., will build 3 story, 300 car, rein.-con., brick and steel, plain foundation, 176-194 Ipswich St. To exceed $40,000. Work will be done by separate contracts. G. E. Robinson, 80 Federal St., archt.

Mass., Brookfield — MILL — McLaurin-Jones Co., 2 story, 66 x 122 ft. mill, to M. C. Tuttle Co., 862 Park Sq. Bldg., Boston.

Mass., Cambridge (br. Boston)—SHOP—Dewey & Almy Chemical Co., Harvey St., will build 1 story, 50 x 120 ft., brick and plain foundation, Harvey St. Work will be done by separate contracts. H. L. Kennedy 80 Boylston St Boston, archt.

Mass., Fitchburg—BAKERY—Continental Baking Co., 65 East Cottage St., Dorchester, altering and constructing 3 story, brick and steel addition, plain foundation, 15 Circle St., to F. Leroy Fox, Inc., 101 Milk St., Boston. Archts. est. $40,000.

Mass., Malden (br. Boston)—REPAIR, SERVICE and FILLING STATION — Malden Investment Co., c/o R. K. Kaulback, 112 Pleasant St., 1 story, rein.-con., plain foundation, Exchange and Abbott Sts., to L. Antico, Rock Glen Rd., Medford. Archts. est. $40,000.

Mass., New Bedford—PRODUCE TERMINAL—E. T. Fisher & Co., Union and Water Sts., 2 story and basement, 35 x 45 ft., and 55 x 65 ft., rein.-con. and timber, plain foundation, Union St., to J. W. Bishop Co., 555 Pleasant St. Noted Sept. 8.

Mass., Waltham (Ind. br. Boston)—REPAIR, SERVICE GARAGE and SHOWROOM—E. E. Smart, 809 Main St., will alter and construct 1 story, brick and stone, plain foundation, Main St., by day labor. $40,000. W. H. Haines, 32 Riverview Ave., archt. Noted Oct. 6.

R. I., Providence—MANUFACTURING — Kelman & Kelman, 628 Broad St., will build 2 story, brick, plain foundation, Borden and Globe Sts. $40,000. Private plans.

R. I., Providence — GARAGE and REPAIR SHOP—J. Conn, c/o T. J. H. Pierce, Inc., archts., 30 Allen Ave., 3 story, rein.-con. and steel, plain foundation, Chestnut and Broad Sts., to Mahoney-Tucker, 72 Weybosset St., $73,588. Noted Oct. 27.

R. I., Woonsocket — PLANT — Rhode Island Plush Mills, 1112 River St., 2 story, 45 x 150 ft., rein.-con. and brick addition, plain foundation, to Eastern Constr. Co., 335 North Main St. Archts. est. $60,000.

Conn., Sterling—PLANT—U. S. Finishing Co., 1 story, 100 x 175 ft., silk finishing plant and pump house unit, brick and concrete, here, to Pierce & Gaetz, 42 Weybosset St., Providence, R. I. Archts. est. $100,000.

Conn., Waterbury—BAKERY—Reymond Baking Co., 490 South Main St., 1 and 2 story, 110 x 175 ft., rein.-con., brick and steel baking plant, incl. garage, East Main St., to McCormick Co., South Negley St., Pittsburgh, Pa. Engrs. est. $50,000.

N. Y., Syracuse — LAUNDRY — Atlas Linen Supply Co., 818 Montgomery St., general contract laundry, to W. E. Irish, McCarthy Bldg. Archts. est. $65,000.

N. J., Montclair—POWER HOUSE—Pub. Serv. Production Co., 80 Park Pl., Newark, will build 2 story and basement, brick and steel addition, plain foundation, 58 Valley Rd., here. $50,000. Work will be done by separate contracts. Private plans.

Pa., Phila.—FACTORY—Ballinger & Co., archts., 12th and Chestnut Sts., 2 story and basement, 84 x 207 ft., brick and steel, plain foundation, Tulip and Aramingo Sts., to W. Steele & Son, 15th and Cherry Sts., for Watson Realty Co. (J. W. Watson Co.), 24th and Locust Sts. Noted Oct. 27.

Md., Baltimore—PRESS ROOM and BOLL MILL—Lock Insulator Corp., Charles Ave. and Cromwell St., 1 story, 40 x 60 ft. press room, and 2 story, 34 x 74 ft. boll mill, rein.-con. and brick, to Smith & O'Brien, 532 North Calvert St.

W. Va., Charleston — GARAGE and STORAGE—State Rd. Comn., 3 story, concrete and steel, plain foundation, to Hoover & Doddril, Charleston. Archts. est. $75,000.

N. C., Greenville—POWER and HEATING PLANT—East Carolina Teachers' College, new power house and heating plant, to Poe Piping & Heating Co., Greenville. $63,149.

Miss., Jackson—POWER HOUSE—See "Buildings—Commercial."

Tenn., Chattanooga—GARAGE—C. T. Jones, archt., James Bldg., general contract 4 story and basement, 49 x 51 x 100 x 118 x235 ft. rein.-con. garage, plain foundation, Broad St., to Mark Nelson Co., Chattanooga, for Broad Street Garage Co., Chattanooga. $92,000. Noted Sept. 22.

O., Cleveland — FACTORY, WAREHOUSE and OFFICE — Weppner-Weil Co., 926 Bway., 2 story and basement, 60 x 125 ft., brick and rein.-con., 2670 East 45th St., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $75,000.

O., Cleveland—FACTORY—Angell Nail & Chaplet Co., 2657 East 79th St., 1 story, 90 x 340 ft., brick and steel, 2637 East 79th St., to A. A. Lane Constr. Co., 1869 East 55th St. Archts. est. $125,000. Noted Oct. 20.

O., Cleveland — FACTORY — Kux-Bleisweiss Co., 326 Lakeside Ave., 1 story, 36 x 150 ft., brick and steel addition, to J.

Buildings—Industrial (Continued)

Marmelstein, 2169 East 73rd St. Archts. est. $40,000. Noted Oct. 27.

O., Columbus — REPAIR GARAGE and SALES ROOM — W. B. Zimmerman Co., 552 East Broad St., 1 story, 80 x 168 ft., steel and concrete, North High St. near Olentangy St., to M. I. Moor, 2283 Tremont Rd., approximately $45,000.

O., Galion — FACTORY — Galion Iron Wks. & Mfg. Co., 1 story, 85 x 345 ft., brick and steel, to W. J. Schirmer Co., 1720 Euclid Ave. Archts. est. $150,000. Noted July 28.

O., Youngstown—SERVICE—Natl. Refining Co., Natl. Bldg., Cleveland, service building, incl. warehouse, office, garage, etc., Mahoning St., here, to E. P. Linberger, Youngstown. $100,000.

O., Willard — FACTORY — Railway Ice Co., general contract 1 story, approximately 60 x 100 ft., steel, to Blaw-Knox Co., Blaw-Knox Bldg., Pittsburgh, Pa. Archts. est. $40,000.

Ind., South Bend—FACTORY—M. B. Skinner & Co., 562 West Washington St., Chicago, Ill., general contract 1 story and basement, 150 x 150 ft., brick and steel factory, here, to H. G. Christman & Co., 307 South Notre Dame St. Archts. est. $100,000.

Mich., Detroit—CAR HOUSE and SERVICE—Dept. Street Railways, St. Jean and Shoemaker Aves., 1 story, rein.-con., brick and steel, incl. street car yards, trackage, pits, etc., Grand River St. and Coolidge Highway, to Pine & Munnecke, 510 Murphy Bldg. Engrs. est. $100,000.

Mich., Detroit—PAINT FACTORY—Boydell Bros. White Lead & Color Co., Palmer and Cardoni Ave., 1 and 2 story, 40 x 100 ft., 47 x 100 ft., and 45 x 47 ft. factory buildings, and 30 x 45 ft. power house, etc., rein.-con. and brick, plain foundations, Palmer Blvd., to C. O. Barton, 508 Free Press Bldg. Noted Oct. 13.

Ill., Chicago—FACTORY—Interstate Iron & Steel Co., 104 South Michigan Ave., masonry and carpentry contract 1 story, 110 x 473 ft., brick, 118th St. and Burley Ave., to Fitzsimmons & Connell, 10 South La Salle St. Archts. est. $215,000.

Tex., Dayton — SUB-STATION — Gulf States Utilities Co., c/o E. S. Fitz, Beaumont, general contract brick, stone, steel and concrete electric sub-station, here, to Stone & Webster, 147 Milk St., Boston, Mass. Engrs. est. $150,000.

Tex., San Antonio—REFINERY PLANT—Humble Oil Co., c/o Frost Bldg., will build new brick and steel still, 350 hp. sheet iron boiler house, timber office building, 40 x 50 ft. steel, concrete and sheet iron warehouse, loading racks for fuel oil, etc. on Quintana Rd., 8 mi. outside city limits, by day labor. $300,000. Private plans.

Calif., Emeryville — FACTORY — C. K. Williams & Co., Easton, Pa., (1st unit), roaster building, concrete, Shell Mound Park Dist., to H. J. Christensen, 519 Ray Bldg., Oakland, approximately $100,000. Noted Apr. 7.

Buildings—Educational, Religious

Proposed Work

Mass., Amesbury — CHURCH — Sacred Heart Roman Catholic Church, J. H. Cote, pastor, having revised plans prepared by J. G. Morisette, 373 Essex St., Lawrence, 1 story and basement, brick and stone, plain foundation, Friend St. $150,000. Noted Sept. 29.

Mass., Chicopee—HIGH SCHOOL—City, J. J. Desmond, supt. schools, receiving competitive plans, Junior High School, McKinstry and Chicopee Sts. $250,000. M. W. Maloney, 23 Pearl St., Springfield, consult. archt. Noted Oct. 13.

Mass., Haverhill—CHURCH—St. James Roman Catholic Church, J. J. Graham, pastor, Winter St., had plans prepared by M. Sullivan, 100 Boylston St., Boston, 1 story and basement, brick and stone, plain foundation, Main and Sheridan Sts. $150,000.

Mass., Newton (Ind. br. Boston) — HIGH SCHOOL—City, E. O. Childs, mayor, plans Junior High School, 2 story and basement, brick and stone, Centre St. To exceed $150,000. Engineer and architect not selected.

Mass., Norwood—CHURCH—St. Catherines Parish, F. Doherty, pastor, having plans prepared by McLaughlin & Burr, 88 Tremont St., Boston, 1 story and basement, 25 x 40 ft., and 45 x 67 ft., brick and stone, plain foundation, Washington & Nahatan Sts. To exceed $150,000.

Mass., Whitinsville—CHURCH—Trinity Church, H. R. Rogers, pastor, having sketches made by C. H. Coveney, 184 Boylston St., Boston, 1 story and basement, brick and stone, plain foundation. $150,000 funds being raised for same.

R. I., Edgewood (Sta. Providence)—CHURCH—St. Paul's Roman Catholic Parish, M. J. McCabe, pastor, having plans prepared by A. J. Murphy, 25 Fenner St., Providence, 1 story and basement, brick and stone, plain foundation. $150,000.

R. I., Providence—HIGH SCHOOL—City, Pub. Building Dept., having revised plans prepared by T. J. H. Pierce, City Hall, Edith Hopkins, Jr., High School, 3 story and basement, irregular shaped, rein.-con., brick and steel, plain foundation, Charles St. $400,000.

Conn., Bridgeport—CHURCH—St. Mary's Roman Catholic Church, M. E. Wilson, pastor, plans rebuilding 1 story church, Pembroke St., destroyed by fire. $150,000. Engineer and architect not selected.

Conn., Mansfield—DORMITORY, etc.—Mansfield State Training School and Hospital, C. T. LaMoure, supt., receiving competitive plans 2 story and basement dormitory $125,000, and 1 story pavilion $25,000. Engineer and architect not selected.

Conn., New Britain—HIGH SCHOOL—City, c/o J. M. Halloran, chn. com., receiving competitive plans (from local architects), Senior High School addition, incl. gymnasium. $250,000.

N. Y., Roslyn—SCHOOL—School Bd. having plans prepared by W. Tubby, 475 5th Ave. ,New York City, 2 story, brick and steel school. $200,000.

N. Y., Trumansburg — SCHOOL — Bd. Educ., C. W. Bower, pres., having plans prepared by C. C. Ade, engr. and archt., 104 East Ave., Rochester, school. $200,000.

Pa., Irwin — CHURCH — Methodist Episcopal Congregation soon lets contract 1 and 2 story and basement, irregular shaped, stone, Walnut St. $200,000. Home Mission Bd. Architects, Methodist Episcopal Church, 1701 Arch St., Phila., archts. Noted Oct. 6.

Va., Petersburg—CHURCH, etc.—First Baptist Church soon takes bids brick and stone church and sunday school building. $200,000. H. L. Cain, Grace Street Bank & Trust Bldg., Richmond, archt.

Va., Richmond — HIGH SCHOOL — Bd. Educ. had plans prepared by C. M. Robinson, Times Dispatch Bldg., 3 story, rein.-con. and stone high school. $450,000.

Miss., Hattiesburg — CHURCH — First Baptist Church having plans prepared by Architectural Bureau Southern Baptist Convention, Nashville, Tenn., church, 1,500 seating capacity, incl. new pipe organ. $175,000.

Tenn., Erwin—HIGH SCHOOL—Unicoi Co. voted $150,000 bonds, new high school, for Bd. Educ.

Tenn., Nashville—SCHOOLS—Bd. Educ., Hume Fogg School Bldg., H. C. Weber, supt., soon takes bids East Nashville School, C. K. Colley, archt., 4th and 1st Bldg.; Hones Avenue School, G. D. Waller, archt., Independent Life Bldg.; West Nashville School, Amus & Clark, archts., Nashville Trust Bldg.; Tarbox School, H. L. Hibbs, archt., Amer. Trust Bldg.; and Negro High School, McKissock & McKissock, archts., Morris Memorial Bldg. $800,000. Noted Sept. 22.

O., Cleveland — CHURCH — First Hungarian Reformed Church, J. Herczegh, pastor, 2854 East 79th St., having plans prepared by J. S. Kelly, 4216 Prospect Ave., A. A. Hanke, 2906 Euclid Ave., and A. di Nardo, Union Bldg., 1 story, brick, Buckeye Rd. and East Blvd. $275,000.

Ind., Sheridan—SCHOOL—School Comrs., I. Harris, trustee, having preliminary plans prepared 2 story and basement, rein.-con. and brick, high and grade school. $250,000. Engineer and architect not selected.

Mich., Birmingham — CHURCH — Owner c/o Muehlman & Farrar, archts., 2231 Park St., Detroit, having plans prepared 2 story and basement, 90 x 108 ft., rein.-con., brick and steel, plain foundation, incl. auditorium 600 seating capacity, Bates St. $150,000.

Mich., Detroit — CHURCH — First Baptist Church, c/o Muhlman & Farrar, archts., 2231 Park Ave., having plans prepared 2 story and basement, 600 seating capacity, rein.-con., brick and steel, plain foundation, Willis and Bates Sts. $150,000.

Mich., Detroit—RECREATION—Owner, c/o N. C. Sorensen, archt., 2231 Park Ave., having plans prepared 5 story and basement, 100 x 175 ft., rein.-con., brick and steel, plain foundation. $300,000.

Mich., Grosse Pointe (br. Detroit)—SCHOOL—Detroit University School, 548 Parkview Ave. Detroit, having plans prepared by R. O. Derrick, 120 Madison Ave., Detroit, 2 story and part basement, 50 x 200 ft., rein.-con., brick and steel, plain foundation.

Mich., Pontiac—SCHOOL—Bd. Educ., R. Hazleton, bus. supt., plans 2 story and basement, rein.-con., brick and steel, plain foundation, East Side Dist. $200,000 bonds voted for same. Engineer and architect not selected.

Mich., Rochester—SCHOOL—Bd. Educ. having plans prepared by Van Leyen, Schilling & Keough, 3440 Cass Ave., Detroit, 2 story and basement, 18 room, rein.-con., brick and steel, plain foundation, Wilcox and 5th Sts., also Woodward School addition, Sugar St. $150,000.

Ia., Des Moines—CHURCH—J. H. Felt & Co., archts., 300 West 47th St., Kansas City, Mo., take bids about Jan. 15, 2 story and basement, L shaped, rein.-con., brick and stone, plain foundation, here, for Beaver Avenue United Presbyterian Church. $150,000. Noted Sept. 8.

Minn., Minneapolis — SCHOOL — Bd. Educ., 305 City Hall, cancelled bids to have been opened Nov. 4, 2 story and basement, 150 x 260 ft., rein.-con., brick and Bedford stone, East 53rd St. and 29th Ave. S. because of decision to change site. Will readvertise. Noted Oct. 27.

Kan., Independence — CHURCH — First Presbyterian Congregation had plans prepared by J. H. Felt & Co., 300 West 47th St., Kansas City, Mo., and soon takes bids 2 and 3 story and basement, brick and stone church. $150,000. Noted July 21.

Mo., St. Louis—SEMINARY—Preparatory Diocesan Seminary, 4244 Washington Blvd. raising $2,000,000 funds, seminary, negro school and residence for Brothers of Mary, here. Engineer and architect not selected.

Tex., Galveston—NURSES HOME—John Sealy Hospital, c/o E. Randell, chn. building comn., having plans prepared by R. L. White, c/o University of Texas, Austin, 140 room nurses home, enlarging present dining room, kitchen, power plant, laundry, 3 additional stories, etc. $500,000. Noted Sept. 1.

Calif., Hollister—HIGH SCHOOL—Hollister Union High School Dist. having preliminary plans prepared by W. H. Weeks, 369 Pine St., San Francisco, high school. $150,000 or more.

Calif., Los Angeles—EDUCATIONAL—Wilshire Blvd. Presbyterian Church having plans prepared by R. H. Orr, Corp. Bldg., 3 story and basement, rein.-con., Wilshire Blvd. $200,000.

Calif., Menlo Park—COLLEGE—Menlo School having preliminary sketches made by A. H. Hill, c/o State Architect's Office, Forum Bldg., Sacramento, group buildings, incl. main building, classroom, etc. To exceed $500,000.

Calif., Oakland—COLLEGE—College of Holy Names, 2054 Webster St., having preliminary plans prepared by J. J. Donovan, 1916 Bway., group college buildings, Warm Springs Dist. To exceed $500,000.

Ont., Hamilton — COLLEGE—McMaster University Bd. Governors, A. Matthews, chn., Bloor St. W., Toronto, plans new group college buildings, Westdale St., here. $800,000. Engineer and architect not selected.

Bids Desired

Mass., Somerville—SCHOOL—City, L. M. Conwell, mayor taking bids, altering and constructing 2 and 3 story and basement, 75 x 165 ft., and 80 x 175 ft., brick and stone addition, plain foundation, Highland Ave. $1,250,000. F. I. Cooper Corp., 172 Tremont St., Boston, archts. Noted Oct. 27.

R. I., Providence—HIGH SCHOOL—Nov. 14, by Pub. Building Dept., Junior High School, Elmgrove and Taber Ave., Sessions and Emiline Sts. $1,000,000. T. J. H. Pierce, City Hall, archt.

Conn., Bridgeport — CHURCH — First Methodist Episcopal Church, c/o Allen & Collins, archts., 75 Newbury St., Boston, Mass., taking bids 1 and 2 story and basement, brick and stone, plain foundation, here. To exceed $150,000.

N. Y., Cedar Manor (mail Jamaica)—SCHOOL—Nov. 22, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, general contract P. S. 140, 116th Ave., 166th and 167th Sts., here, for Bd. Educ., 500 Park Ave., New York City. Noted Sept. 8.

N. Y., New York—SCHOOL—Nov. 22, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, general contract addition to P. S. 82, West 176th St. from Macomb Rd. to Harrison Ave., here, for Bd. Educ., 500 Park Ave.

N. J., Ridgewood—SCHOOL—Nov. 17, at office Bd. Educ. Ridgewood Twp., Central Grammer School, West Franklin Ave. and Cottage Pl. Elementary and Junior High School, Washington Pl. and Monroe St. Fanning & Shaw, 49 Ward St., Paterson, archts.

Buildings—Educational, Religious (Cont.)

Pa., Phila.—DORMITORIES, etc.—Nov. 8, by School Dist., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., Dormitories B and C and Service Building, 1 and 2.5 story and basement, 78 x 177 ft., and 86 x 101 ft., rein.-con. and brick, plain foundation, for Thamos Shall-cross School for Boys, Andalusia Turnpike between Byberry and Knights Rds.

Pa., Reading—GYMNASIUM—Nov. 15, by Bd. Educ., A. H. Lander, supt. buildings, 8th and Washington Sts., 2 story, 117 x 242 ft., rein.-con. and brick, 13th and Olney Sts. Ritcher & Eiler, 147 North 5th St., archts.

Pa., Scottdale — AUDITORIUM and GYMNASIUM—Nov. 14, by Bd. Educ., and W. G. Eckles & Co., archts., New Castle, 1 and 2 story and basement, irregular shaped, brick and steel auditorium and gymnasium. $150,000. Noted Sept. 29.

Md., Baltimore—GYMNASIUM—Nov. 8, by Taylor & Fisher, archts., Union Trust Bldg., 2 story and basement, 74 x 187 ft., brick and steel, concrete foundation, Roland and Belvedere Aves., for Gilman School for Boys, Roland and Belvedere Aves. H. Massart, 328 North Charles St., engr.

O., Cleveland—ACADEMY—H. A. Walsh & H. E. Shimmin, associated archts., Bulkley Bldg., taking bids and open same about Nov. 15, 4 story and basement, 161 x 191 ft., brick, steel and concrete, Riverside Dr., for St. Joseph Academy, Riverside Dr. $450,000. Noted Sept. 22.

O., Cleveland—HIGH SCHOOL—Nov. 21, by Bd. Educ., F. G. Hogen, dir., 3 and 4 story, 200 x 238 ft., brick, steel and concrete, East 107th St. and Carnegie Ave. $1,750,000. G. M. Hopkinson, Auditorium Garage Bldg., archt. Noted Feb. 3.

Ind., Greencastle—CHURCH—Methodist Church taking bids 1 story and basement, 95 x 120 ft., steel and stone, Locust and Spring Sts. $300,000. A. Grindle, Western Union Bldg., Bloomington, archt. Noted Apr. 7.

Ind., Indianapolis — HIGH SCHOOL — Nov. 11, by School Comrs., Old Library Bldg., Arsenal Technical High School, two 3 story, 60 x 100 ft. wings, rein.-con. and brick, 1500 East Michigan St. $250,000. Snider & Rotz, 703 Merchants Bank Bldg., engrs. Vonnegut-Bonn-Mueller, 610 Indiana Trust Bldg., archts. Noted Sept. 22.

Ind., LaFayette—HIGH SCHOOL—Nov. 5, by School Comrs., for Jefferson High School, 2 story and basement, 165 x 185 ft., rein.-con., brick and stone, 9th and Cincinnati Sts. $250,000. W. Scholer, 301 Painters Bldg., archt.

Mich., Berrien Springs—SCHOOL—Nov. 15, by B. Burgoyne, secy. Bd. Educ., 2 story and basement, rein.-con., brick and steel, plain foundation. $150,000. Van Leyen, Schilling & Keough, 2440 Cass Ave., Detroit, archts.

Mich., Dearborn—SCHOOL—Nov. 10, by E. E. Walborn, secy. Bd. Educ., and G. D. Mason & Co., archts., Griswoid St., Detroit, 2 story and basement, 60 x 169 ft., rein.-con., brick and steel, plain foundation, $150,000.

Mich., Grosse Pointe (br. Detroit) — SCHOOL — Nov. 21, by Bd. Educ., and G. J. Haas, archt., 804 Wormer & Moore Bldg., Detroit, 3 story, 12 room, rein.-con., brick and steel, plain foundation, incl. conservatory, Kercheval St. $150,000. Noted Oct. 20.

Mich., New Troy—SCHOOL—Nov. 9, by Bd. Educ., A. English, secy., 3 story, 105 x 123 ft., rein.-con., brick and steel, plain foundation. Van Leyen, Schilling & Keough, 3440 Case Ave., Detroit, archts.

Ill., Chicago—HIGH SCHOOL—Nov. 17, by Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., Edwin G. Foreman Junior High School, North Le Claire and Belmont Aves. $1,500,000. J. C. Christensen, 650 South Clark St., archt.

Tex., Canyon—COLLEGE—Nov. 28, by Bd. Regents West Texas State Teachers College, Lockhart, 3 story, rein.-con. and brick, plain foundation. E. F. Rittenberry, 301 Blackburn Bldg., Amarillo, archt. Noted Sept. 29.

Contracts Awarded

Mass., Gardner — CHURCH — Finnish Evangelical Church, c/o Haynes & Mason, archts., 280 Main St., Fitchburg, 2 story and basement, brick and stone, plain foundation, West St., to C. Hamalainer, 266 Pleasant St. Archts. est. $150,000.

Mass., Newton (Ind. br. Boston) — SCHOOL — City, E. O. Childs, mayor, City Hall, superstructure 2 story and basement school, Pine Grove Rd. and Grove St., Newton Lower Falls, to J. MacDonald Constr. Co., 250 Stuart St., Boston, approximately $95,000; heating, to Stone-Underhill Heating & Ventilating Co., 171 Harrison Ave., Boston. Archts. est. $25,000. Noted Oct. 20.

Mass., Springfield — CHURCH — Trinity Grace Methodist Episcopal Church, c/o Allen & Collins, archts., 75 Newbury St., Boston, 1 story and basement, brick and stone, plain foundation, Church and Tower Sts., to E. F. Miner Building Co., 25 Foster St., Worcester. Archts. est. $150,000. Noted Sept. 22.

Mass., Weymouth (Ind. br. Boston)—HIGH SCHOOL—Bd. Educ., 2 story and basement, 85 x 165 ft., brick and stone, addition to Junior High School, plain foundation, Middle St., to J. Miles & Son, 393 Main St., Worcester. Archts. est. $300,000.

Vt., Rutland — HIGH SCHOOL — City, School Com., A. W. Perkins, mayor, general contract 3 story, 125 x 215 ft., brick, steel and artificial stone, Church St., to James Miles & Son, 343 Main St., Worcester, $282,587. Noted Oct. 27.

N. Y., Brooklyn—COLLEGE—Brooklyn Law School of St. Lawrence University, 305 Washington St., 8 story, 100 x 125 ft. college, 373 Pearl St., to T. O'Reilly, 415 Lexington Ave., New York City. Archts. est. $1,000,000. Noted Sept. 29.

N. Y., Brooklyn—SCHOOL—Bd. Educ., 500 Park Ave., New York City, general contract P. S. 222, Quentin Rd. between East 33rd and 34th Sts., here, to G. F. Driscoll, 548 Union St., $546,680. Noted Oct. 6.

N. Y., New York—SCHOOL—Bd. Educ., 500 Park Ave., general contract P. S. 91, Aqueduct Ave., Bronx Boro, to Kenny Bros., 33 Old Bway., $491,000. Noted Oct. 13.

N. Y., Port Washington—SCHOOLS—Bd. Educ., Senior High School, 3 story and basement, 1,000,000 cu.ft. floor space, Port Washington Ave., and 2 story and basement, 140 x 140 ft. school, Middleneck Rd. and Ave. C, to Staten Island Constr. Co., 56 Bay St., St. George, $496,000; plumbing, to J. E. Curley, Sea Cliff, $33,608; heating, to F. P. Farrell, 269 Camden St., Newark, N. J., $88,379; and electrical work, to West & Berzin, 507 5th Ave., New York City, $30,947. Grand total $648,934.

N. J., Millburn — SCHOOL — Bd. Educ., Town Hall, general contract Wyoming School, 2 story and basement, brick and steel, plain foundation, to E. M. Waldron & Co., 456 North 6th St., Newark, $171,320; heating and ventilating, to R. G. Maupai, 73 South St., Jersey City, $30,775. Noted Sept. 8.

O., Cleveland Heights (Warrensville P. O.)—SCHOOL—Bd. Educ., W. G. Nesbit, dir., 1781 Lee Rd., 2 story and basement, 76 x 240 ft., brick, steel and concrete, Oxford Rd., to M. B. Parker Constr. Co., 1836 Euclid Ave., Cleveland, $198,477. Noted Oct. 6.

Ind., Indianapolis—NURSES HOME—Methodist Hospital, 1604 North Capitol Ave., A. Smith, supt., general contract 7 story and basement, rein.-con., brick and steel, 18th St. and Capitol Ave., to L. Colvin, 823 Continental Bank Bldg. Archts. est. $500,000. Noted Oct. 6.

Mich., Detroit—CHURCH—St. Rose of Lima Church, 1643 Defer Rd., 2 story and basement, rein.-con., brick and steel, plain foundation, Defer Rd., to Cooper-Little Co., 5057 Woodward Ave. Archts. est. $150,000. Noted Feb. 24.

Neb., Nebraska City—HIGH SCHOOL—Bd. Educ., F. Heller, secy., Junior High School, 3 story and basement, 108 x 126 ft., rein.-con., brick and stone, here, to G. Robertson, 812 1st Natl. Bank Bldg., Lincoln, $113,998. Noted Oct. 13.

Ore., Portland—SCHOOL—School Dist. 1, general contract 2 story and basement, 80 x 180 ft., rein.-con., brick and terra cotta, East 17th and Shaver Sts., to A. C. Teller & Son, Portland, $189,940.

Calif., Oakland — SCHOOL — Bd. Educ., general contract brick veneer and rein.-con. annex, East 17th St., to Sullivan & Sullivan, 3021 Maxwell Ave., $102,000. Noted Oct. 6.

Federal Government Work

Proposed Work

R. I., Newport—Repairing Chimney—Spec. 5512—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans repairing chimney at Naval Training Station, here.

Pa., Pittsburgh—Maneuver Boats—U. S. Engineers Office plans 2 steel maneuver boats.

T. H., Pearl Harbor—Quarters, etc.—Spec. 5338—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans quarters, laboratory and animal house, at Naval Operating Base (Hospital), here. L. E. Gregory, ch. of Bureau.

Bids Desired

N. Y., St. George—Buoy Boats—Nov. 7, by Supt. Lighthouses, four 38 ft. buoy boats complete with 4 cylinder gasoline engines.

D. C., Anacostia (br. Wash.) — Radio Towers—Spec. 5508—Nov. 9, by Bureau Yards & Docks, Navy Dept., Wash., D. C., radio towers at Naval Air Station, here. Noted Oct. 20.

D. C., Wash.—Retaining Walls, etc.—Nov. 22, by U. S. Veterans Bureau, Arlington Bldg., retaining walls, roads, walks, fences, etc., at U. S. Veterans Hospital, Mount Alto, here.

D. C., Wash.—Memorial—Dec. 1, at office Pub. Buildings & Pub. Parks, Navy Bldg., 60 x 120 ft., steel and white marble concrete memorial, 60 ft. high, concrete pile foundation, 17th St. near E St.; adv. E. N.-R. Nov. 3. Noted May 19.

Ala., Birmingham — Remodeling — Nov. 25, by Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling 1st and 2nd floors U. S. Post Office and Court House, here. J. A. Wetmore, acting superv. archt.

Tenn., Johnson—Remodeling—Nov. 22, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

Ore., Astoria—Grading—Spec. 5506—Apr. 2, by Bureau Yards & Docks, Navy Dept., Wash., D. C., grading at Naval Radio Station, here. Former bids rejected.

California—Road—Mar. 13, by C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., Sheldon Bldg., San Francisco, grading Big Oak Flat Rd., Route 3, Yosemite Natl. Park, Mariposa Co.

Bids Received

N. H., Portsmouth — Elevator — Treas. Dept., at office Supervising Archt., Wash., D. C., 1 passenger elevator in U. S. Post Office and Custom House, here, from Haughton Elevator & Machine Co., 200 Vermont Bldg., Wash., D. C., $4,811. Noted Oct. 6.

N. H., Portsmouth—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., Oct. 26, remodeling U. S. Post Office, here, from A. J. Ross, 120 High St., Boston, Mass., $12,975. Noted Oct. 13.

New York—Dredging—U. S. Engineer Office, Army Bldg., 39 Whitehall St., New York City, Oct. 31, dredging 37,100 cu.yd. place measurement, more or less, in Browns Creek, here, from Heling Constr. Co., Lyndhurst, at $0.31 per cu.yd., total $11,501. Noted Oct. 20.

N. Y., Iona Island—Wharf—Spec. 5507—Bureau Yards & Docks, Navy Dept., Wash., D. C., Oct. 26, repairing wharf at Naval Ammunition Depot, here, from W. Parrott's Sons, Newburg, $6,150. Noted Oct. 20.

Pennsylvania—Dredging—U. S. Engineer Office, Phila., dredging in Delaware River on Marcus Hook and Bellevue Ranges, from Amer. Dredging Co., 308 Chestnut St., Phila., at $0.60 and $0.43 per cu.yd. Noted Sept. 29.

Md., Annapolis—Dredging—Spec. 5513—Bureau Yards & Docks, Navy Dept., Wash., D. C., Oct. 26, dredging by means bucket dredge, at Naval Academy, here, from Arundel Corp. Pier 2, Pratt St., Baltimore, at $0.79 per cu.yd. Noted Oct. 20.

Mo., St. Louis—Mezzanine—Treas. Dept., at office Supervising Archt., Wash., D. C., Oct. 20, new mezzanine floors in U. S. Post Office, here, from E. G. Lay, Inc., St. Louis, $4,898.

Tex., Fort Sam Houston (sta. San Antonio) — Barracks—Constructing Quartermaster, 1 infantry battalion barracks and 1 regimental headquarters, here, from Walsh & Burney, 928 North Flores St., San Antonio, $322,336 and $228,383 respectively. Noted Sept. 29.

Calif., Oakland—Dredging—U. S. Engineer Office, San Francisco, Oct. 20, dredging approximately 400,000 cu.yd. in Oakland Harbor, here, from Amer. Dredging Co., 255 California St., San Francisco, at $0.195 per cu.yd. Noted Oct. 6.

Contracts Awarded

La., New Orleans—Levee Work—U. S. Engineer Office, levee work in LaFourche, Paratario and Atchafalaya (back) Levee Dists., Item 1, to Grasser Contg. Co., Canal Commercial Bldg., $45,360; Item 2, to D. B. Hearin & Son, Baton Rouge, $64,760; Item 3, to Acme Constr. Co., Inc., Pointe a la Hache, $8,928; and Item 4, to Whiteman Constr. Co., Inc., Louisiana Bldg., $4,515. Grand total $123,563.

Federal Government Work (Continued)

Md., Camp Mead—Barracks—Constructing Quartermaster, 3 barracks buildings, here, to Palmer Spivey Co., Elizabeth Ave., Charlotte, N. C., $370,950. Noted Sept. 29.

Mich., Mt. Clemons—Sewerage System—Constructing Quartermaster, sanitary sewerage system, Selfridge Field, here, to Vanpanel & Gepeire, Mt. Clemens, $8,456. Noted Oct. 13.

T. H., Pearl Harbor—Chimneys—Spec. 5412—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete chimneys at **(a)** Navy Yard and **(b)** Submarine Base, here, to Weber Chimney Co., McCormich Bldg., Chicago, Ill., $15,365 **(a)** 120 days, **(b)** 180 days. Noted Oct. 20.

Unclassified

Proposed Work

Airport — Gardner, Mass. — Chamber of Commerce making sketches airport, John Brock Farm. $25,000-$30,000. Keniston, Inc., Concord, N. H., engrs. Noted Sept. 22.

Park and Playgrounds—Medford, Mass.—Bd. Aldermen & City Park Comn. plans laying out and constructing four park areas and playgrounds along Mystic River Banks between Wellington and Lower Mystic Lake, for City and Metropolitan Dist. Comn., 24 School St., Boston. To exceed $25,000. Private plans.

Dry Dock—Brooklyn, N. Y.—Todd Shipyards Corp., 25 Bway., New York City, making plans 750 ft. graving dry dock, at Robbins Dry Dock & Repair Co. plant, Erie Basin, here. F. R. Harris, 551 5th Ave., New York City, engr.

Telephone Extension, etc.—Des Moines, Ia.—See "Buildings—Commercial."

Subway—Little Rock, Ark.—See "Streets and Roads."

Pipe Line—Texas—Illinois Pipe Line Co., c/o W. A. Miller, San Angelo, making plans 275 mi. 10 in. pipe line from tank farm near Del Rio to the Gulf, probably Corpus Christi or Port Arthur. $5,000,000. Private plans.

Pipe Line—Texas—Magnolia Petroleum Co. making plans 225 mi. probably 10 in. pipe line from Gorman to Midland. $3,500,000. Private plans.

Oil Pipe Line—Texas—Humble Oil Co., c/o Frost Bldg., San Antonio, making plans 21 mi. 8 in. oil pipe line from Lytle to connect with refinery on Quintana Rd., 8 mi. southwest of San Antonio. $45,000. Work will probably be done by day labor.

Pumping Station, etc.—Saint Jo. Tex.—Saint Jo Oil & Gas Co., Saint Jo, plans pumping station with equipment and steel storage tanks. $100,000.

Sub-Division Development—San Angelo, Tex.—French & French made plans subdivision development, incl. water distributing system $25,000, street paving $40,000, also lighting system $15,000. Interested contractors communicate with owners direct. N. A. James, Trust Bldg., engr.

Land Development—San Francisco, Calif.—J. V. Campbell, 1072 Bryant St., plans (1st unit) sub-division work, incl. streets and sewers, on area bounded by Woodside Ave., Waithman Way, Portola Dr. and Laguna Honda Blvd. $60,000. Total $2,000,000.

Wharf and Cargo Building—Richmond, Calif.—City having plans prepared 800 ft. wharf, and 150 x 800 ft. rein.-con. cargo building. $450,000. H. J. Brunnier, Sharon

Aerodrome and Seaplane Station—Ottawa, Ont.—Dept. Natl. Defence, Slater St., plans central Canadian combined aerodrome and seaplane station for experimental work in flying from land, water and in winter, for Dominion Govt. $500,000-$800,000. J. S. Scott, c/o owner, group captain.

Grain Elevator, etc. — Sarnia, Ont. — Sarnia Brewing Co., 335 Front St., C. Kocot, mgr., having plans prepared 150,000 bu. grain elevator, rein.-con., and 52 x 260 x 300 ft. brick warehouse, Waterfront. $1,000,000.

Bids Desired

Athletic Field — Andover, Mass. — See "Contracts Awarded."

Fire Alarm System—Brooklyn, N. Y.—Nov. 11, by J. J. Dorman, comr. Fire Dept., Municipal Bldg., New York City, portion underground fire alarm system, Greenpoint, Williamsburg, Eastern Dist., Bushwick, and Ridgewood Sections, here.

Mechanical Equipment — Cedar Manor (mail Jamaica), N. Y.—Nov. 22, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, mechanical equipment in P. S. 140, 116th Ave. from 166th to 167th Sts., here, for Bd. Educ., 500 Park Ave., New York City.

Mechanical Equipment—New York, N. Y.—Nov. 22, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, mechanical equipment, incl. plumbing, heating, ventilating, electrical work, etc., in P. S. 82, West 176th St., Harrison Ave. and Macomb Rd., here, for Bd. Educ., 500 Park Ave.

Stone Wall—Manhattan, Kan.—Nov. 7, by Weigel & Winchers, archts., 806 Leavenworth St., constructing native stone wall, for Kansas State Agricultural College. $30,000.

Rip Rap Rock—Coronado, Calif.—W. T. Clark, city clk., taking bids furnishing and placing 5,000 tons rip-rap rock on Coronado Sea Wall, adjacent to Ocean Blvd.

Lighting System — Fullerton, Calif. — City Trustees taking bids ornamental lighting system on portions Luanne Rd. and Frances Ave., etc. To exceed $25,000. C. M. Thorpe, city engr.

Breakwater Wharf—Etang du Nord, Que.—Nov. 23, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., constructing breakwater wharf, here. $35,000.

Wharf Renewal—Bella Bella, B. C.—Nov. 22, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., wharf renewal, here.

Contracts Awarded

Athletic Field—Andover, Mass.—Bd. Pub. Wks., Town Hall, will grade, etc. athletic field known as Punchard High Field, by day labor. $25,000. Morse & Dickinson, Boston, and Haverhill, engrs.

Shelter House—Cambridge (br. Boston), **Mass.**—City, J. F. Terry, City Hall, concrete shelter house, Rindge Field, to J. J. Powers Co., 33 Myrtle St., $65,000. Noted Sept. 14.

Heating and Ventilating — Weymouth, Mass.—Bd. Educ., heating and ventilating in Junior High School, Middle St., to Stone-Underhill Heating & Ventilating Co., 171 Harrison Ave., Boston. Archts. est. $25,000 or more.

Airport—Bridgeport, Conn. — Bridgeport Airport, Inc., R. DeLacour, pres., constructing field with 3,000 ft. runway, northeast and southwest, 2,500 ft. runway northwest and southwest, hangars, stations, beacons, etc., filling, draining, dyking and bulkheading field also dredging 2,000 ft. channel, 300 ft. wide for hydroplanes, to W. E. Arthur & Co., 292 Madison Ave., New York City, N. Y., $300,000. Noted Oct. 13.

Station Finish—New York—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, station finish work on Montrose Ave., Wilson Ave., Bushwick Ave. and Aberdeen St. Stations, 14th St.-Eastern Rapid Transit R.R., Brooklyn and Queens Boros, to Ascher Eng. & Contg. Co., 1457 Bway., New York City, $240,510. Noted Oct. 13.

Borings—Brooklyn, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, borings along Route 107, Livingston St., Lafayette, Marcy and Union Aves., McCarron Park, Route 109, Smith and 9th Sts., Fort Hamilton Parkway, Gravesend Ave., etc., also Route 110, Fulton St., to C. E. Bunce, 1 Exchange Pl., Jersey City, N. J., $14,475. Noted Oct. 6.

Park Improvements—Brooklyn, N. Y.—Park Bd., W. R. Herrick, pres. Park Dept., Arsenal Bldg., Central Park, New York City, improving Joseph A. Guider Park, Eastern Parkway, Washington and Classon Aves., here, to Foley & Pizzo, 649 Lormier St., $26,341. Noted Oct. 6.

Road Improvements—New York, N. Y.—Park Bd., W. H. Herrick, pres. Dept. Parks, Arsenal Bldg., Central Park, removing loose and facing rock cuts rein.-con. wall in Central Park, to Valatia Constr. Co., 15 East 40th St., $11,000. Noted Oct. 13.

Subsidiary Pipes—New York, N. Y.—A. Goldman, comr. Dept. Plant & Structures, Municipal Bldg., subsidiary pipes between manholes Empire City Subway Co. and traffic post locations along Lexington and West End Aves., to C. W. Mitchell, 39 East 28th St., $10,480; and between Empire City Subway and traffic post locations along Bway., 7th, Madison, Amsterdam and Park Aves., to W. F. Kenny Co., 44 East 23rd St., $6,938. Noted Oct. 20.

Stairs — New York, N. Y. — Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., constructing stairs and platforms at track pits in main repair shop, stairway and landings, to Nelson & Landgren Co., 1632 61st St., Brooklyn, $10,457. Noted Sept. 29.

Pile Clusters — Virginia — State Hy. Comn., Richmond, 47,375 ft. southern yellow pine or cypress pile clusters for ice protection, Rappahannock River Bridge at Rappahannock, Route 13, Project S-409-B, Essex Co., to McLean Constr. Co., Fidelity Bldg., Baltimore, Md., $32,185. Noted Oct. 13.

Foundation—Mobile, Ala.—State Docks Comn., State Office Bldg., foundation for coal and hull commodity handling plant, to Doullut & Ewin, Q. & C. Bldg., New Orleans, La., $230,667. Noted Sept. 29 under "Wharf-Alabama."

Runway — Cleveland, O. — Cleveland-Union Terminal Co., Marshall Bldg., 2,000 tons steel for 3 story, 100 x 380 ft., steel runway around Union Station, Prospect Ave., to Mt. Vernon Bridge Co., Mt. Vernon. Archts. total est. $750,000.

Coke Ovens and Coal Handling Plant.—Chicago, Ill.—Youngstown Sheet & Tube Co., Youngstown, O., general contract 71 by-products coke ovens and coal handling plant, here, to H. Koppers Co., Union Trust Bldg., Pittsburgh, Pa. Engrs. est. $3,000,000.

Operators Houses, etc.—Chicago, Ill.—City, Room 406, City Hall, operators houses and enclosure walls for double leaf trunnion bascule bridge over Chicago River, on North La Salle St., to Kelly-Atkinson Co., 189 West Madison St., $229,555. Noted Aug. 4.

Subway and Approaches—Chicago, Ill.—Bd. South Park Comrs., 57th St. and Cottage Grove Ave., M. T. Connolly, secy., inner drive subway at Oakwood Blvd. and east approach to Oakwood Blvd. viaduct, incl. pipe foundation, rein.-con. footings abutments, retaining walls, sidewalks, balustrades, etc., to E. J. Albrecht, 35 South Dearborn St., $550,000. Noted Aug. 18.

Culverts—Dodge City, Kan.—See "Streets and Roads."

Subway—Pittsburg, Calif.—J. H. Wells, clk. Contra Costa Co., Martinez, subway under Southern Pacific R.R. tracks, here, to C. C. Gildersleeve, Felton, $26,205. Noted Oct. 6 under "Martinez."

Materials

Proposed Work

Water Mains—Santa Barbara, Calif.—C. E. Hasse, city purchasing agt., plans purchasing 6,000 lin.ft. 6 in. and 2,000 lin.ft. 12 in. water mains.

Bids Desired

Inorganic Dust—New York, N. Y.—Nov. 10, by J. Miller, pres. Manhattan Boro, Municipal Bldg., 1,500 tons inorganic dust.

Structural Steel and Lumber—Cincinnati, O.—Nov. 10, by Comrs. Hamilton Co., Court House, 246,500 lb. structural steel $10,846, also 6,760 lin.ft. white oak piling, 212,000 ft. structural fir timbers, 89,124 ft. No. 1 common pine and 3,667 ft. No. 2 common pine $17,642, for temporary viaduct over Cleveland, Cincinnati, Chicago & St. Louis Railroad tracks and Mill Creek, on 6th St. Noted Oct. 20.

Bids Received

Pumps, etc.—Albany, N. Y.—Bd. Contr. & Supply, City Hall, Oct. 24, from Worthington Pump & Machine Corp., 115 Bway., New York City, two 10 m.g. motor driven pump $3,200 each, and one 15 m.g. motor driven pump $17,200; from United States Cast Iron Pipe & Fdry., Burlington, N. J., 54 tons special castings at $100 per ton, and 37 tons flanged castings $140 per ton; from B. Nicoll & Co., 294 Madison Ave., New York City, 8,000 ft. 36 in. c.i pipe $36.75, 60 ft. 48 in. pipe $36.75, and 54 tons special castings $100 per ton; from Chapman Valve Mfg. Co., Indians Orchard, Mass., two 30 hydraulic gate valves $1,053 each, four 16 in. hydraulic gate valves $311, one 30 in. check valve $790, two 16 in. check valves $159 each, and one manually operated gate valve $211.

Contracts Awarded

Street Lighting Equipment — Hartford, Conn. — City, Bd. Contr. & Supply, City Hall, 15 c.i. ornamental single street lamps standards, 20 extra c.i. capital standards, double lamp and 75 c.i. ornamental double street lamp standards, to Portland Fdry., Freestone St., Portland, Conn., $4,121. Engrs. est. $5,000.

Cement — Los Angeles, Calif. — Los Angeles Co., to Monolitic Portland Cement Co., 215 West 7th St., 2,000 bbl. portland cement f.o.b. cars San Marino at $2.58 per bbl., 20,000 bbl. f.o.b. cars Sierra Madre $2.64, and 8,000 bbl. f.o.b. cars Glendale $2.60, all foregoing in sacks, total $78,760. Noted Aug. 25.

See proposal advertising on page 152

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Unit Price Lists Published in October, 1927

		Issue of
Bridge	Montana	Oct. 6
Bridge	Huntington, Mass	Oct. 13
Bridge	Chicago, Ill	Oct. 20
Bridge	Akron, Ohio	Oct. 27
Gas Pipe	Long Beach, Calif.	Oct. 20
Grading	Texas	Oct. 27
Installation of Tracks	New York, N. Y.	Oct. 13
Irrigation	Lovelock, Nev.	Oct. 13
Paving	Wyandotte, Mich.	Oct. 20
Pile Trestle	Texas	Oct. 27
Pipe	Azusa, Calif.	Oct. 6
Pipe Line	Massachusetts	Oct. 20
Retaining Wall	Detroit, Mich	Oct. 27
Road	Wyoming	Oct. 6
Road	Wyoming	Oct. 20
Road	Michigan	Oct. 20
Road	Kentucky	Oct. 20
Road	Wyoming	Oct. 27
Sewers	Laramie, Wyo.	Oct. 6
Sewer	Chicago, Ill	Oct. 6
Sewer	Sacramento, Calif.	Oct. 6
Sewer and Settling Tanks	Vineland, N. J.	Oct. 6
Sewers	Wyandotte, Mich.	Oct. 13
Sewers	Salina, Kan	Oct. 20
Sewers	Tacoma, Wash	Oct. 20
Transit Extension	Boston, Mass.	Oct. 13
Water-Works	Oxford, Md	Oct. 13
Wharf	Algiers, La.	Oct. 6

Road—New York

Bids were opened by State Highway Commission, Albany, Oct. 7, (lowest three) for constructing C. H. No. 8292, Bliss-Pike Rd., 6.31 mi., Wyoming Co., from (A) Earl C. Jones, Inc., Warsaw; (B) F. W. & J. J. Crouch, Rochester; (C) Paul R. Beals, Buffalo. The unit bids are as follows:

Clearing and grubbing (lump sum)	$1,900.00	$1,600.00	$1,900.00
Clearing and grubbing (lump sum)	100.00	100.00	100.00
101,150 cu.yd. unclass. excav	.50	.45	.48
300,000 sta. yd. overhaul		.0025	.005
220 lin.ft. 4 in. pipe underdrain	.25	.25	.25
9,000 lin.ft. 6 in. pipe underdrain	.35	.25	.20
200 lin.ft. relaying old pipe	.20	.10	.20
600 lin.ft. 18 in. rein. con. pipe	2.00	1.50	1.60
28,840 bbl. portland cement	2.50	2.60	2.76
185 cu.yd. conc. struc. 1-2-3½	20.00	18.00	18.00
15 cu.yd. con. parapet 1-2-3½	27.00	20.00	25.00
840 cu.yd. first class conc. 1-2-4	17.00	16.00	16.00
780 cu.yd. second class conc. 1-2½-5	12.00	10.00	11.00
1,200 sq.yd. conc. gutters	1.50	2.00	1.60
285 sq.yd. steel fabric, pavement	.35	.25	.27
8,000 sq.ft. steel fabric, culverts	.20	.15	.16
30,700 lb. bar reinf., struc	.05	.045	.05
72,100 lb. structural steel	.06	.055	.05
425 lb. misc. iron and steel	.12	.10	.12
2,400 lin.ft. cable guide railing	.90	.90	.95
615 conc. guide posts	3.00	2.50	2.50
68,700 sq.yd. preparing fine grade	.10	.10	.10
600 cu.yd. foundation course, R.B. gravel	1.50	.75	2.00
14,300 cu.yd. conc. pavement, 1-2-3½	7.00	8.00	7.30
42 cu.yd. conc. pavement, 1-1½-3	10.00	12.00	10.00
33,880 lin.ft. trimming shoulders	.10	.10	.10
2,450 sq.ft. bit. material waterproofing	.10	.10	.10
1,000 cu.yd. screened gravel, L. M	2.50	2.00	2.10
Maintaining traffic Br. 2 (lump sum)	250.00	410.00	500.00
Maintaining traffic Br. 3 (lump sum)	250.00	410.00	500.00
275 cu.yd. riprap	2.50	2.50	3.25
160 cu.yd. riprap grouted	5.00	4.00	5.65
1 M ft. b. m. timber and lumber	70.00	50.00	1.00
Dismantl. bridge superstr. (lump sum)	100.00	100.00	100.00
Cofferdams, pumps, etc. (lump sum)	1,100.00	800.00	1,100.00
68,700 sq.yd. metal rein. for pavement	.25	.25	.25
Totals	$305,137	$311,934	$312,753

Engineering News-Record, Issue of November 3, 1927.

Dam—Pittsburgh, Penn.

Bids were opened by U. S. Engineer Office, Pittsburgh, Sept. 30, for constructing Dam No. 6, Allegheny River, from (A) Dravo Contracting Co., Dravo Bldg. (awarded contract); (B) Winston Bros. Co. & H. H. Wilson, Masonic Bldg., Harrisburg; (C) J. F. Casey Co., Box 1753; (D) U. G. I. Contracting Co., 1401 Arch St., Philadelphia. The unit bids are as follows:

	A	B	C	D
1,140 lin.ft. cofferdam	$60.00	$90.00	$150.00	$200.00
10,115 cu.yd. common excav	1.30	.90	1.25	2.00
120 cu.yd. rock excav	3.00	1.00	8.00	7.00
18,494 cu.yd. conc	11.00	12.00	10.00	14.00
137 cu.yd. conc. paving	15.00	20.00	12.00	18.00
440 cu.yd. fill	1.00	1.00	1.00	1.00
11,480 cu.yd. riprap	6.50	6.00	6.50	6.50
5,152 cu.yd. derrick stone	6.50	6.00	6.50	8.00
50,715 lin.ft. round piles, timber	.60	.75	.90	1.00
2,008,362 lb. sheet piles, steel	.04	.04	.045	.05
443,980 ft. B.M., per M com. timber	110.00	133.00	135.00	160.00
2,465 lb. structural steel	.20	.15	.15	.12
51 lb. iron castings	.20	.25	1.00	.25
16,964 lb. bolts, etc	.10	.12	.15	.10
285 lin.ft. 2½ in. steel pipe	1.00	1.25	1.00	1.00
284 lin.ft. 2 in. steel pipe	1.00	1.00	1.00	1.00
Totals	$558,316	$617,202	$679,227	$851,472

Engineering News-Record, Issue of November 3, 1927.

Sewers—Knoxville, Tenn.

Bids were opened by Division Public Service, Sept. 26, for constructing trunk and lateral sewers in Mountain View Sewer District, 8-in. rein. con. and 10-in. vitr. clay pipe, from (A) G. M. Ferris, Knoxville, (awarded contract); (B) Dysard Construction Co., Atlanta, Ga.; (C) M. E. Mismer Construction Co.; (D) A. R. Giffen. The unit bids are as follows:

	A	B	C	D
10 manholes 0- 4 ft. deep	$40.00	$45.00	$50.00	$47.50
25 4- 6 ft.	50.00	50.00	62.50	52.50
40 6- 8 ft.	60.00	60.00	75.00	62.50
20 8-10 ft.	70.00	75.00	87.00	72.50
9 10-12 ft.	80.00	90.00	106.00	92.50
5 12-14 ft.	90.00	120.00	125.00	112.50
1 20-22 ft.	150.00	250.00	250.00	212.50
3 lampholes 0- 4 ft.	10.00	10.00	12.50	8.00
5 4- 6 ft.	12.00	15.00	15.00	9.50
4 6- 8 ft.	14.00	18.00	18.00	11.00
780 wyes 8x6 ft. deep	.60	1.00	1.50	1.25
50 lin.ft. c.i. pipe 8 in	2.50	3.00	2.50	1.50
36 lin.ft. c.i. pipe 10 in	3.00	4.00	3.50	2.50
8 in. pipe complete—				
2,500 lin.ft., 0- 4 ft. deep	.60	.85	.68	.85
4,500 lin.ft. 4- 6 ft. deep	.75	1.05	.92	1.09
8,500 lin.ft. 6- 8 ft. deep	.85	1.15	1.11	1.39
5,000 lin.ft. 8-10 ft. deep	1.15	1.50	1.62	1.79
1,200 lin.ft. 10-12 ft. deep	1.35	1.80	2.00	2.19
130 lin.ft. 12-14 ft. deep	1.60	2.50	2.40	2.59
60 lin.ft. 14-16 ft. deep	2.00	3.00	2.73	3.39
75 lin.ft. 16-18 ft. deep	2.20	3.50	3.15	4.89
150 lin.ft. 18-20 ft. deep	2.50	4.50	3.75	6.89
100 lin.ft. 20-22 ft. deep	3.50	5.50	5.00	9.89
10 in. pipe complete—				
200 lin.ft. 0- 4 ft. deep	.70	.95	.76	.96
300 lin.ft. 4- 6 ft. deep	.85	1.15	1.00	1.20
130 lin.ft. 6- 8 ft. deep	1.00	1.25	1.20	1.57
50 lin.ft. 8-10 ft. deep	1.25	1.60	1.50	1.87
75 lin.ft. 10-12 ft. deep	1.50	2.00	1.80	2.27
1,000 cu.yd. solid rock in trench	5.50	8.00	9.00	8.00
12 cu.yd. concrete, 1-2-4 mix	30.00	35.00	35.00	24.00
Time to complete	150 days	6 mos.	150 days	140 days
Totals	$34,917	$46,211	$48,097	$51,343
Plus 10%	3,492	4,621	4,809	5,134
Grand totals	38,409	50,832	52,906	56,478

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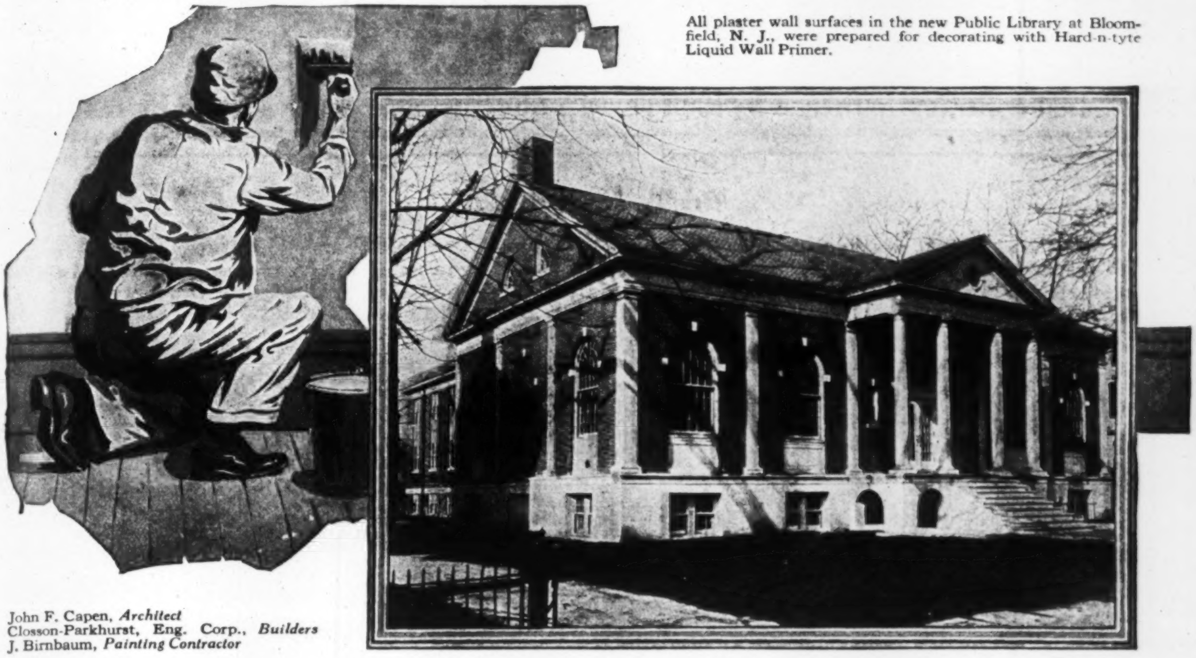
UNIT PRICES ***Continued on page 238a***

All plaster wall surfaces in the new Public Library at Bloomfield, N. J., were prepared for decorating with Hard-n-tyte Liquid Wall Primer.



John F. Capen, *Architect*
Closson-Parkhurst, Eng. Corp., *Builders*
J. Birnbaum, *Painting Contractor*

Prepare Wall Surfaces for Immediate Decorating

Hard-n-tyte
Surface Hardener

Hard-n-tyte
Decorative Coatings

Konax
Integral Waterproofing

Hard-n-tyte
Colorless Waterproofing

Making sure that the surface is right to begin with, is the only assurance of real satisfaction in applying decorative treatments to new plaster or concrete walls. Hard-n-tyte Liquid Wall Primer gives you that assurance. Beyond neutralizing the alkali action which tends to discolor decorating, it hardens the surface and so fills the pores that you save the usual priming coat of paint. When used on new plaster or concrete surfaces, decorating can proceed without delay.

General Chemical Company
40 Rector Street, New York, N. Y
Hard-n-tyte Engineering Service is available in all Principal Cities

Hard-n-tyte
REG. U. S. PAT OFF
Liquid Wall Primer

Hard-n-tyte
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Products
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UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Road—Chicago, Ill.

Bids were opened by Cook County Highway Department, Aug. 22, for constructing 135th Street Road, Section No. 3145-A, 3146 15-D, from (A) Pronger Bros., Blue Island, (awarded contract); (B) Chicago Heights Coal Co., Chicago Heights; (C) States Improvement Co., 160 North La Salle St.; (D) G. H. Summerville, Harvey; (E) Calumet Coal Co., Calumet; (F) J. Mackler & Co., Chicago Heights. The unit bids are as follows:

	A	B	C	D	E	F
81,924.4 sq.yd. conc. pavement	$2.25	$2.26	$2.30	$2.35	$2.35	$2.33
54,313 sq.yd. earth shoulders	.20	.14	.17	.14	.17	.20
37,352 cu.yd. excav	.75	.90	1.00	1.00	1.00	1.00
6,417 cu.yd. borrow	1.50	1.45	1.50	2.00	2.00	1.60
454 lin.ft. vit. pipe, 24-in	4.00	4.00	3.50	3.85	3.85	4.00
46 lin.ft. vit. pipe, 12-in	1.25	1.25	1.10	1.25	1.10	1.50
988 lin.ft. vit. pipe, 15-in	1.50	1.50	1.25	1.50	1.50	2.00
44 lin.ft. vit. pipe, 16-in	1.75	2.00	1.50	2.00	1.75	2.20
218 lin.ft. vit. pipe, 18-in	2.00	2.00	2.00	2.15	2.15	3.00
154 lin.ft. vit. pipe, 24-in	4.00	4.00	3.50	3.85	3.85	4.00
58,710 rein. steel culvert	.06	.06	.07	.06	.05	.05
570.28 cu.yd. plain concrete	30.00	30.00	28.00	25.00	30.00	30.00
2 9 cu.yd. brick hand rail	60.00	70.00	70.00	70.00	70.00	60.00
2 section markers	20.00	15.00	20.00	20.00	25.00	25.00
2 bridge name plates	75.00	65.00	65.00	55.00	75.00	70.00
1 sign post	140.00	125.00	150.00	100.00	150.00	150.00
124 cu.yd. crushed stone	4.00	3.00	3.50	3.50	4.00	3.50
36 cu.yd. scrg's	3.75	3.00	3.50	3.50	4.00	3.25
250 cu.yd. gravel	3.00	3.00	3.00	3.25	3.00	3.00
Totals	$213,016	$215,502	$222,873	$225,606	$229,599	$228,036
Checks	10,800	10,800	10,000	11,280	14,000	10,800

Engineer's estimate—$215,735

Engineering News-Record. Issue of November 3, 1927.

Water System—Gladstone, Ore.

Bids were opened by City, Oct. 3, (lowest three) for constructing water system, (A) contractor to furnish pipe, (B) city to furnish pipe, from (A) A. G. Rushlight, Portland; (B) Wright Construction Co.; (C) Woods & Corbett. The unit bids are as follows:

	A		B		C	
	A	B	A	B	A	B
12 in. class A or 50 C.I. pipe per lin.ft	$1.76	$0.30	$1.65	$0.40	$1.78	$0.31
8 in. class A or 50 C.I. pipe per lin.ft	.98	.19	.98	.25	1.02	.23
8 in. class B or 150 C.I. pipe per lin.ft	.98	.19	1.00	.25	1.02	.23
6 in. class A or 50 C.I. pipe per lin.ft	.68	.14	.70	.20	.72	.18
6 in. class B or 150 C.I. pipe per lin.ft	.68	.14	.72	.20	.72	.18
4 in. class B or 150 C.I. pipe per lin.ft	.48	.09	.54	.17	.54	.15
12 in. gate valves, each	67.55	67.55	72.00	72.00	68.00	68.00
8 in. gate valves, each	32.70	32.70	37.00	37.00	35.00	35.00
6 in. gate valves, each	22.05	22.05	22.00	22.00	24.00	24.00
4 in. gate valves, each	14.20	14.20	14.00	14.00	15.00	15.00
Cast iron specials, per lb	.08	.08	.07	.07	.09	.09
Cast iron valve boxes, each	5.00	5.00	6.00	6.00	5.50	5.50
Fire hydrants, each	98.00	98.00	95.00	95.00	92.50	92.50
Service connections, each	6.00	6.00	7.50	7.50	7.50	7.50
Small pipe connections (lump sum)	10.00	10.00	120.00	120.00	60.00	60.00
Installing master meter, etc. (lump sum)	250.00	250.00	550.00	550.00	400.00	400.00
Reservoir control valves (lump sum)	525.00	525.00	1,000.00	1,000.00	500.00	500.00
Earth excav. and backfill, per cu.yd	.44	.44	.50	.50	.60	.60
Gravel excav. and backfill, per cu.yd	.60	.60	.90	.90	1.00	1.00
Solid rock excav. and backfill, per cu.yd	3.60	3.60	5.00	5.00	4.50	4.50
Pavement cuts, per sq.yd	3.00	3.00	6.00	6.00	5.00	5.00
Concrete for res. base, etc., per cu.yd	18.00	18.00	15.00	15.00	13.50	13.50
Totals	$52,342	$27,483	$58,478	$31,195	$58,663	$33,781

Engineering News-Record, Issue of November 3, 1927.

Water System—Monroe, La.

Bids were opened by City Commissioners, Sept. 21, for improving water system, Contr. No. 1, buildings and structures, from (A) Robertson-Karr Co., Lincoln, Neb.; (B) Chanute Construction Co., Kansas City, Mo.; (C) B. E. Buffalo & Co., 658 East St., Memphis, Tenn. (awarded contract); (D) Standard Paving Co., Tulsa, Okla.; (E) W. D. Seaver Construction Co., Kansas City, Mo.; (F) Merkle Contracting Co., Kansas City, Mo.; (G) Allied Contractors, Omaha, Nebr. The unit bids are as follows:

	A	B	C	D	E	F	G
17,800 cu.yd. earth excavation	$0.80	$0.70	$0.50	$1.00	$1.50	$1.75	$2.00
4,200 cu.yd. class "A" concrete	20.00	19.00	7.85	14.50	18.40	22.00	23.10
400 cu.yd. class "B" concrete	18.00	16.00	6.90	14.50	13.00	12.00	16.50
370,000 lb. reinforcing steel	.05	.055	.02	.035	....	.035	05.
Time of completion	May 1, 1928	....	July 1, 1928	June 1, 1928	June 1, 1928	Oct. 15, 1928	Sept. 1, 1928
Totals	$202,939	$216,360	$217,543	$219,200	$241,301	$244,400	$309,647
Totals precast trim used instead	201,437	215,600	216,543	219,200	240,300	242,900	307,647

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CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Office building, New York, N. Y., A. E. Lefoourt plans, $11,000,000.

Office and loft, New York, N. Y. L. I. Brooks, archt., takes bids about Jan. 30, $6,000,000.

Power plant, Gorgas, Ala., Alabama Power Co. had plans prepared (1st unit), $5,000,000.

Bank, New York, N. Y., Bankers Trust Co. having plans prepared, $2,000,000.

Apartment, St. Louis, Mo., N. Frank plans, $2,000,000.

Garage and store, Chicago, Ill., G. E. Holmes having plans prepared, $2,000,000.

Hotel, San Antonio, Texas, A. Urrutia, Plans, $1,500,000.

Streets and roads, New Jersey, State Hy. Comn. plans improving and underpass, $1,815,000.

Apartment, New York, N. Y., J. M. Felson, archt., takes bids about Jan. 1, $1,400,000.

Apartment, Baltimore, Md., Gillet Realty Co. having plans prepared, $1,200,000.

Apartment, St. Louis, Mo., Versailles Building Co. will build, $1,200,000.

Y. M. C. A., Evanston, Ill., C. N. Stevens, pres. Bd. Directors, having plans prepared, $1,186,000.

Printing Plant, Chicago, Ill., A. S. Alschuler, archt., preparing plans, $1,000,000.

Sewers, Birmingham, Ala., Jefferson Co. made preliminary surveys, $1,000,000.

Factory, Berkeley, Calif., H. J. Heinz Corp. having plans prepared, $1,000,000.

Contracts Awarded

Shops, New York, N. Y., Bd. Transportation to Eastern Constr. Co., $4,170,000.

Office building, New York, N. Y., Wall Hanover Street Realty Co. to Starrett Bros. Archts. est. $3,000,000.

Power plant, Texas, Texas Power Corp., to Summer & Sollett Co., San Antonio, approximately $2,000,000.

Bridge, Ocean City, N. J., Ocean City, Longport Automobile Bridge Co. to Frederich Snare Corp., New York City. Engrs. est. $1,000,000.

News of the Week

Water Works

Proposed Work

Mont., Chinook—Made plans improving waterworks. $24,000. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., engrs. Noted Oct. 6.

Mo., Bolivar — Plans extending waterworks, incl. reservoirs, 250,000 gal. storage tanks and mains. $35,000.

Tex., Jasper — Voted $110,000 bonds, waterworks, incl. distributing system, pumping unit, etc. C. P. Hunter, Jasper, engr. Noted Oct. 27.

Okla., Tecumseh—Defeated $15,000 bonds, extending waterworks. O. M. Drake, Muskogee, engr. Noted May 26.

Calif., Bloomington—Making surveys 40,800 ft. 4- to 10-in. mains in various streets. To exceed $100,000.

Bids Desired

N. Y., Bethlehem (mail Glenmont)—Nov. 17, by Bd. Water Comrs. Water Dist. 1, Firemen's Hall, Delmar, water supply distribution system, here. M. Vrooman, Gloversville, engr.; adv. E. N.-R. Nov. 10.

N. Y., New York—Nov. 15, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Bailey, Baychester, Betts, Castle Hill, Delafield Aves., etc.

O., Cleveland—Nov. 16, by Bd. Comrs. Cuyahoga Co., 13,000 ft. 6 and 8 in. mains in Briar Cliff Sub-division 6, Impvt. 855. F. Williams, Court House, engr.

Mich., Detroit—Dec. 14, by Bd. Water Comrs., 176 East Jefferson Ave., constructing Pennsylvania Ave. Tunnel. G. H. Fenkell, genl. mgr. and ch. engr.; adv. E. N.-R. Nov. 10.

Ill., Chicago—Nov. 15, by City, Room 207, City Hall, water service pipes in portions 24 streets and avenues. M. J. Faherty, pres. Bd. Local Impvts.

Tex., Devine—Nov. 15, by City, waterworks improvement, incl. deep well pump, electrical distribution system, switchboard for power and light, conduits, etc. $28,000. Walton & Arneson, 418 Gunter Bldg., San Antonio, engrs. Noted Oct. 6.

Okla., North Miami (mail Miami)—Nov. 17, by I. O. Stevens, city clk., wells, triplex pump and motor, and 8,900 ft. 4 and 6 in. mains, etc., in various streets. $15,000. Engineer not announced.

Colo., Pueblo—Nov. 14, by D. P. Porter, engr. and supt. Trustees Pueblo Water Works, 319 West 4th St., 7,840 lin.ft. 41 in. concrete steel (not less than ¼ in. plate), c.i., continuous wood stave fir, creosoted, or redwood flow line from settling reservoir to pumping station. Noted Oct. 13.

Ont., St. Catharines—Nov. 11, by L. S. Bessey, clk. Grantham Twp., 4,400 lin.ft. 4 and 6 in. c.i. mains, valves, hydrants, etc., in various streets. $20,000. Rutherford & Ure, 24 Queen St., engrs.

Contracts Awarded

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Gerritsen Ave., here, to N. DeStefano, 257 Glenn Ave., Tompkinsville, $18,413. Noted Oct. 20.

N. Y., Richmond (sta. Staten Island)—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Arden and Bache Aves., etc., to G. V. Cornell, Rosebank, $33,800. Noted Nov. 3.

N. J., Denville—Twp. Com., Town Hall, water supply and distribution system, to C. Plansoen, 25 Hobart Pl., Garfield, $73,901. Noted Oct. 13.

Wis., West Bend — Common Council, drilling artesian well and furnishing pump, to F. M. Grey, Jr., Inc., 471 52nd St., Milwaukee, $9,500. Engrs. est. $10,000.

Ark., Fort Smith—General contract 8 m.g.d. high lift condensing turbo-centrifugal pumping engine, total lift 235 ft., and 8 m.g.d. low lift condensing turbo-centrifugal pumping engine, total lift 55 ft., to De Laval Steam Turbine Co., 432 Dwight Bldg., Kansas City, Mo., $34,100 and $6,900 respectively. Noted Sept. 29.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Wash., Aberdeen—C. A. Watkins, supt. Water Dept. (1st unit), concrete lined tunnel and sinking 2 shaft one 60 ft. and other 180 ft. deep for industrial water system on lower Wynooche, to Siems-Carlson Co., Portland, Ore., $545,626.

Calif., Burlingame—For 10- to 16-in. c.i. mains, etc., in various streets, to J. Currie, 1100 Peninsula Ave., $17,810.

Sewers

Proposed Work

N. J., Margate (mail Ventnor)—Bd. City Comrs., J. W. Risley, mayor, plans drains in several streets. $75,000.

N. J., Seaside Heights—Mayor and Boro Council, M. A. Tindall, clk. making plans sewerage system, disposal plant, etc. $250,000. H. M. Herbert, Seaside Heights, engr.

Ala., Birmingham—Jefferson Co. made preliminary surveys 12 mi. 40 in. sewer from Irondale to point 1½ mi. beyond Edgewater Lake covering Homewood Sect., Redmont Park, Mountain Brook Estate, Rockridge Park and Hollywood. $1,000,000. L. H. Salter, Birmingham, co. sanitary engr.

Tenn., Bolivar—Voted $50,000 bonds, sewers in various streets.

O., Rocky River (br. Cleveland) — Bd. Comrs. Cuyahoga Co. (Cleveland), making surveys enlarging sewage disposal plant, here. $75,000. G. B. Gascoigne, Leader Bldg., Cleveland, engr.

Tex., Palestine — City plans purchasing privately owned sewerage system, and plans expending $60,000 improving same, incl. extension mains, and enlargement disposal plant. Address Mayor.

Bids Desired

N. Y., Long Island City — Nov. 14, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in 84th and 85th Sts., 147th, 107th, 109th and 18th Aves., etc.

O., Akron—Nov. 17, by W. F. Peters, dir. Pub. Serv., 17,135 ft. 8- to 48-in. vitr. clay sewer, etc., in Gorge Blvd. et al. $143,400. J. E. Root, Municipal Bldg., engr.

O., Cleveland—Nov. 16, by Bd. Comrs. Cuyahoga Co., 7,700 ft. 12- to 36-in. vitr. clay, concrete or segmental block sewer in Parma Park Blvd. and Pleasant Valley Rd., Impvt. 119. F. Williams, Court House, engr.

Mich., Halfway — Nov. 16, by A. J. Wendt, village clk., Municipal Bldg., sewers in Dist. 6. H. R. O'Mara, village engr.; adv. E. N.-R. Nov. 10.

Ill., Chicago—Nov. 15, by City, Room 207, City Hall, tile sewers with brick manholes and brick catch basins in portions 2 streets and 8 avenues; and drains in portions 27 streets and avenues. M. J. Faherty, pres. Board Local Impvts.

Ill., Chicago—Dec. 1, by M. J. O'Brien, clk. Sanitary District of Chicago, 910 South Michigan Ave., North Branch Sewage Pumping Station, Div. "B"; adv. E. N.-R. Nov. 10.

Neb., Lincoln—See "Streets and Roads."

Mo., Farmington — Nov. 19, by N. E. Bugg, Steward Hospital, sewage disposal plant, auxiliary piping, etc. on grounds State Hospital 4. Black & Veach, 701 Mutual Blug., Kansas City, engrs.

Ont., Toronto—Nov. 22, by T. Foster, chn. Bd. Control, City Hall, North Toronto Trunk Sewer, Sect. A-B.

Contracts Awarded

R. I., Providence—Bd. Contr. & Supply, sewerage works in Messina St., etc., to J.

See proposal advertising on page 167

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Only 51 days between the decision to build an emergency water works plant - - *and the finished job!*

- - the speed with which Leadite jointing can be accomplished contributed to this remarkable feat.

THE line illustrated here is 26,000 ft. of 12" pipe with LEADITE joints.

Owing to the emergency which arose in the city for which the installation was made no trenching could be attempted.

The line lies throughout its entire length on the surface of the ground without any bracing except at the bends.

After completion the line was tested to 260 lbs. pump pressure.

Specify and use
LEADITE
—it saves at least 75%

Part of the 26,000 ft. installation, crossing an open field. Chas. E. Waddell & Co., Engineers.

It is now under constant pump working pressure of 230 lbs. For over 30 years now, LEADITE has demonstrated by test and experience that it is absolutely permanent and secure.

Leadite is self-caulking and is so simple to use that the method of using it can be taught to even the most inexperienced help in a very short time.

Added to its speed and ease of use—Leadite saves at least 75% on account of saving in material and labor.

Be sure it is
LEADITE
and accept no imitations~~~

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Sewers (Continued)

H. Ferguson Co., Pawtucket, $21,365; in Broad St., Rutherglen, Virginia and Georgia Aves., to J. Ambrose, 1100 Pontiac Ave.; Lawn St., to I. Capaldi, 47 Marietta St.; Adelaide Ave., Holmes and Chatham Sts., to A. G. D'Uva, 455 Union St.; and Blackstone Blvd. and 3rd St., to W. A. Gammono, Inc., 728 Valley St.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, to Picvac Constr. Co., 156 East 4th St., sewer in East 48th St. $18,188, and Colonial Rd. $4,458; to Manmill Constr. Co., 1780 Pitkin Ave., 70th St. $9,138, to J. L. Cuozzo, 26 Tuckahoe Rd., Yonkers, West 8th St., $7,123; to S. Guerriero, 1024 66th St., East 92nd St., $7,070; to W. D. Ficken, 411 85th St., Rockaway Ave. $7,176, and Rockaway Ave. $5,729; to Del Mel Constr. Co., 7624 15th Ave., Lenox Rd. $4,315, Winthrop St. $4,441, and Troy Ave. $3,464; to M. Tozzi, 1362 63rd St., West 8th St., $4,095; to P. J. Donlin Contg. Co., 82 South 3rd St., Myrtle Ave. $3,628; to A. W. Matarazzo, 1163 61st St., East 53rd St. $4,280, Jerome St. $2,585, East 12th St. $3,005, and Kenmore Pl. $2,228; to S. Ambrosio, 1016 60th St., Ocean Parkway, $3,287; to R. Iovino, 678 Glenmore Ave., 77th St., $1,474; and to C. Ambrozio, 10404 97th Ave., Richmond Hill, Livonia Ave., $890. Grand total $96,574. Noted Oct. 20.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewer in Lurting and Crosby Aves., to Anita Constr. Co., 2975 Marion Ave., $6,415 and $4,103 respectively, and in Patterson and Walton Aves., to Fiorello & Koch, 1895 Belmont Ave., $5,615 and $2,670 respectively; also grading Morris Park and Mayflower Aves., to T. DiRoma, 33 Evelyn Pl., $12,306 and $11,593 respectively. Grand total $42,692. Noted Oct. 27.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, to Garson & Garson, 1243 North 58th St., branch sewer in Caster Ave. $11,411, to E. B. and F. Pontarelli, 602 West Butler St., Cayuga St. $2,633, Charles St. $4,764, Comley St. $4,519, and Montague St. $4,203, to A. Carrado, 6920 Magnolia St., Godfrey Ave. $8,271, to F. T. Buckins, Jr., 4050 Kensington Ave., Ruan St. $4,700, and to D. Delise, 4842 North Leithgow St., Levick St. $5,216; to M. J. Driscoll, 100 Apsley St., main sewer in Tabor Ave. between Sanger and Cheltenham Sts. $9,782, and Tabor Ave. between Comley and Benner Aves. $64,040, also to Mundy Paving & Constr. Co., 226 South Warnock St., Packer Ave. $7,640. Grand total $127,179. Noted Oct. 20.

O., Akron—W. F. Peters, dir. Pub. Serv., 1,425 ft. 33- to 36-in. vitr. brick sewer in Gottwalt and South Main Sts., to T. E. McShaffrey Constr. Co., 173 South Forge St., $47,988 engrs. est. $46,900; also 2,370 ft. 30- to 48-in. segmental block sewer in Aqueduct St. Outlet, to F. George, 1657 Mahoning Ave., Youngstown, $37,402 engrs. est. $39,000. Noted Sept. 29.

Ill., Chicago — Bd. Local Impvts., Room 207, City Hall, tile sewers with brick manholes and catchbasins in South Knox Ave., West 98th and 99th Places, to G. Barry, 5924 South Wabash Ave.; West 99th Pl., Avenue O, Fullerton, and Jarvis Aves., to A. Scully, 4504 Wrightwood Ave.; Avenue N, South Kenneth, North Kilbourne, and South Kilpatrick Aves., to C. Roberts, 6921 Laflin Ave.; Leavenworth Ave., to G. G. Anderson; South Kolmar Ave., to D. Cuzzone, 922 South Marshfield Ave.; Northwood St., to F. A. Coda, 2710 South Wells St.; 83rd St., South Oakley and Northwestern Aves., to A. Santucci, 916 South Ashland St.; West 56th St., South Irving, South Oakley, North Springfield, South Trumbull and South Homan Aves., to N. Ranieri; South State and South Wood Sts., to M. Murphy, 5854 South Michigan Ave. Noted Oct. 18.

Ill., Niles Center—Sewer stubs in Howard and Oakton Sts., to O'Brien Bros., 152 North Central Ave., Chicago, $56,539.

Ill., Taylorville — For 8- to 21-in. vitr. clay and 24- to 72-in. concrete sewers in various streets, to Gjellefeld Constr. Co., Forest City, Ia., $202,203. Noted Sept. 29.

Calif., Los Angeles — Los Angeles Co. Sanitation Dist. 5, sewer between Western Ave. and junction with joint outfall sewer, to Frederickson & Watson, 354 Hobart St., Oakland, $237,682.

Waste Disposal

Proposed Work

N. J., Fair Lawn — Fair Lawn Impvt. Corp., N. A. Kueken, pres., plans incinerator. $30,000. Engineer not selected.

Bridges

Proposed Work

La., Melville—Texas & Pacific R.R. Co., E. F. Mitchell, Dallas, Tex., ch. engr., made plans 6 span 1,900 ft. steel bridge over Atchafalaya River, here.

Tenn., Nashville—Davidson Co. and State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, take bids probably in December, concrete bridge over Mill Creek, in Nashville-Lebanon Rd., near here. To exceed $25,000.

O., Cleveland—Cleveland Union Terminal Co., Ulmer Bldg., soon lets contract plate girder rein.-con. girder bridge over Cuyahoga Valley. H. D. Jouett, Ulmer Bldg., engr.

Kan., Winfield — Cowley Co. soon takes bids West Rock Bridge, two 100 ft. truss and four 30 ft. deck girder spans; Red Bud Bridge, two 20 ft. slab and one 50 ft. truss spans; Baden Mill Bridge, one 60 ft. and two 100 ft. truss spans; and two 100 ft. truss span bridge, 14th St., all 20 ft. wide. B. Boyle, Court House, engr. Noted Sept. 29.

Tex., Jasper—Voted $30,000 bonds, constructing bridge. C. P. Hunter, Jasper, engr.

Okla., Lacy (mail Hennessey)—Comrs. Kingfisher Co., Kingfisher, making preliminary plans 900 ft. pile trestle bridge over Cimmaron River, here. $45,000. C. R. Steele, Kingfisher, engr.

Bids Desired

Rhode Island—Nov. 16, at office W. M. R. Compton Co., 44 Wall St., New York City, 1,200 ft. suspension bridge over Mt. Hope Bay between Bristol and Portsmouth, for Mt. Hope Bridge Co. $3,500,000. Separate bids on substructure and superstructure also on combined bid. Robinson & Steinman, 26 Church St., New York City, engrs. Noted Aug. 11.

New York—See "Streets and Roads."

N. Y., Croton Lake—Nov. 18, by A. Goldman, comr. Dept. Plant & Structures, Municipal Bldg., New York City, reinforcing and reconstructing Pines Bridge over Croton Lake, here.

N. Y., Long Island City — Nov. 15, by Park Bd., W. R. Herrick, pres. Park Dept., Arsenal Bldg., Central Park, New York City, constructing bridge, roadways and paths, in Kissena Park, Queens Boro.

Ohio—Nov. 18, by G. F. Schlesniger, dir. Highways & Pub. Wks., Columbus, concrete girder bridge on Sect. "B-2" Cambridge-Steubenville Rd., Guernsey Co., $10,437; also grading, etc., 0.449 mi. roadway, and constructing 126 ft. span steel bridge on Sects. "K" and "L" Woodsfield-Marietta Rd., Monroe Co. $45,662.

Mich., Monroe—Nov. 14, at office City Comn., Bridge 3 of 58-7-3, Contr. 1, one 211 ft. span rein.-con. rib cantilever type. C. L. Cowgill, Plymouth, resident engr.

Ill., Chicago—Nov. 17, by M. J. O'Brien, clk. Sanitary District of Chicago, 910 South Michigan Ave., sub-piers and sub-surface girders for South Crawford Ave. bridge approach; adv. E. N.-R. Nov. 10.

Kan., Hays—Nov. 23, by S. S. Chittenden, clk. Ellis Co., Meistrel Bridge, five 33 ft. I-beam spans, between Sects. 9 and 16, Township 11, Range 18; also 5 bridges and 15.713 mi. culverts on Project 59. C. J. Loreditsch, Court House, engr.

South Dakota — Nov. 23, by State Hy. Comn., Pierre, 45 ft. concrete and steel viaduct on State Aid Project 103, Hand Co. O. H. Hetle, highway engr.

South Dakota—See "Streets and Roads."

Texas—A. C. McFarlane, Orange, taking bids on revised plans 1,000 ft. steel truss toll bridge, 20 ft., between Galveston Island and Port Bolivar. $250,000. J. W. Billingsley, Interstate Bldg., New Orleans, La., engr.

Contracts Awarded

N. Y., Peekskill—Westchester Co. Park Comn., 72 West Pondfield Rd., Brnoxville, constructing Peekskill Creek Trestle, in Bronx River Parkway Extension, here, to Linde Griffith Co., 4th Ave., Newark, N. J., $71,943. Noted Sept. 29.

N. J., Ocean City—Ocean City-Longport Automobile Bridge Co., Ocean City Title & Trust Bldg., substructures, foundations, concrete piles, etc. for main span, also trestle approaches bridge over Great Egg Inlet, to Frederick Snare Corp., 114 Liberty St., New York City. Engrs. est. $1,000,000. Noted Oct. 13.

Tex., Galveston — See "Streets and Roads."

Tex., Houston—Harris Co., 3 span concrete and steel bridge over San Jacinto River, on Market St., to L. E. Myers Co., Dallas, $205,027. Engrs. est. $250,000.

Oregon—State Hy. Comn., Salem, 10 span concrete bridge over Parrot Creek on Pacific Highway, Clackamas Co., to C. W. Rigdon, Woodburn, $29,775.

Dams

Proposed Work

Tenn., Cookeville—See "Buildings—Industrial."

Contracts Awarded

N. Y., Rye—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, stone faced rein.-con. dam and sluiceway in Manursing Island Park, here, to L. E. McLaughlin, Inc., 217 Jefferson Ave., New London, Conn., $52,683. Noted Sept. 29.

Texas—See "Buildings—Industrial."

Railways

Proposed Work

Missouri—Missouri Pacific R.R. Co., E. A. Hadley, ch. engr., Ry. Exch. Bldg., St. Louis, making preliminary plans approximately 3.3 mi. line from Illmo to connect with section of old Cape Girardeau Northern Ry.; and reconstructing approximately 7 mi. old Cape Girardeau Northern Ry.

California—Southern Pacific Co., G. W. Boschke, ch. engr., 65 Market St., San Francisco, plans (1st unit) new yard and yard tracks, etc. at Santa Clara, $300,000; approximately 26,000 ft. additional track at Watsonville Junction, $140,000; approximately 13,000 ft. new track at Stockton, $78,000; approximately 8,200 ft. new main track, etc. north of El Pinal, $115,000; also additional tracks at Walnut Grove, $66,000. Total cost approximately $1,000,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Mo., Kennett — Dunklin Co. takes bids probably in December, 15.25 mi. levee along St. Francis River, approximately 1,889,000 cu.yd. excav., etc. A. C. Spilker, Bloomfield, engr. Noted Nov. 3.

Tex., Bonham—Fannin Co., Levee Impvt. Dist. 1, c/o Secretary, made plans 8 mi. ditches and small levees to reclaim 10,000 acres land on Bois D'Arc Creek. $165,000. B. F. Williams, Austin, state reclamation engr.

Bids Desired

N. Y., Howard Beach (br. Jamaica) — Nov. 14, by M. Cosgrove, Comn. Docks, Pier "A," Battery Pl., New York City, dredging channel at Howard Beach, Jamaica Bay, here, Contr. 1899. Former bids rejected. Noted Sept. 22.

N. Y., Long Island City—Nov. 17, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., repairing and reconstructing sea wall, on Willets Point Rd. from point 675 ft. to 2,075 ft. southwest of Bell Ave.

Fla., Stuart—Dec. 15, by Bd. Comrs. Martin-St. Lucie Counties Impvt. Dist., dredging and rock removal at St. Lucie inlet. G. A. Youngberg, 21 Laura St., Jacksonville, ch. engr., adv. E. N.-R. Nov. 10.

Tex., Edinburg—Mestenas Water Co., c/o J. C. Engleman, Jr., et al, taking bids series ditches and reservoirs to carry off and make use "seepage" water from 10,000 acres irrigated land in Lower Rio Grande Valley, Hidalgo Co., near here. $75,000. Private plans.

Contracts Awarded

New York—M. Cosgrove, comr. Docks, Pier "A," foot Battery Pl., New York City, dredging 25,000 cu.yd. at 52nd St., Brooklyn, to H. Dubois Sons, 17 State St., New York City, at $0.295 per cu.yd.; 12,000 cu. yd. at Gansevoort and Market Piers, North

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Excavation, Drainage, Irrigation, Levees, River and Harbor (Continued)

River, New York City, to Morris & Cummings, 15 Moore St., New York City, $0.43; 48,880 cu.yd. at Washington St. Pier, East River, Brooklyn, and 12,600 cu.yd. at 156-158 North River, New York City, to Columbia Dredging Corp., 50 Church St., New York City, $0.2925. Noted Oct. 13.

Ill., Carrollton — Hartwell Drainage & Levee Dist., 204,717 cu.yd. open ditches, etc., to C. E. Walker, Cedar Rapids, Ia., $21,495.

Minn., Minneapolis — Gross Bros., 86 South 10th St., excavation contract for 2 story and basement, 115 x 157 ft., rein.-con. and Kasota stone store and office building, Marquette Ave. and 9th St., to Connolly Contg. Co., 2325 University Ave., St. Paul. Archts. total est. $200,000.

Texas—See "Buildings—Industrial."

Calif., Merced — H. P. Sargent, secy. Merced Irrigation Dist., 625,136 sq.ft. concrete canal lining, to Carlson Bros., Turlock at $0.065 per sq.ft.; also 1,216 ft. galvanized metal flume, to California Corrugated Culvelt Co., West Berkeley, $13,412.

B. C., Powell River—Dept. Pub. Wks., Ottawa, Ont., 1,000 ft. new breakwater, here, approximately 50,000 cu.yd. large dimension rock, to Stuart Cameron & Co. Ltd., 543 Granville St., Vancouver, $115,927. Noted Sept. 1.

Streets and Roads

Proposed Work

Ill., East St. Louis — See "Contracts Awarded."

Bids Desired

Massachusetts—Nov. 15, by Dept. Pub. Wks., Boston, bituminous macadam paving 17,000 ft. highway in Deerfield, and 11,050 ft. highway in Dover, both 18 ft. W. F. Williams, comr.

New York—Nov. 29, by A. W. Brandt, comr. State Dept. Pub. Wks., Div. Highways, Albany, constructing 22.12 mi. highways in Dutchess, Hamilton, Seneca and Westchester Counties; 1 bridge on Greene Co.; and reconstructing 6.89 mi. highways in Herkimer and Suffolk Counties; adv. E. N.-R. Nov. 10.

N. Y., Buffalo — Nov. 14, at office Dept. Pub. Wks., Municipal Bldg., having Belmont and Suffolk Sts.; also repaving Burt Alley, Clark, Glor, William and Cayuga Sts. J. J. Love, comr.

N. Y., Long Island City — Nov. 14, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and granite block paving 43rd (Grout) Ave.; grading, sidewalks, etc. 56th (3rd) 143rd (Foley Ave.), 139th (Campion Ave.), 156th Sts., etc.; grading, restoring curbing, etc. on Jamaica Bay Blvd.

N. Y., St. George — Nov. 16, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and bituminous concrete repaving Taylor St.; grading and granite block paving Grove St.; and concrete sidewalks, brick guttering, etc. both sides Lawrence Ave.

New Jersey—Nov. 21, by State Hy. Dept., Trenton, grading and 8 in. double line rein.-con. paving 55,163 sq.yd. East Creek-South Dennis Rd., Route 15, Sect. 11, Cape May Co.; and 47,090 sq.yd. Pittsgrove-Elmer Rd., Route 18-S, Salem Co. A. L. Grover, ch. engr.; adv. E. N.-R. Nov. 10.

Delaware—Nov. 30, by State Hy. Dept., Dover, grading and concrete paving, etc. 5,000 cu.yd. Corbit-Bear, Contr. 97; grading and surfacing 1 mi. Contr. 98; state highway police station, Contr. 99; also bridge, etc. State wharf at Little Creek Contr. 88., adv. E. N.-R. Nov. 10.

Md., Baltimore—Nov. 16, by Bd. Awards, sheet asphalt paving 12,760 sq.yd. streets listed in Contr. 440. N. L. Smith, City Hall, highways engr.

Ala., Birmingham—Nov. 22, by Bd. Revenue, Jefferson Co., Courthouse, concrete paving 23,000 sq.yd. 35th St. N.; Warrenite bithulithic paving 54,000 sq.yd. Hueytown Loop Rd. and 66,000 sq.yd. Mt. Pinson Rd.; penetration paving 10,000 sq.yd. Green Springs Rd., 7,000 sq.yd. Smyer Rd., 5,500 sq.yd. Huffman-Saddler Gap Rd., 5,500 sq.yd. Huffman-Ketona Ra., and 7,500 sq.yd. Powderly-Wenonah Rd.; also Finley method penetration paving 159,000 sq.yd. Bankhead Highway. C. J. Rogers, co. highway engr.

Miss., Kosciusko—Nov. 18, by Chancery Clerk Attala Co., graveling 9.995 mi. Durant-Starkville Rd., Project 54-a.

Louisiana—Nov. 29, by State Hy. Comn., Baton Rouge, graveling 9.498 mi. Sect. F and 1.85 mi. Sect. G Natchitoches-Boyce Highway, State Project 429, Natchitoches Parish. N. W. Bowden, highway engr.

Kentucky—Nov. 22, by State Hy. Dept., Frankfort, grading, etc. 5.4 mi. Glasgow-Burkesville Rd., Federal Aid Project 116-C Barren Co. E. N. Todd, highway engr.

Ohio—Nov. 18, by G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, grading and paving, etc. 5.321 mi. Sect. "S" Delphos-Upper Sandusky Rd., Allen Co., concrete $152,662 bituminous macadam $138,664; grading and paving, etc. 2.872 mi. Sect. "B-2" Cambridge-Steubenville Rd., Guernsey Co., $31,784; also rein-con. girder bridge over Salt Fork on Sect. "B-2" Cambridge-Steubenville Rd., Guernsey Co., $10,437. Previous bids cancelled. Noted Oct. 20.

Ohio—Nov. 18, by G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus paving with **(a)** concrete **(b)** bituminous macadam **(c)** waterbound macadam **(d)** 2½ in. brick, except brick **(e)** 3 in. brick, except brick, 5.321 mi. Sect. "S" Delphos-Upper Sandusky Rd., Allen Co. **(a)** $152,662 **(b)** $138,664, 2.114 mi. Sect. "T-I" Cincinnati-Zanesville Rd., Fayette Co. **(b)** $42,618, 2.993 mi. Sect. "K" Chagrin Falls-Greenville Rd., Geauga Co. **(c)** $74,040, 6.748 mi. Sects "A" and "B" Troy-Ludlow Falls Rd., Miami Co. **(a)** $228,118 **(b)** $228,242, 2 mi. Sects. "C-2" and "A" Portsmouth Oak Hill Rd., Scioto Co. **(a)** $74,105 **(d)** $69,618 **(e)** $70,575; also grading, etc. 4.041 mi. various roads in Morgan, Guernsey and Washington Counties, $90,291.

O., Cincinnati — Nov. 18, by Comrs. Hamilton Co., asphaltic macadam repaving, etc. 18,800 sq.yd. Martin Rd. $55,968. E. A. Gast, Court House, engr.

Ind., Laporte—Nov. 12, by Comrs. Laporte Co., grading and paving, etc. John Lofgren et al Rd. $30,738, Fred Groehler et al Rd. $22,387, John R. Henry et al Rd. $22,354, and Henry Pahs et al Rd. $33,407. F. A. Hausheer, Laporte, aud.

Michigan—Nov. 17 (extended date), by H. C. Fleming, resident engr., 7 Monument Sq., Grand Rapids, grading 3.337 mi. F-054-7, Contr. 2, Mecosta Co., for State Hy. Dept., Lansing. Noted Oct. 27.

Michigan — Nov. 17, at office Village Clerk, Vassar, concrete paving 0.573 mi. MO79-20, Contr. 1; Tuscola Co., 20 to 36 ft. for State Hy. Dept., Lansing. E. R. Benkert, Port Huron, resident engr.

Kan., Hays—Nov. 23, Ellis Co. grading and bridging 15.713 mi. Project 59, 28 ft. C. J. Ionditsch, co. engr. Noted Nov. 3.

Kan., Kansas City—Nov. 14, by Wyndotte Co., concrete paving 0.551 mi. Route K-32, Federal Aid Project 321-C. Noted Oct. 13.

Kan., Lyndon—Nov. 19, by Osage Co., sand clay surfacing 8.608 mi. Project 164 A-D, and 8.895 mi. Project 165 A-C.

Kan., Ottawa—Nov. 23, by J. R. Finley, clk. Franklin Co., grading, etc. 6.795 mi. Project 143, Sect. A and B, 28 ft. E. F. Loveless, Court House, engr.

Kan., Sedan—Dec. 1 by Clerk Chautauqua Co., grading 4.495 mi. and concrete paving 0.505 mi. Federal Aid Project 384-A, 28 and 18 ft. Kansas Eng. Co., 601 Kansas St., Topeka, engrs. Noted Nov. 3.

Nebraska—Nov. 18, by R. L. Cochran, highway engr., State House, Lincoln, grading and sand graveling 5 mi. Lewellen-Belmar Rd., Project 249-D, Keith Co. $30,000; 3.7 mi. Lewellen-Belmar Rd., Project 249-C, Garden Co. $25,000, for State Hy. Dept.

South Dakota—Nov. 23, by State Hy. Comn., Pierre (**S.P. means State Project and F.A.P., Federal Aid Project**), grading, etc. 2.66 mi. F.A.P. 223 Roberts Co., 13.89 mi. F.A.P. 181-E Potter Co., 16.03 mi. F.A.P. 218-A Jackson Co., 16.08 mi. F.A.P. 219-B Walworth Co., 14.09 mi. F.A.P. 216-A Brown Co., 14.92 mi. S.P. 149 Douglas Co., 18.96 mi. S.P. 143 Sully Co., 18 mi. F.A.P. 229 Charles Mix Co., and 14 mi. F.A.P. 199-B Codington Co.; graveling, etc., 22,700 cu.yd. F.A.P. 215-A, 18,700 cu.yd. F.A.P. 215-B, and 21,000 cu.yd. F.A.P. 215-C Stanley Co., 6.65 mi. F.A.P. 215-D Haakon Co., 23,000 cu.yd. F.A.P. 196-B Aurora Co., 16,400 cu.yd. F.A.P. 95-D Faulk Co., 13,200 cu.yd. F.A.P. 181-A.B. and D Dewey and Potter Counties, 13,500 cu.yd. F.A.P. 191-B and 19,900 cu.yd. F.A.P. 191-F Clark Co., 15,700 cu.yd. F.A.P. 189-A Charles Mix Co., 27,300 cu.yd. F.A.P. 189-C Brule Co., and 18,690 cu.yd. S.P. 133, Minnehaha and Moody Counties; rein.-con. paving, etc. 43,397 sq.yd. F.A.P. 153, Union Co.; also constructing concrete and steel bridges on S.P. 153 Jones Co., S.P. 149 Douglas Co., S.P. 143 Sully Co., and F.A.P. 219-B Walworth Co. O. N. Hetle, highway engr.

Arkansas—Nov. 15, by State Hy. Dept., Little Rock, grading, etc. 6 mi. State Highway 105, Sect. 1. C. S. Christian, State Hy. Dept., engr.

California—Nov. 21, by State Hy. Comn., Sacramento, grading and gravel or stone surfacing, etc. 3.5 mi. roadway between southerly boundary and Richardson Creek, Del Norte Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Calif., Los Angeles—Nov. 21, by Supervs. Los Angeles Co., concrete, oil and rock on disintegrated rock or cementaceous gravel paving, etc., 2.5 mi. portion South St. G. W. Jones, Hall of Records, engr.

Calif., San Diego—Nov. 21, by Common Council, grading, curbing and 6 in. asphaltic concrete paving, etc., 101,262 sq.ft. Works Ave., etc. H. W. Jorgensen, city engr. Noted Oct. 12.

Contracts Awarded

New York—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading and rein.-con. paving Hutchinson River Parkway, Mamaroneck Ave., in White Plains and Harrison, to J. H.Gordon, 191 North Lake Ave., Albany, $183,077. Noted Sept. 22.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, to B. Turecamo, 8706 Bay 12th St., grading and sheet asphalt paving East 9th St. $14,663, West 11th St. $17,344, 12th Ave. $3,789, 72nd St. $9,845, 72nd St. $7,955, 77th St. $8,920, 77th St. $18,540, and 85th St. $12,785, to Uvalde Asphalt Paving Co., 1 Bway., New York City, East 37th St. $7,823, Elton St. $8,844, Troy Ave. $10,944, Avenue D $3,581, Maple St. $8,727, and Sterling St. $14,410, to D. J. McCoy Asphalt Co., Avenue U and East 57th St., 15th Ave., $5,933, and 23rd Ave. $3,753; and to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., 15th St. $31,367; to W. McHale, 1250 Jefferson Ave., bituminous macadam paving West 3rd St., $9,605; to R. Lynster, 454 East 49th St., grading East 46th St. $2,365, to V. Aqino, East 95th St. $600, also to F. DeVito, 158 17th St., West 12th St. $4,379, and 90th St. $1,500. Grand total $208,672. Noted Oct. 20.

N. Y., Irondequoit (mail Rochester)—Town Rd., Ridge and Culver Rds., H. C. Rayton, clk., grading, sidewalks and bituminous penetration paving Seymour Rd., to T. W. Heberle, 2502 Culvert Rd., $16,055. Noted Sept. 22.

N. J., Newark—T. L. Raymond, dir. Dept. Pub. Affairs, City Hall, grading, ing, curbing and asphalt paving Commerce St. and asphalt resurfacing Seymour Ave., to Standard Bitulithic Co., foot Brill St., $13,643 and $18,126 respectively. Noted Oct. 13.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, asphalt repaving 33rd St., to Union Paving Co., 123 South 21st St., $50,647; redressed granite block repaving east approach to Grays Ferry Bridge, and improving Meadow Brook (country) Rd., to United Paving Co., Widener Bldg., $12,134 and $9,866 respectively, Bleigh, Evergreen and Lare Rds., to M. Y. Neely, Bustleton St. $3,246 and $6,131 respectively, and Churchview Rd., to J. Salvucci, 512 North 65th St., $17,387. Grand total $99,411.

O., Cleveland — Cuyahoga Co., curbing, guttering and concrete paving, etc. 27,300 sq.yd. Cleveland Kent Rd., to Homberger & Wager, Columbus Ave., Sandusky, $165,250.

O., Medina—Medina Co., slag and limestone paving, etc., River Styx, Hinkley Granger Rds., etc., to L. Dehmer, Tiffin, $25,000. Engrs. est. $25,000.

Ind., Peru—City Clerk, two course rein-con. paving West 5th St., to C. J. Burke, Peru, $39,862.

Mich., Detroit—One course 6 in. concrete paving approximately 20,135 sq.yd. Alleys 3423 to 3436 (inclusive) with 2 x 6 in. retaining plank side, to Lennane & Mcilvenna, 7777 West Chicago Blvd., to Otis Cement Constr. Co., Hammond Bldg., and to Bishop & Weir, East Jefferson Ave. Engrs. est. $65,000.

Ill., East St. Louis—For 8 in. concrete paving, etc., 3,060 sq.yd. 58th St., to L. Rich Constr. Co., 2038 St. Clair Ave. $14,025, and 1,020 sq.yd. Belleview St., to Moore Bros. Constr. Co., 2000 St. Clair Ave. $4,893; also soon takes bids asphalt paving 11,290 sq.yd. and concrete paving 3,200 sq.yd. 5th St. $64,200, and widening portion 5th St. $30,000.

Ia., Northwood—Worth Co., grading and paving 8.13 mi. U. S. Highway 65, to Metz Constr. Co., Springfield, Neb. $193,840.

Ia., Osceola—Clarke Co., 6 in. concrete paving, etc. 12.15 mi. U. S. Highway 65, to Union Constr. Co., 200 New York St., Des Moines, $320,457.

Mo., Kansas City — Concrete paving Brookside to 51st Sts., to Brosnahan Bros., 3233 Karns Blvd., $35,893.

Arkansas—State Hy. Comn., Little Rock, constructing 14 mi. Fair Oak-Wynne Rd.,

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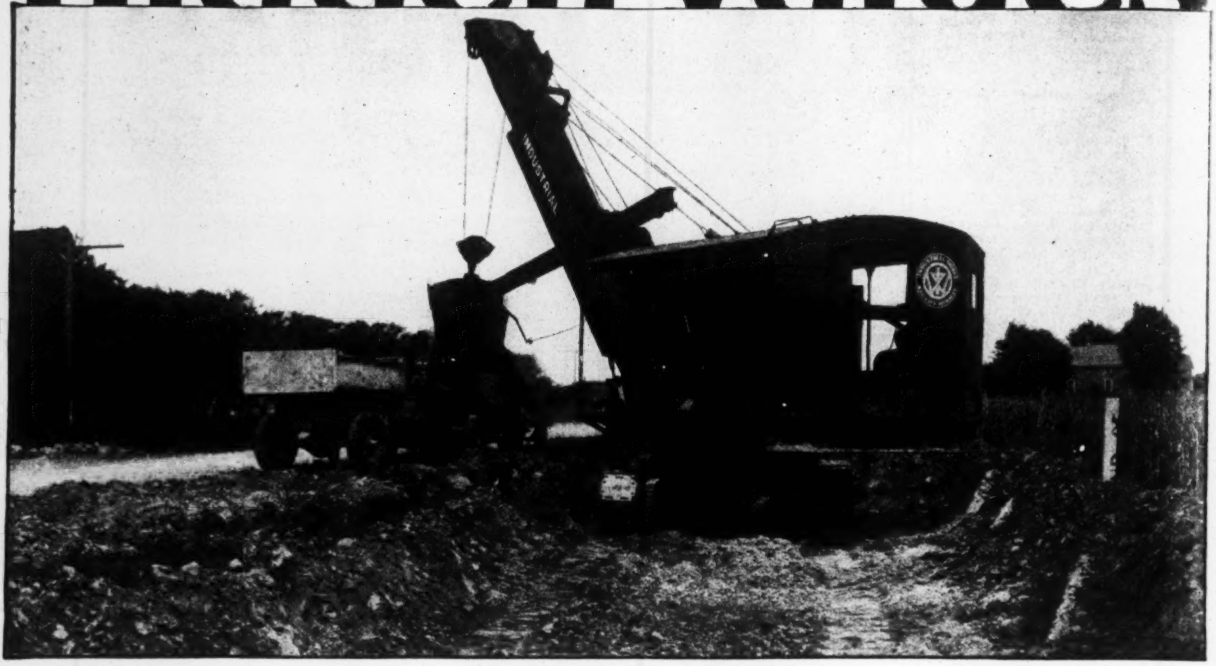
Hidden Values



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Streets and Roads (Continued)

Cross Co., to E. E. Davis, 2,300 North Bway., Oklahoma City, Okla. $76,877, 8 mi. Wheatley Rd. St. Francis Co., to Mississippi-Arkansas Constr. Co. $72,053, 8.4 mi. Pine Bluff South Rd., Jefferson Co., to J. Seltz, McGehee $42,604, 8 mi. Benton-Grant Co. line Rd., Saline Co., to Bradley & Tolbert, Sheridan $54,083, 12.5 mi. Warren-Banks Rd., Bradley Co., to Brown & Ross, Arkadelphia $101,615, 2 mi. Pansy-East Rd., Cleveland Co., to R. J. Lynch, Little Rock $18,523, 6 mi. Warren-Hermitage Rd., Bradley Co., to J. A. Perdue & Co., Pine Bluff $9,302, 8 mi. Dardanelle South Rd., and 6.5 mi. Dardenelle South Rd., Yell Co., to J. N. George & Co., Centerville, $34,806 and $58,637 respectively, 11 mi. Harrison-Omaha Rd. Boone Co., to M. E. Gillioz, Monette, Mo. $72,925, 11.5 mi. Corning-Pocahontas Rd., Clay Co., to A. A. Davis & Co. $37,702, and 6 mi. Malvern-Grant Co. line Rd. also grading, etc. 10.7 mi. Malvern-Donaldson Rd., Hot Springs Co., to Stanley, Fowler & Kennedy, Malvern $29,144 and $53,268 respectively, 11 mi. Nashville-Lockesburg Rd., Howard Co., to Reynolds & Sutton, Tyler, Tex. $79,030, 8 mi. Kirby-Murfreesboro Rd., Pike Co., to W. P. McGeorge & Co., Pine Bluff $125,744, 8 mi. Mountainburg-Fine Springs Rd., Highway 71, Sect. 15, Crawford Co., to Hinson Bros., 1004 South Cherokee St., Muskogee, Okla. $93,089; and gravel surfacing 8 mi. Arkadelphia-Amity Rd., Highway 8, Sect. 5, Clark Co., to C. H. Atkinson, Chillicothe, Mo. $26,148. Grand total $985,550.

Tex., Galveston—Galveston Co., grading and bridging 25 mi. Bolivar and High Island Rd., to H. Mecham-R. C. Bouse & E. W. Boyt, Galveston, $39,241.

Tex., Houston—Harris Co., grading, etc. 9.28 mi. Market St. Rd. from San Jacinto River to Goose Creek, to C. K. Horton, 2200 Clay St., $127,433. Engrs. est. $140,000. Noted Sept. 29.

Okla., El Reno—Canadian Co., grading, etc. 7.3 mi. County Road 8-A, 18 ft., to R. Larson, El Reno, $22,254, engrs. est. $25,000; 5.06 mi. County Road 5-A, also 6.1 mi. Mustave-Yukon Rd., 30 ft., to Green & Boots Co., 519 West Main St., $24,917 and $26,715 respectively, engrs. ests. $28,000 and $30,000 respectively. Grand total $73,886. Noted Oct. 20.

Nevada—State Hy. Comn., Carson City, grading and crushed graveling, etc. 24,800 cu.yd. Federal Aid Project 80-B, Lyon and Mineral Counties, to Nevada Rock & Sand Co., Reno, $88,364. Noted Oct. 20.

Washington—State Hy. Comn., Olympia, grading, etc., 86,000 cu.yd. State Rd. 5, Yakima Co., to Wilburn & Stone, Inc., 1100 Fairview Ave., Seattle $81,153, and 123,000 cu.yd. State Rd. 2, Douglas Co., to Triangle Constr. Co., 1220 Ide Ave., Spokane $69,803; also crushed graveling, etc. 7,300 cu.yd. State Rd. 14, Mason Co., to Edland & Burger, 302 South 30th St., Tacoma $8,748, and 8,300 cu.yd. State Rd. 9, Clallam Co., to Edland, White & Edland, 302 South 30th St., Tacoma $10,585. Grand total $170,288. Noted Oct. 6.

Oregon—State Hy. Comn., Salem, to Joslin & McAllister, Spokane, Wash., broken stone resurfacing, etc. Old Oregon Trail, Umatilla Co. $29,146, west unit Old Oregon Trail, Umatilla, Morrow and Gillam Counties $32,685, 14.52 mi. Baker Highway, Baker Co. $66,810, and middle unit Old Oregon Trail, Morrow Co. $25,207; also to Simson & Hefty, Portland, Klamath Falls Highway, Klamath Co., $54,115; and to Moon Bros., Portland, 3.49 mi. Good Creek Sect. Williamette Highway, Lane Co., $108,890. Grand total $316,853.

Buildings—Commercial

Proposed Work

Me., Portland—APARTMENT HOTEL—Owner, c/o O. G. Emerson, archt., 141 Sawyer St., having sketches made 5 story and basement, 150 x 170 ft., brick apartment hotel. $400,000.

N. H., Keene—HOTEL—M. E. Georges, c/o Haynes & Mason, archts., 280 Main St., Fitchburg, Mass., having plans prepared brick and steel addition to Hotel Ellis. $150,000 or more.

Conn., Bristol — CLUB — Bristol Boys Club, Old Town Hall, Main St., F. G. Hughes, chn., having plans prepared by C. S. Palmer, 114 Whitney Ave., New Haven, brick and steel, Laurel St. $150,000. Noted Sept. 22.

Conn., Hartford—APARTMENT—E. M. Bucknam, 50 Pennsylvania Dr., West Hartford, having plans prepared by G H. Mathews, 48 Campfield Ave., 3 story, 57 x 148 ft., brick and steel, Collins St. $150,000.

N. Y., New York—APARTMENT—J. M. Felson, archt., 250 West 57th St., takes bids about Jan. 1, 15 story and basement on 100 x 140 ft. site, 40 West 77th St., for Forty West 77th Street Corp. $1,400,000.

N. Y., Brooklyn—THEATRE—Stadium of Canarsie, Inc., 26 Court St., having plans prepared by A. Weiser, 510 Madison Ave., New York City, theatre and ball room, Rockaway Parkway north of Glenwood Rd. $400,000.

N. Y., New York — BANK — Bankers Trust Co., 16 Wall St., having plans prepared by C. E. Birge, 29 West 34th St., bank. $2,000,000.

N. Y., New York—OFFICE—A. E. Lefcourt, 1351 Bway., having preliminary plans prepared 42 story, 104 x 184 ft., office building, 5th Ave. and 43rd St. $11,000,000. Engineer and architect not selected.

N. Y., New York—OFFICE and LOFT—L. I. Brooks, archt., 65 Madison Ave., takes bids about Jan. 30, 30 story, brick and steel, 6th Ave., 25th and 26th Sts., for Owner's Evolution Co., c/o J. A. Fischer, 690 6th Ave. $6,000,000.

N. Y., Peekskill—THEATRE—Pekman Theatre Corp., c/o Gottesman Enterprises, 1540 Bway., New York City, takes bids about Nov. 20, 2 story, theatre, Park St., here. $500,000. A. W. Johnson, 285 Madison Ave., archt., New York City. Noted Oct. 6.

N. J., Bergenfield — CLUB HOUSE — Knights of Columbus, St. Johns Council, Washington Ave., having sketches made by F. J. Ricker, 685 Hudson Ave., West New York, 3 story and basement, brick and steel, plain foundation. $150,000.

N. J., East Orange—BANK and OFFICE—East Orange Trust Co., 338 Main St., having sketches made by Holmes & Winslow, 153 East 38th St., New York City, brick and steel, North Arlington Ave. and Arlington Plaza, here. $150,000.

N. J., Elizabeth—APARTMENT and STORE—S. Binder, 120 Broad St., will not construct 3 story and basement, brick and steel, plain foundation, 701-11 Grove St. $150,000. Project abandoned. Noted July 21.

N. J., Englewood — APARTMENT — J. English, Palisade Ave., having plans prepared by C. G. Eicholz, Jr., 960 Bergenline Ave., Union City, 5 story and basement, 50 x 130 ft., brick and steel, plain foundation, Hudson Ave. $190,000.

N. J., Mount Ephraim—THEATRE—T. Lazario, Mount Ephraim Ave., Camden, having plans prepared by Thalheimer & Weitz, 10 South 18th St., Phila., Pa., 1 and 2 story, rein.-con., brick and steel, plain foundation, here.

N. J., Newark—STORE and APARTMENT—Lindsley Holding Corp., % Myers, Bigelow & Shanley, archts., 24 Walnut St., having sketches 4 story and basement, brick and steel, plain foundation, Clinton Ave. $150,000.

N. J., Newark — THEATRE — Stanley-Fabian Co., 17 Academy St., will not construct 3 story and basement, brick and steel, Lyons Ave. and Clinton Pl. Project abandoned. W. E. Lehman, 946 Broad St., archt. Noted Aug. 4.

N. J., Passaic—APARTMENT—R. Pink c/o Preiskel & Skvarla, archts., 591 Main Ave., having plans prepared 4 story and basement, 110 x 115 ft., brick and steel, plain foundation, 395-403 Passaic Ave. $200,000.

N. J., Passaic — APARTMENT — Burg Bros., 171 Howard St., having plans prepared by Preiskel & Skvarla, 591 Main Ave., 4 story and basement, 80 x 125 ft., brick and steel, plain foundation, 98-104 Passaic Ave. $200,000.

N. J., Passaic—APARTMENT—Karpinsky & Leshinsky, 83 Quincy St., having plans prepared by Preiskel & Skvarla, 591 Main Ave., 4 story and basement, brick, 60 x 115 ft., brick and steel, plain foundation, 307 Gregory Ave. $150,000.

N. J., Passaic—APARTMENT—Passaic Securities Co., 631 Main Ave., having plans prepared by Preiskel & Skvarla, 591 Main Ave., 3 story and basement, 90 x 135 ft., brick and steel, plain foundation, 24-50 Summer St. $150,000.

N. J., Passaic—APARTMENT—L. Stein, 231 Lexington Ave., having new plans prepared by Preiskel & Skvarla, 591 Main Ave., 4 story and basement, 85 x 135 ft., brick and steel, plain foundation, 190-192 Lexington Ave. $225,000. Noted Oct. 13.

N. J., Passaic—CLUB HOUSE—I.O.O.F. c/o W. N. Gurtman, 105 Gregory Ave., having plans prepared by Preiskel & Skvarla, 591 Main St., 3 story and basement, brick and steel, plain foundation, Sherman St. and Lexington Ave. $150,000.

N. J., Plainfield — APARTMENT — S. Schwartz, 205 East Front St., will not construct 4 story and basement, 100 x 100 ft, brick and steel, plain foundation, West 7th St. and Irving Pl. $160,000. Project abandoned. A. F. Amodio, 45 Branford Pl., Newark, archt. Noted Sept. 15.

N. J., Shrewsbury—INSTITUTE—A. E. Fitkin, Allenhurst, and Ambassador Hotel, New York City, plans Raleigh Fitkin Memorial Institute, home for crippled children, on State Highway, here. $1,000,000. Engineer and architect not selected.

N. J., Teaneck (mail West Englewood)—APARTMENT—G. M. Pollard, archt., 260 West 14th St., New York City, takes bids about Dec. 5, 4 or 6 story and basement, brick and steel, plain foundation, here, for G. Murphy, 15 James St., Englewood. $150,000.

N. J., Westfield — APARTMENT — J. Lautermann, c/o N. Welitoff, archt., 3010 Hudson Blvd., Jersey City, having plans prepared 3 story and basement, brick and steel, plain foundation, 629 East Broad St. $150,000.

Pa., Upper Darby (Phila. P. O.)—COMMERCIAL—Tunis & Baker, archts., 1600 Arch St., Phila., soon lets contract 4 story and basement, 79 x 180 ft. rein.-con. brick and steel, plain foundation, West Chester Pike and Kent Rd., here, for A. S. Tourison, Jr., 7014 Boyer St., Phila.

Pa., Upper Darby (Phila. P. O.)—THEATRE—W. H. Lee, archt., Schoff Bldg., Phila., soon lets contract 2 story and basement, 144 x 159 ft., rein.-con., brick and steel plain foundation, here, for Green & Willig, Heymann Bldg., Phila.

Pa., Williamsport—Y. M. C. A., 30 Central Ave., having plans prepared by Laurie & Green, Odd Fellows Bldg., Harrisburg, 4 story and basement, 65 x 252 ft., rein.-con., brick and steel, plain foundation, here.

Md., Baltimore — APARTMENT — Gillet Realty Co., c/o Wyatt & Nolting, archts., Keyser Bldg., having plans prepared 12 story and basement, irregular shaped, rein.-con., brick and steel, plain foundation, 3908 North Charles St. $1,200,000.

La., New Orleans — HOTEL — Louise Realty Co. having plans prepared by Weiss & Dreyfous, Maison Blanche Bldg., 9 story hotel, Rampart and St. Louis Sts. $1,000,000.

Ill., Chicago — APARTMENT, OFFICE and STORE — Holabird & Roche, archts., 104 South Michigan Ave., soon take bids 6 story and basement, 100 x 200 ft., rein.-con., brick and stone, Michigan Ave. and Chestnut St., for Syndicate, c/o Frankenstein & Co., 110 South Dearborn St. Noted Oct. 27.

Ill., Chicago — BANK and OFFICE — Foreman Natl. Bank Co., 30 North La Salle St., had sketches made by Graham. Anderson, Probst & White, 80 East Jackson Blvd., bank and office building, La Salle and Washington Sts.

Ill., Chicago—CLUB—Cycraft Club, 1180 East 63rd St., having preliminary sketches made by Thielbar & Fugard, archts., 219 East Superior St., 17 story and basement, rein.-con, brick and stone, on 144 x 263 ft. site, 70th Pl. and South Shore Dr.

Ill., Chicago—GARAGE and STORE—G. E. Holmes, Lake St. and Wabash Ave., having plans prepared by D. D. Meredith, 222 West Adams St., 10 story and basement, 80 x 160 ft., L shaped, rein.-con., brick and stone, West Lake and Dearborn Sts. $2,000,000. Noted Feb. 3.

Ill., Downers Grove—THEATRE, OFFICE and STORE—E. T. Behrens, archt., 605 North Michigan Ave., Chicago, prepared plans and soon take bids 2 story and basement, 94 x 198 ft., brick and stone, here, for Dupage Building Corp. $150,000.

Ill., Evanston — Y. M. C. A., C. N. Stevens, pres. Bd. Directors, having plans prepared by C. H. Wallace, 435 North Michigan Ave., Chicago, expanding Y. M. C. A. buildings, 7 story central branch, incl. 60 x 90 ft. and 45 x 60 ft. gymnasiums, 25 x 75 ft. swimming pool, 6 handball courts, club rooms, cafeteria, dormitory, etc. Maple Ave. and Grove St., $1,086,000; also further development Emerson Street Branch, $100,000, etc.

Mo., St. Louis — APARTMENT — N. Frank, Arcade Bldg., plans 20 story and basement, 109 x 338 ft., rein.-con., brick, stone and steel, Chestnut St. between 19th and 20th Sts. $2,000,000.

Tex., San Antonio — GARAGES—Motoramp Garages, Inc., c/o O. A. McCracken, 215 North Alamo St. soon takes bids, 4 story garage, $250,000 and 5 story garage $350,000, both rein-con., brick and hollow tile, plain foundations A. B. and R. M. Ayres, 626 Bedell Bldg., San Antonio, archts.

Tex., San Antonio—HOTEL—A. Urrutia, et al, 205 North Laredo St., plans large tourist hotel near B'way Ave. $1,500,000.

Buildings—Commercial (Continued)

Calif., Eureka—HOSPITAL—F. M. Kay, clk. Humboldt Co., having revised plans prepared by F. T. Georgeson, hospital. $150,000 or more. Former contract rescinded. Noted Sept. 29.

Calif., Santa Barbara—HOTEL—Santa Barbara Inn, c/o A. S. Heineman, archt., 2608 South Figueroa St., having plans prepared hotel. $225,000.

Calif., San Francisco — RESTAURANT and STORE—Corporation being organized having preliminary plans prepared by A. H. Larsen, 447 Sutter St., 1 story, rein.-con., Great Highway. $150,000.

Calif., Santa Barbara—STORE and OFFICE — A. R. Demory, c/o Edwards, Plunkett & Howell, archts., having plans prepared 2 story and basement, 210 x 290 ft., brick, Figueroa St. $150,000.

Calif., Santa Monica—BANK and OFFICE—J. D. Rishell, 221 3rd St., having preliminary plans prepared by M. E. Durfee, Commercial Exchange Bldg., Los Angeles, 8 story and basement, 50 x 150 ft., steel, brick and rein.-con., 3rd St. and Santa Monica Blvd. To exceed $150,000.

Calif., Vallejo—HOTEL—H. Hendlery, et al., having preliminary plans prepared by Slocombe & Tuttle, 337 17th St., Oakland, 2 story and basement, Capitol and Sonoma Sts. $150,000.

Bids Desired

Mass., Boston — STORE and OFFICE — E. T. P. Graham, archt., 171 Newbury St., taking bids altering and reconstructing 4 story and basement, brick and stone, plain foundation, 165 Newbury St., for J. Stanton, 520 Beacon St. $150,000 or more.

Mass., Scituate—BANK—Rockland Trust Co., H. T. Fogg, 286 Main St., Rockland, taking bids 1 story and basement, rein.-con., brick and steel, plain foundation, Bank and Front St., here. $150,000. J. W. Beal Sons Co., 185 Devonshire St., Boston, archts.

Mass., Waltham—HOSPITAL—Nov. 25, by Dept. Mental Diseases, W. A. Merrill, bus. agt., Boston, five 3 story and basement, brick, steel and terra cotta buildings, plain foundations, Trapelo Rd., at junction of town lines, Waltham, Lexington and Belmont. $4,000,000.

N. Y., Brooklyn — APARTMENT — See "Cnotracts Awarded."

N. Y., New York — APARTMENT — See "Contracts Awarded."

N. J., Bloomfield—APARTMENT—See "Contracts Awarded."

N. J., Newark—OFFICE—W. Lehman, archt., 972 Broad St., taking bids general contract 4 story and basement, 35 x 150 ft., brick and steel, plain foundation, 56 Park Pl., for Feist & Feist, 738 Broad St. $150,000.

N. J., Palisades Park—APARTMENT—See "Contracts Awarded."

N. J., Ridgewood—APARTMENT — See "Contracts Awarded."

N. J., Roselle (Ind. br. Elizabeth)—APARTMENT—J. Walker, 153 Eas t9th Ave., taking bids 5 story and basement, 75 x 100 ft., brick and steel, plain foundation. $150,000. W. L. Finne, 91 Broad St., Elizabeth, archt.

La., New Orleans—STORE—Nov. 14, by F. H. McInerney, Roosevelt Hotel, 2 story, 96 x 128 ft. store, Burgundy St., and altering 33 x 127 ft. store, 1005-1007 Canal St., stucco, brick and hollow tile, for McCrory Stores Corp., 1107 Bway., New York City. $200,000. B. S. Merill, Title Guarantee Bldg., archt.

Ill., Chicago—APARTMENT and STORE—Leichenko & Esser, archt., 38 South Dearborn St., taking bids 3 story and basement, 102 x 176 ft., rein.-con., brick and stone, Kedzie and Northan Aves., for Humboldt Plaza Building Corp., c/o architects. Archts. est. $250,000.

Ill., Chicago—APARTMENT and STORE—See "Contracts Awarded."

Ill., Chicago—APARTMENT and STORE—J. J. Jensen, archt., 1105 Lawrence Ave., taking bids 3 story and basement, 100 x 124 ft., brick and white terra cotta, Devon and Glenwood Aves., for C. Wishnack, 6300 Kenmore Ave. $300,000.

Mo., Bridgeton — ADMINISTRATION — See "Unclassified."

Mo., St. Louis — APARTMENT — See "Contracts Awarded."

Calif., Redondo Beach — THEATRE, STORE and OFFICE—See "Contracts Awarded."

Ont., Toronto — APARTMENT — M. J. Ingram, 989 Kingston Rd., taking bids 6 story and basement, 75 x 235 ft., rein.-con., brick and steel, plain foundation, Jarvis St. near Gerrard St. $500,000. N. A. Armstrong & Co., 7 King St. E., archts.

Ont., Toronto — APARTMENT — See "Contracts Awarded."

Contracts Awarded

Mass., Framingham — OFFICE — West Boston Gas Co., 49 Howard St., 3 story, 75 x 145 ft., brick, steel and limestone, Union and Pearl Sts., to D. E. McIntire, Inc., 74 Broad St., Boston. Archts. est. $150,000. Noted Oct. 6.

Mass., Framingham — OFFICE — West Boston Gas Co., 49 Howard St., 2 story and basement, 80 x 220 ft., brick and stone, plain foundation, Howard St., to D. E. McIntire, Inc., 74 Broad St., Providence, R. I. Archts. est. $150,000.

Conn., Hartford — APARTMENT — S. I. Ward & Co., 750 Main St., 3 story, 50 x 170 ft., brick and steel, Evergreen St., to L. Schoolnick, 44 Hebron St. Archts. est. $160,000. Noted Oct. 27.

Conn., Stamford — APARTMENT — V. Vacca, 301 West Ave., will build 2 story, 135 x 140 ft., brick, steel and artificial stone, Quintard Terrace. $200,000. Vacca & Zilluca, c/o owner, archts.

N. Y., Brooklyn — APARTMENT — H. Shurgin, 715 Avenue S, will build 6 story and basement, 87 x 120 ft., brick, plain foundation, West 9th St. and Quentin Rd. $200,000. Work will be done by separate contracts. M. Courtland, 366 5th Ave., New York City, archt. Noted Sept. 29.

N. Y., Corning — HOTEL — Thomas, Martin & Kirkpatrick, archts., 210 South 16th St., Phila., Pa., 5 story and basement, 70 x 106 ft., rein.-con., brick and steel, plain foundation, here, to George A. Fuller Co., 949 Bway., New York City, for Corning Hotel Corp. $359,000. Noted Oct. 13.

N. Y., New York—APARTMENT—Hildron Realty Corp., 1026 East 179th St., will build 6 story, 85 x 175 ft., brick, 514 West 211th St. $200,000. Work will be done by separate contracts. G. Swiller, 4215 3rd Ave., archt.

N. Y., New York — APARTMENT HOTEL—One Park Avenue Corp., 1 Park Ave., will build 15 story, 80 x 89 ft., brick and steel, plain foundation, 116-122 East 39th St. $500,000. Work will be done by separate contracts. Farrar & Watmough, 1 Park Ave., archts. Noted July 28.

N. Y., New York — APARTMENT — Aginsky, 20 Featherbed Lane, 6 story and basement, 87 x 175 ft. apartment, Knox Pl. and Gunhill Rd. $350,000. Work will be done by separate contracts. H. I. Feldman, 415 Lexington Ave., archt.

N. Y., New York—APARTMENT—Preferred Building Corp., c/o C. Schaefer, Jr., archt., 334 East 149th St., will build 6 story and basement apartment, Mount Eden Ave. and Grand Concourse. $275,000. Work will be done by separate contracts.

N. Y., New York — APARTMENT — Viapitia Realty Co., 655 East Fordham Rd., will build 6 story, 115 x 149 ft., brick and steel, plain foundation, Tiebout Ave. near 184th St. $310,000. Work will be done by separate contracts. Moore & Landsiedel, 3rd Ave. and 148th St., archts.

N. Y., New York—APARTMENT—Preferred Building Corp., c/o C. Schaefer, Jr., archt., 334 East 149th St., will build 6 story and basement apartment, Sheridan and Mt. Eden Aves. $275,000. Work will be done by separate contracts.

N. Y., New York—BANK—Natl. Bank of Yorkville, 85th St. and Lexington Ave., altering 1 story and basement bank, 205 East 86th St., masonry, to H. Westerman, 391 East 149th St.; and iron, to A. Happel, 408 East 93rd St. Archts. est. $150,000.

N. Y., New York — OFFICE — Wall Hanover Street Realty Co., 35 story and basement, brick and steel, Wall, Beaver and Hanover Sts., to Starrett Bros., 101 Park Ave. Archts. est. $3,000,000.

N. Y., New York — OFFICE — John D. Rockfeller, Jr., 48 x 122 ft. office building 5th Ave. and 54th St., to Marc Eidlitz & Sons, 41 East 42nd St. Archts. est. $500,000.

N. Y., Rockville Center — HOSPITAL — Hart & Shape, archts., 247 Park Ave., New York City, general contract incl. electrical work 3 story, brick and steel, plain foundation, here, for Rockville Center Hospital, to J. H. Eisele Co., 18 East 41st St., New York City, $150,000; plumbing and heating, to Metcalf & Co., 287 Observer St., $40,000. Noted Oct. 13.

N. Y., Woodside (Ind. br. Flushing)—APARTMENT—Lerose Constr. Co., 570 7th Ave., New York City, will build 6 story and basement, 100 x 150 ft., brick, plain foundation, Foster Ave. and Packard St., here. $250,000. Work will be done by separate contracts. M. J. Harrison, 63 Park Row, New York City, archt. Noted Sept. 29.

N. J., Bloomfield—APARTMENT—Paramount Realty & Constr. Co., 60 Branford Pl., Newark, will build 4 story and basement, 40 x 150 ft., brick and steel, plain foundation, Myrtle Ave., Orange, and Dodd Sts., here. $150,000. Work will be done by separate contracts. R. Kruger, 60 Branford Pl., Newark, archt. Noted Sept. 22.

N. J., Deal — APARTMENT — F. Hook, Avon, general contract 3 story and basement, 100 x 125 ft., brick, steel and stucco, plain foundation, East Ocean Ave., to James Sutherland, 133 South 15th St., Newark. Archts. est. $180,000. Noted May 19.

N. J., Palisades Park—APARTMENT—Builders Supply Co., Broad Ave. and East Palisade Blvd., will build 5 story and basement, brick and steel, plain foundation, Broad Ave. and East Palisade Blvd. $200,000. Work will be done by separate contracts. H. Lucht, 432 Palisade Ave., Cliffside, archt.

N. J., Ridgewood — APARTMENT—Franklin Court of Ridgewood, Inc. will build 4 story and basement, 120 x 140 ft., brick and steel, plain foundation, North Oak St. and Franklin Ave. $350,000. Work will be done by separate contracts.

N. J., Rutherford—OFFICE—Pub. Serv. Production Co., archts., 80 Park Pl., Newark, general contract 2 story and basement, 60 x 140 ft., brick and steel, plain foundation, here, to Kirkpatrick Constr. Co., 185 Market St., Newark, for Pub. Serv. Electric & Gas Co., 80 Park Pl., Newark. Archts. est. $150,000. Noted Oct. 13.

Pa., Bryn Mawr — BANK — Bryn Mawr Trust Co., 3 story and basement, 84 x 105 ft., and 30 x 64 ft., rein.-con., brick and stone addition, plain foundation, to F. L. Hoover & Son, 1023 Cherry St., Phila. Noted Oct. 6.

Pa., Elizabethtown — HOSPITAL—Dept. Pub. Health, T. B. Appel, secy., Capitol, Harrisburg, general contract Unit 3, Crippled Children's Hospital, 2 wings each 2 story and basement, 51 x 172 ft., rein.-con. and brick, plain foundation, here, to F. K. Worley Co., Wesley Bldg., Phila., $182,126. Noted Oct. 20.

W. Va., Charleston — HOTEL — Capitol Hotel Site Co., for Daniel Boone Hotel, 12 story and basement, 250 room, rein.-con., brick, steel, stone and terra cotta, Lee and Dickinson Sts., to William H. Smith Co., 110 North 7th St., St. Louis, Mo. Archts. est. $750,000.

Md., Baltimore — OFFICE — Wyatt & Nolting, archts., Keyser Bldg., 5 story top addition and 12 story, 40 x 42 ft., brick and limestone addition, to J. H. Miller, Inc., Eutaw and Franklin Sts., for U. S. Fidelity & Guaranty Co., Calvert and Redwood Sts. $450,000. Noted Oct. 20.

Ga., Atlanta—BANK and OFFICE—A. Candler, Ponce de Leon Ave., 3 story, 35,000 sq.ft., floor space, brick and steel, plain foundation, to Carr Constr. Co., Candler Bldg., $200,000.

Ind., Elkhart — APARTMENT — N. J. Hill Co., 230 West Jackson St., general contract 3 story and basement, rein.-con., brick, steel and stone, to D. Gorhom, 1605 Morton Ave. Archts. est. $160,000.

Ill., Chicago — APARTMENT — H. K. Holsman, archt., 307 North Michigan Ave., masonry and carpentry contract 7 story, 34 x 90 ft., rein.-con., brick and stone, 56th St. and Kenwood Ave., for Kenwood-Fifty-Sixth St. Building Corp., c/o architect, to R. Sollitt & Sons 228 North State St.; plumbing, to P. Nacey, 927 South State St.; and heating, to P. T. Maloney, 2231 East 67th St.. Archts. est. $300,000. Noted Aug. 11.

Ill., Chicago — APARTMENT — D. S. Klafter, archt., 64 West Randolph St., general contract 17 story and basement, 170 x 288 ft., Sheridan Rd. and Aldine Ave., to Reliance Co., 11 South La Salle St., for Trinity-Two-Seventy Sheridan Road Building Corp. Archts. est. $2,000,000.

Ill., Chicago — APARTMENT HOTEL — J. H. Klafter, archt., 127 North Dearborn St., masonry, carpentry and concrete work 4 story, 75 x 125 ft., rein.-con., brick and terra cotta, 1049-53 Oakdale Ave., to J. Busa & Sons, 4716 North Tallman Ave.; plumbing, to Handler Plumbing Co., 373 Blue I. Ave., for Syndicate, c/o architect. Noted May 12.

Ill., Chicago—APARTMENT and STORE—A. Eisenstein, 105 West Monroe St., masonry and carpentry contract 3 story and basement, 111 x 140 ft., Madison and Mayfield Sts., to J. Busa & Sons, 4716 North Tallman Ave.; terra cotta, to Amer. Terra Cotta Co., 1701 Prairie Ave.; plumbing, to H. P. Reger & Co., 106 North La Salle St.; and iron work, to Reuter Bros., 5814 South Wood St. Archts. est. $300,000. Noted Sept. 1.

Ill., Chicago—APARTMENT and STORE—Wallach Bros., 134 North La Salle St., will build 3 story and basement, 125 x 125 ft., brick and stone, Lawrence and Harding Sts. $250,000. Work will be done by separate contracts. Halperin & Brown, 19 South La Salle St., archts.

Ill., Chicago—BANK, OFFICE, STORE and APARTMENT—Cramer & Foot, 65

Buildings—Commercial (Continued)

East 79th St., masonry contract 3 story and basement, 125 x 175 ft., brick and stone, 79th and State Sts., to Erick-Christianson Co., 6437 South Park Ave. Archts. est. $750,000. Noted Oct. 13.

Ill., Chicago—HOTEL, STORE and OFFICE—B. F. Lindheimer, 77 West Washington St., general contract, 10 story, on 275 x 275 ft. site, 63rd St. and Maryland Ave., to H. D. Moreland & Co., 3701 Sheffield Ave. Noted June 23.

Ill., Chicago — WAREHOUSE — Underwriters Salvage Co., 771 West Jackson Blvd., masonry and carpentry contract 6 story, 123 x 125 ft., face brick, 215-227 Laflin St., to J. Shedden Co., 106 North La Salle St. Archts. est. $300,000.

Mo., St. Louis—APARTMENT—Duncan & Garrison, 1105 Chestnut St., will build 4 story and basement, 104 x 155 ft., rein.-con., brick and terra cotta, Sarah St. and Enright Ave. $300,000. M. D. Garrison, 5830 Columbia Ave., archt. Work will be done by separate contracts.

Mo., St. Louis — APARTMENT — Versailles Building Co., c/o Willson & Koontz Realty Co., 18 North 8th St., will build 10 story and basement, 45 apartment, rein.-con., brick and terra cotta, Skinker and Rosebury Aves. $1,200,000. Work will be done by separate contracts under supervision E. Wagner of Willson & Koontz Realty Co., 18 North 8th St.

Tex., Houston — MAUSOLEUM — J. F. Eubank, 1317 Peden Ave., c/o Forest Park Cemetery Assn., marble and granite mausoleum, in Forest Park Cemetery, to Community Mausoleum Co., 713 Epperson Bldg., Houston, $500,000.

Tex., Marshall — HOSPITAL — Texas & Pacific Ry. Co., E. F. Mitchell, ch. engr., Dallas, general contract 2 story, 40 x 186 ft., rein.-con., brick and steel, here, to L. H. Lacy Co., 2632 Swiss Ave., Dallas, $125,665. Noted Oct. 27.

Tex., Port Arthur—MASONIC TEMPLE—Cosmopolitan Lodge 872 A. F. and A. M., c/o C. Stevenson, chn. building comn., general contract 3 story and roof garden, 100 ft. frontage, rein.-con., brick and stone, Lake Shore and Lake Charles Ave., to Hickey & Harrington, 819 Petroleum Bldg., Houston, $124,717. Noted Sept. 22.

Tex., San Angelo—COURTHOUSE—Tom Green Co., general contract 3 story and basement, 66 x 193 ft., rein.-con., brick, steel, and Indiana limestone, to P. O. B. Montgomery, 808½ Commerce St., Dallas, $239,700. Noted June 30.

Okla., Tulsa—GARAGE—S. J. Caudill, Atlas Life Bldg., 6 story and basement, 50 x 140 ft., rein.-con. and brick, plain foundation, Boulder St., to R. M. Gillilan, 1107 South Columbia St., $200,000.

Calif., Los Angeles—BANK and OFFICE—Pacific Southwest Realty Co., 565 South Spring St., 6 story, 72 x 110 ft., with 190 ft. tower, Hollywood Blvd., to Meyer & Holler, Wright-Callender Bldg., $475,000.

Calif., Los Angeles—THEATRE, STORE and APARTMENT—N. O. Harmon, 2 story and part basement, brick, Dayton and Cypress Aves., to S. O'Neil Co., Rives-Strong Bldg., approximately $155,000.

Calif., Pasadena — THEATRE—A. Pantages, 913 Pantages Theatre Bldg., Los Angeles, approximately 4 story, rein.-con. theatre, to P. A. Palmer, Pasadena, $500,000. Noted Apr. 7.

Calif., Redondo Beach — THEATRE, STORE and OFFICE—Venice Impvt. Co., c/o J. P. Perrine, Lincoln Bldg., Los Angeles, will build 2 story and basement, rein.-con. and steel theatre, 2,000 seating capacity, by day labor and sub-contracts. $250,000.

Calif Woodland—HOTEL—Weeks Investment Co. 369 Pine St., San Francisco, 4 story and basement, concrete, Main and College Sts., to C. Nilsson, 666 Mission St., San Francisco, $235,000. Noted Aug. 4.

Ont., Toronto — APARTMENT — J. E. Hoare, Cheritan and Duplex Aves., will build 3 story and basement, 50 x 100 ft., rein.-con., brick and steel, plain foundation, Poplar Plains Crescent and Avenue Rd., by day labor. $150,000. Private plans.

Buildings—Industrial

Proposed Work

R. I., Bristol—PLANT—Narragansett Electric Lighting Co., Turks Head Bldg., Providence, W. C. Bell, mgr., plans power plant, Main Rd. and Gooding Ave. To exceed $40,000. Engineer and architect not selected.

Conn., Stamford—CHEMICAL PLANT—Richards & Co., Inc., Ludlow St., plans rebuilding chemical plant, destroyed by fire. to exceed $40,000.

N. J., Hoboken — FUR RENOVATING FACTORY—J. M. Ryan, 1414 Adams St., having plans prepared by P. A. Vivarttas 110 48th St., Union City, 3 story and basement, 55 x 100 ft., rein-con., brick and steel, plain foundation. $40,000.

N. J., Newark—SHOWROOM, STORAGE and DISTRIBUTION — Boyertown Buriel Casket Co., Boyertown, Pa., having plans prepared by F. A. Phelps, 21 Fulton St., remodeling 4 story and basement, brick and steel, plain foundation, 342-50 Central Ave., here.

Pa., East Lansdowne (mail Lansdowne) —WAREHOUSE—James R. McCue & Bro., soon lets contract 1 story and basement, 70 x 200 ft., brick and steel, plain foundation. W. Bennett, Mutual Home Bldg., Dayton, O., archt.

Ala., Gorgas—POWER PLANT—T. W. Martin, pres. Alabama Power Co., 600 North 18th St., Birmingham, had plans prepared (1st unit) 50,000 kw. capacity steam electric power plant, near here. $5,000,000. Total $20,000,000.

Miss., Columbus — FACTORY — A. H. Barber & Co., 216 North Canal St., Chicago, Ill., having plans prepared cheese factory, 200,000 lb. milk per day, here. Engineer and architect not selected.

Ind., Indianapolis—MACHINE SHOP and GARAGE—Test Realty Co., c/o Bishop-Knowlton-Carson, archt., 312 North Meridian St., having preliminary plans prepared 3 story and basement, 100x165 ft., rein.-con. and brick, 1452-1454 Pennsylvania St. $92,000.

Mich., Mason—HEATING PLANT—See "Buildings—Commercial."

Ill., Chicago—PRINTING PLANT—A. S. Alschuler, archt., 28 East Jackson Blvd., preparing plans and soon takes bids 10 story and basement, 127x150 ft. rein.-con. and brick addition, 346,500 sq.ft. floor space, 318-328 South Jefferson St., for J. T. Igoe, 610 West Van Buren St. $1,000,000.

Mo., Bridgeton—POWER PLANT—See "Unclassified."

Mo., St. Joseph—WAREHOUSE and FACTORY, etc.—Hillyard Chemical Co., 801 South 9th St., had plans prepared by E. R. Meirer, Logan Bldg., and soon takes bids 3 story and basement, rein.-con., brick and steel warehouse, factory and office building, 9th and St. Mary Sts. $100.000.

Tex., Chihuahua (mail Mission)—COLD STORAGE PLANT—Central Power Light Co., c/o F. C. Ludden, mgr., San Benito, having preliminary surveys made 1 story, brick and concrete plant in Hargill, near here. $45,000. Private plans.

Okla., Ponca City—OIL REFINERY—Empire Refineries Co., Bartlesville, having plans prepared additional buildings, boilers, stills, compressors, pumps, loading and storage tanks, etc., here. $850,000. Private plans. Noted May 5.

Tex., Nocona — POWER PLANT — Texas-Louisiana Power Co. having preliminary plans prepared 150 x 250 ft., brick and rein.-con. power plant, 3,600 hp., near here. $325,000. Private plans.

Calif., Berkeley—FACTORY and PACKING PLANT—H. J. Heinz Corp., 2nd St., San Francisco, having plans prepared 2 story, 200 x 767 ft., fireproof, San Pablo and Heinz Aves. $1,000,000. Austin Co. of California, 244 Kearny St., San Francisco, engrs.

Bids Desired

Mass., Everett (br. Boston) — SUBSTATION — Malden Electric Co., 139 Pleasant St., Malden, taking bids 3 story, 35 x 65 ft., rein.-con., brick and steel, plain foundation, Thorndike St. $50,000. C. H. Tenney Co., 200 Devonshire St., Boston, engrs.

N. Y., New York—REPAIR—Nov. 18, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., constructing repair building at 28-32 Vandewater St.

N. Y., Prattsville — MAINTENANCE — Nov. 22, by Bd. Water Supply, Municipal Bldg., Park Row, Centre and Chambers Sts., New York City, maintenance building on Schoharie watershed, here; adv. E. N.-R. Nov. 10.

Wis., Milwaukee — LAUNDRY — A. H. Kienapple, archts., 445 Milwaukee St., taking bids general contract 1 and 2 story, 120x217 ft. rein.-con., brick and steel, plain foundation, Muskego Ave., for South Side Wet Wash Laundry, Inc., 641 15th Ave. $100,000. Noted Aug. 11.

Neb., Ralston — BRICK PLANT — See "Contracts Awarded."

Tex, Brownwood—GASOLINE PLANT—See "Contracts Awarded."

Contracts Awarded

Vt., Cavendish — DYE HOUSE — Gray Bros. Co., 1 story, 65 x 85 ft., brick and steel, plain foundation, to Aberthaw Co., 80 Federal St., Boston, Mass. Engrs. est. $40,000.

Mass., Brighton (Sta. Boston)—SALES, SERVICE and REPAIR SHOP—Argonaut Realty Corp., c/o H. C. Hickey, General Motors Bldg., Detroit, Mich., 2 story, rein.-con. and stone, plain foundation, North Beacon St., here, to Everett Winters Co., 1651 Grand Blvd., Detroit, Mich., and c/o J. T. Hugh, Hotel Statler, Boston. Archts. est. to exceed $150,000.

Mass., Brookline (br. Boston)—SERVICE, SALES and REPAIR SHOP — Cadillac Motor Car Co., 2860 Clark St., Detroit, Mich., 2 story and basement, 180 x 245 ft., rein.-con., brick, steel and stone, plain foundation, Commonwealth Ave. and Essex St., here, to W. A. and H. A. Root, 250 Stuart St., Boston. To exceed $40,000. Noted Oct. 20.

Mass., Cambridge (br. Boston)—FACTORY—Holland System, Inc., D. J. Holland, 27 Haymarket Sq., Boston, altering and reconstructing 3 story, brick, plain foundation, 31-45 Main St., here, to M. Slotnick, 333 Washington St., Boston. Archts. est. $40,000 or more.

Mass., Hudson — SALES, SERVICE and REPAIR SHOP —Clark's Chevrolet Co., Main St., 1 story, rein.-con., plain foundation, Lower Main St., to T. P. Hurley, 196 Main St., Marlboro. Engrs. est. $40,000.

N. Y., New York—SHOPS—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., constructing buildings and shops at 207th St. Yard, here, to Eastern Constr. Co., 110 West 40th St., $4,170,000. Noted Oct. 6.

N. Y., New York — LAUNDRY and POWER HOUSE—B. S. Coler, comr. Welfare, Municipal Bldg., altering and constructing additions to laundry and power house at Lincoln Hospital, Concord Ave. and East 141st St., Bronx Boro, to W. W. Costro. Co., 15 West 40th St., $108,700. Noted Oct. 20.

N. J., Newark — FACTORY — L. A. Myers, Jr., Inc., 139 Ogden St., general contract 2 story, 78 x 90 ft., brick and steel, plain foundation, 137-141 Ogden St., to Shore Constr. Co., 94 Christee St. Archts. est. $40,000. Noted Nov. 3.

Tenn., Happy Valley (Elizabethton P. O.)—FACTORY — Amer. Glanzstoff Co., steel contract for factory, to McClintic Marshall Co., 50 Church St., New York City; and foundation, to Hughes-Foulkrod Co., Commonwealth Bldg., Phila., Pa. Engrs. total est. $37,500,000.

Ind., Indianapolis—MACHINE SHOP—I. Wolf, 555 North Capital St., 49x128 ft., steel and cement block, 722-4 North Capitol St., to C. F. Pollard, 3174 School St. Archts. est., $40,000.

Ind., Indianapolis—PLANT and GARAGE—Western Oil Co., 310 North Meridian St., 76x120 ft., brick and steel, 2802 East New York St., to Brown & Mick, 226 East Michigan St. Archts. est., $40,000.

Mich., Pontiac—AUTO FACTORY—Oakland Motor Car Co. (one unit), 1 story, 540 x 640 ft., rein.-con., brick and steel, plain foundation, Oakland Ave., to W. E. Wood Co., 1805 Ford Bldg., Detroit. Archts. total est. $2,000,000. Noted Oct. 20.

Ill., New Athens—PLANT—Auto Stove Wks., G. Wirth, pres. and genl. mgr., 2 story and basement, 144 x 265 ft., rein.-con., brick and steel, incl. foundry, storage room, assembly plant, etc., to Bauer Bros. Constr. Co., 424 Lebanon St., Belleville. Archts. est. $100,000.

Neb., Ralston—BRICK PLANT—Krittenbrink & Sons Brick Co., 13th and Frederick Sts., Omaha, will build 46x140 ft. dryer house, 40x50 ft. cold air exhaust and hot air fan house and garage, also 22x26 ft. office building, etc., here, by day labor. $150,000. J. P. Guth, 516 Paxton Bldg., Omaha, archt. Noted Sept. 1.

Mo., St. Louis — CANDY FACTORY — Natl. Candy Co., 208 North Bway., general contract 5 story, basement and sub-basement, rein.-con., brick and steel, Gravois and Bingham Aves., to Gamble Constr. Co., 620 Chestnut St. Archts. est. $1,000,000. Noted Aug. 4.

Mo., St. Louis—FACTORY—C. G. Kruckemeyer Machine & Parts Co., 1365 Cockrill Ave., 1 story, 7,500 sq.ft. floor space, rein.-con. and steel, Minerva Ave. and Hodiamont Ry. tracks, to Truscon Steel Co., Syndicate Trust Bldg., St. Louis. Archts. est. $50,000.

Texas—POWER PLANTS—Texas Power Corp., c/o F. H. Willmot, pres., Seguin, 2 rein.-con., brick and steel hydro-electric power plants, 2 concrete steel dams with special Weir steel lifts carry water in 12 ft. flood stage, and two 1 mi. canals, etc. on Guadelupe River near San Antonio between Seguin and Gonzales, to Summer Sollitt Co., Natl. Bank of Commerce Bldg., San Antonio, approximately $2,000,000.

Buildings—Industrial (Continued)

Tex., Brownwood—GASOLINE PLANT—Roxana Oil Co., c/o City Natl. Bank Bldg., San Antonio, will build gasoline in Rosenfield Pool near here, by day labor. $150,000. Private plans.

Tex Brownwood—GASOLINE REFINING PLANT—Amerada Petroleum Corp., will build gasoline refining plant, by day labor. $125,000. Private plans.

Tex., Mount Pleasant — HARDWOOD MILL—G. C. Ehemann Co., Bank of Commerce Bldg., Memphis, Tenn., will build hardwood mill, here. $45,000. Private plans. Noted Aug. 18.

Tex., San Antonio—CREAMERY—Alford Pure Milk & Ice Co., c/o Phelps & DeWees, archts., 718 Gunter Bldg., rein.-con., brick, hollow tile and stucco, plain foundation, Presa and Garden Sts., here, to Granberg & Balzen, 1127 South Hackberry St., $75,000, incl. machinery.

Wash., Seattle — PACKING PLANT — Barton Packing Co., Spokane and Wyoming Sts., 4 story and basement, 160 x 240 ft., fireproof plant and office, East Marginal Way and Dwamish St., to Puget Sound Bridge & Dredging Co., Central Bldg. Archts. est. $250,000. Noted Sept. 8.

Calif., Los Angeles—FACTORY—J. C. Ingram, c/o Ingram & Co., 2 story and basement, 150 x 162 ft., rein.-con. and steel, Alosta and Pitts Sts., to J. M. Cooper, 301 Rives-Strong Bldg., $86,400. Noted June 23.

Calif., San Francisco — PIPE SHOP — Crane Co., 2nd and Brannan Sts., brick and steel annex, to J. C. Ray, Monadnock Bldg., approximately $40,500.

Ont., Galt—FACTORY—B. F. Sturtevant Co. will build 1 story, 60x150 ft. factory, 1st Ave. $50,000. Private plans.

Ont., Hamilton—FACTORY — Dominion Sheet Metal Co., 1 story 100 x 175 ft., concrete and steel, Burlington St., E., to W. H. Cooper, 6 Hughson St.; and steel, to Hamilton Bridge Co. Hamilton.

Ont., Niagara Falls — CREAMERY — Cairns Creameries, 535 Simcoe St., 2 story, 100 x 100 ft., tile and stucco, Ellen St., to D. Bawtenheimer, 2 Clifton St. Archts. est. $100,000.

Ont., Ottawa—GARAGE—Beach Motors Ltd., Bank St., rein.-con., brick and steel addition, plain foundation, to R. Meagher, Elgin St., $50,000. Noted Oct. 6.

B. C., New Westminster—RACK HOUSE Gardiner & Mercer, archts., Berks Bldg., Vancouver, general contract 7 story, 134 x 150 ft., rein.-con. rack house at Sapperton Plant, here, for British Columbia Distillery Co., Braid St., to Pacific Engineers Ltd., 827 Powell St., Vancouver, $168,000.

Buildings—Educational, Religious

Proposed Work

Mass., Gardner — CHURCH — Methodist Episcopal Church had plans prepared by A. Smith, 58 Front St., Worcester, 1 story and basement, brick and stone, Chestnut St. $150,000.

Conn., New Britain—DORMITORY—State Normal School, State Bd. Educ. having preliminary plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, N. J., brick and steel dormitory. $500,000. Noted Jan. 13.

N. J., North Arlington (mail Arlington) —SCHOOL—Bd. Educ., Boro Hall, Ridge Rd., plans 2 story and basement, brick and steel, plain foundation, Hedden Terrace and Prospect Ave. $150,000. Engineer and architect not selected.

N. J., North Plainfield—SCHOOL—Bd. Educ., 125 Somerset St., having plans prepared by J. N. Pierson & Son, 200 Jefferson St., Perth Amboy, 2 story and basement, brick and steel, plain foundation, West End Ave. $150,000.

N. J., Orange — CHURCH, SUNDAY SCHOOL, CHAPEL and HALL — E. P. Mellon, archt., soon lets contract 350 Madison Ave., New York City, general contract 2 story and basement, brick and steel, plain foundation, Main and Scott Sts., here, for 1st Presbyterian Church, 20 Cleveland Ave. $150,000.

N. J., Palisades Park—SCHOOL—Bd. Educ., Boro Hall, Broad Ave., plans 2 story and basement, brick and steel, plain foundation. $150,000. Engineer and architect not selected.

O., Cincinnati—SCHOOL—Purcell High School, 2436 Reading Rd., having plans prepared by Crowe & Schulte, 2436 Reading Rd., 3 story and basement, brick and rein.-con., plain foundation, Hackberry Rd. $500,000.

O., Cleveland—CONVENT—Church of the Jesu, F. J. Rudden, pastor, West 30th St. and Lorain Ave., having plans prepared by E. T. P. Graham, 171 Newbury St., Boston, Mass., and F. S. Fish, 6007 Euclid Ave., 3 story and basement, 50 x 150 ft., brick, steel and concrete Silsby and Traymore Rds. $150,000.

Ill., Chicago — NURSES HOME — City having sketches made by A. E. Robinson, City Hall, 4 story and basement, 60 x 180 ft., rein.-con., brick and stone, 3024 South California Ave. $400,000.

Ill., Chicago — CHURCH and COMMUNITY CENTER—Friendship Center, 9114 Houston Ave., having plans prepared by Granger & Bollenbacher, 332 South La Salle St., 1 and 3 story, 91st St. and Houston Ave. $200,000.

Minn., Minneapolis—HOSPITAL TRAINING SCHOOL — Fairview Hospital, J. Bjorhus, chn. building comn., 2312-6th St. S., having plans prepared by Long & Thorahov, archts. and engrs., 1028 Andrus Bldg., 6 story and basement, U-shaped, rein.-con. and Bedford stone, Bjornson St. S. E. and Mississippi River. $300,000. Noted June 2.

Mo., St. Louis—CHURCH—Fifth Church of Christ Scientist, W. H. Clarkson, chn., 3630 South Grand Blvd., having plans prepared by Wedemeyer & Nelson, 824 Wainwright Bldg., 1 story and basement, 125 x 135 ft., rein.-con., brick and stone, Potomac and Arkansas Sts. $200,000. Former contract rescinded. Noted Apr. 28.

Tex., Harlingen—HIGH SCHOOL—Voted $280,000 bonds, high school. Address Bd. Educ., c/o R. B. Hamilton, secy.

Bids Desired

Me., Brunswick—COLLEGE—Nov. 12, by Bowdoin College, c/o Payson, 2 story and basement, 65 x 120 ft., brick and steel, on campus, $160,000. McKim, Mead & White, 101 Park Ave., New York City, archts.

R. I., Providence—COLLEGE—Providence College, W. D. Noon, pastor, taking bids 3 story and basement, brick, steel and stone, Eaton and River Sts. $400,000. J. W. Donahue, 1242 Main St., Springfield, archt. Noted Aug. 25.

N. Y., Brooklyn—SCHOOLS—Nov. 29, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., general contract P. S. 204, 15th Ave. from 81st to 82nd Sts., and P. S. 121, 20th Ave. from 53rd to 54th Sts., for Bd. Educ., 500 Park Ave., New York City. Noted Oct. 13.

N. J., Livingston—SCHOOL—Nov. 18, by Bd. Educ., Central School, 2 story and basement, 40 x 91 ft. addition to Squiertown School, 144,000 cu.ft. floor space. Guilbert & Betelle, Chamber of Commerce Bldg., Newark, archts. Noted Oct. 20.

N. J., Trenton—NURSES HOME—Nov. 18, by C. N. Leathem, state archt., State Bldg., 2 story nurses home, brick, and 2 story patients building, stone, for Dept. Institutions & Agencies.

O., Cincinnati—SCHOOLS—Nov. 28, by Bd. Educ., Denton Bldg., 2 schools, one on Eastern Ave., $325,000, and other Harvey St., $150,000, both 2 story and basement, brick and rein.-con., plain foundations. Fechheimer & Ihorst, 1010 Schmidt Bldg., archt. Noted Aug. 4.

Tex., Abilene—CHURCH—W. Nichol & G. Campbell, archts., 29 Redford Bldg., taking bids 4 story, 65 x 140 ft., brick, steel and rein.-con. church for Baptist Church, c/o W. Jackson, Abilene. $150,000.

Okla., Norman—UNIVERSITY—Nov. 15, c/o B. S. Graham, dir. Student Union Corp., 3 story and basement, rein.-con. and brick, plain foundation, on campus. $250,000. Sorey & Vahlberg, Braniff Bldg., Oklahoma City, archts.

Contracts Awarded

Mass., Quincy (Ind. br. Boston) — CHURCH — Sacred Heart Parish, J. J. Casey, pastor, Atlantic, 1 story and basement, 100 x 185 ft., brick and granite, plain foundation, Hancock and Glover Sts., Atlantic Section, to B. W. Neal, 293 Boylston St., Brookline. Archts. est. $150,000 or more.

Conn., East Haven (br. New Haven)—LIBRARY—Hagaman Memorial Library, 2 story and basement, 70 x 120 ft., brick, steel, tile and stone, Main St., to H. Wales Lines Co., 134 State St., Meridan, Archts. est. $150,000. Noted Oct. 27.

N. Y., New York — TEMPLE — Temple Peni-El, general contract 1 story, 72 x 102 ft., stone, plain foundation, 132-136 West 79th St., to C. Newmark, 3410 Bway. Archts. est. $350,000. Noted May 26.

N. J., Hoboken—CHURCH—Church of Sts. Peter & Paul, 404 Hudson St., general contract 1 story and basement, brick and steel, plain foundation, 404 Hudson St., here, to J. A. Meenan, 153 West 72nd St., New York City. Archts. est. $150,000.

N. J., Jersey City — SCHOOL — St. Aloysius Academy, 719 Westside Ave., general contract 3 and 4 story, 60 x 135 ft., brick and steel, plain foundation, Kensington Ave. and Hudson Blvd., to James Mitchell, Inc., 40 Journal Sq. Archts. est. $150,000.

N. C., Greensboro — COLLEGE — North Carolina College for Women, 2 dormitories, home economics building, and kitchen wing on campus to W. P. Rose, Goldsboro, $570,000.

Miss., Natchez—SCHOOL—Bd. Educ., c/o W. H. Braden, secy., 2 story, 186 x 200 ft., rein.-con., brick and steel, to McArthur & McLemore, M. & W. Bldg., Meridian, $168,240. Former contract rescinded. Noted July 21.

Mich., Flint—CHURCH and PARISH HOUSE—First Presbyterian Church, 1 story and basement, 65 x 120 ft., rein.-con., brick, steel and stone, plain foundation, Saginaw St., to Spence Bros., 12 Brewer Blk. Archts. est. $250,000.

Mich., Lincoln Park (mail Detroit) — SCHOOL — St. Henrys Roman Catholic Church, 2 story and basement, 69 x 180 ft., rein.-con., brick and steel, plain foundation, Council Ave., to C. L. Decoster, 2468 Tuxedo St., Detroit. Archts. est. $150,000. Noted Oct. 13.

Ill., Waukegan — NURSES HOME and HOSPITAL—H. J. Gaul, archt., 232 East Superior St., Chicago, general contract 6 story, 150 x 150 ft., steel, brick and hollow tile, Keller Ave., here, to H. Schmidt & Son, 14-16 Burleigh St., Milwaukee, Wis., for Missionary Sisters of the Holy Ghost, Techny. Archts. total est. $1,000,000.

Canada — SCHOOLS — Dept. Indian Affairs, Ottawa, Ont., school at Lytton, B. C., to Adkison & Dill, 319 West Pender St., Vancouver, B. C., $139,000; school at Onion Lake, Sask., to Brown & Hudson, Winnipeg, Man., $79,891; school at Kamsack, Sask., to Wyndel, Ltd., St. Boniface, Man., $50,630; and school at Caughnawaga, Que., to McKenrie & Genest, Ottawa, Ont., $44,847. Grand total $314,368.

Que., Montreal—CONVENT—Sisters of Sacred Heart, 5 story, 75 x 150 ft., 75 x 175 ft., and 75 x 200 ft. concrete and limestone wings, Atwater Ave., to J. Quinlan Ltd., 1165 Greene Ave., Westmount, $500,000.

Federal Government Work

Proposed Work

N. Y., Brooklyn—Chimney Extension—Spec. 5425—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans extension to chimney at Naval Medical Supply Depot, here. L. E. Gregory, ch. of bureau.

N. J., Lakehurst—Mooring Mast—Spec. 5510—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans structural steel mobile mooring mast, at Naval Air Station, here. L. E. Gregory, ch. of bureau.

La., New Orleans—Revetment—U. S. Engineer Office, plans wooden revetment for protection of levees in Barataria and Lake Borgne Levee Dist.

Tex., Legion—Roads—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., rejected bids Oct. 4, resurfacing roads at U. S. Veterans Hospital, here. Noted Oct. 20.

Calif., San Diego—Distributing Systems—Spec. 5497—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans distributing systems, at Naval Operating Base (Hospital), here. L. E. Gregory, ch. of bureau.

Bids Desired

Mass., Camp Devens—Barracks—Nov. 22 (extended date), by Constructing Quartermaster, 1 infantry battalion and 1 infantry regimental barracks; adv. E. N.-R. Nov. 10. Noted Oct. 20.

N. Y., Fort Wadsworth (mail Staten Island)—Barracks—Nov. 15, at office Constructing Quartermaster, 39 Whitehall St., New York City, constructing Battalion barrack building, here. Noted Oct. 20.

W. Va., Williamson — Post Office and Courthouse—Dec. 8, by Treas. Dept., at office Supervising Archt., Wash., D. C., constructing U. S. Post Office and Courthouse, here. J. A. Wetmore, acting superv. archt.

Ky., Louisville—Beartrap Leaves—Nov. 23, by U. S. Engineers Office, P. O. Box 72, fabricating and erecting beartrap leaves for Dam 53, Ohio River, here; adv. E. N.-R. Nov. 10.

Montana-North Dakota—Earthwork, etc. —Dec. 14, at office Bureau Reclamation, Savage, Mont., E. Mead., comr., construct-

Federal Government Work (Continued)

ing earthwork and structures for open drains on Lower Yellowstone Project, here; adv. E. N.-R. Nov. 10.

South Dakota—Earthwork, etc.—Dec. 20, at office Bureau Reclamation, Newell, E. Mead, comr., constructing earthwork and structures for open drains on Belle Fourche Project, here; adv. E. N.-R. Nov. 10.

Wash., Ellensburg — Earthwork, etc. — Dec. 6, at office Bureau Reclamation, E. Mead, comr., constructing earthwork, canal lining, tunnels, siphons, etc. in Div. 1, North Branch Canal Kittitas Div., Yakima Project, near here; adv. E. N.-R. Nov. 10.

Bids Received

N. Y., New York—Mootr Generator Sets —Spec. 5486 — Bureau Yards & Docks, Navy Dept., Wash., D. C., motor generator sets at Navy Yard, here, from Allis-Chalmers Mfg. Co., West Allis St., Milwaukee, Wis., $42,912. Noted Oct. 20.

N. J., Lakehurst—Bearings—Spec. 5525 —Bureau Yards & Docks, Navy Dept., Wash., D. C., replacing bearings on hangar doors, at Naval Air Station, here, from Bethlehem Steel Co., Bethlehem, Pa. $20,700.

Tenn., Memphis—Refrigerating Plant—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Oct. 25, refrigerating plant at U. S. Veterans Hospital, here, from Frick Co., Waynesboro, Pa., $5,400. Noted Oct. 13.

Mich., Lansing — Mess Halls and Kitchens—U. S. Property & Disbursing Officer, Oct. 21, mess halls and kitchens, at Camp Grayling, from G. Lather & Sons, Traverse City, $16,975.

Tex., El Paso—Mezzanine—Treas. Dept., at office Supervising Archt., Wash., D. C., Oct. 24, mezzanine floor in U. S. Post office, here, from R. Gilchrist, 610 Mill St., $4,605. Noted Oct. 13.

Wash., Puget Sound—Motor Generator Sets—Spec. 5447—Bureau Yards & Docks, Navy Dept., Wash., D. C., Nov. 2, motor generator sets at Navy Yard, here, from General Electric Co., River Rd., Schenectady, N. Y., (1) $64,186 (2) $53,258 and (3) $942. Noted Oct. 27.

Contracts Awarded

N. Y., Iona Island—Wharf—Spec. 5507—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairing wharf at Naval Ammunition Depot, here, to W. Parrott's Son, 10 Henry Ave., Newburgh, $6,150. Noted Nov. 3.

N. Y., New York—Piping—Treas. Dept., at office Supervising Archt., Wash., D. C., brass water supply system at U. S. Custom House, here, to J. L. Powers, Bennettsville, S. C., $30,418. Noted Oct. 6.

N. Y., Yonkers—Elevator—Treas. Dept., at office Supervising Archt., Wash., D. C., elevator in U. S. Post Office, here, to Otis Elevator Co., 11th Ave. and 26th St., New York City, $3,177. Noted Oct. 13.

N. J., Dover—Standpipe—Spec. 5516—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairing steel standpipe and piping at Naval Ammunition Depot, Lake Denmark, here, to Dover Boiler Wks., Dover, $6,362. Noted Oct. 20.

La., New Orleans—Earthwork—U. S. Engineer Office, earthwork in Point Houmas Levee, to Lafourche Basin Levee Bd., Donaldsville, $17,600; in Winchester Levee, to McWilliams Dredging Co., Carondelet Bldg., $27,260; in Brookstown Levee, will be done by hired labor.

Ind., Evansville—Repairs—Treas. Dept., at office Supervising Archt., Wash., D. C., repairing U. S. Post Office here, to Universal Constr. Co., 228 Medical Arts Bldg., Fort Wayne, $4,220.

Minn., Minneapolis—Lobby Screens—Treas. Dept., at office Supervising Archt., Wash., D. C., lobby screens, U. S. Post Office, here, to Maharg Co., 1100 Andrus Bldg., $3,946.

Mo., St. Louis—Mezzanine—Treas. Dept. at office Supervising Archt., Wash., D .C., new mezzanine floor, in U. S. Post Office, here, to E. G. Lay, Inc., St. Louis, $4,898. Noted Nov. 3.

Wash., Port Orchard—Dredging—U. S. Engineer Office, Seattle, dredging entrance Port Orchard Bay, here, to Puget Sound Bridge & Dredging Co., 1 Central Bldg., Seattle $26,925.

Calif., Oakland—Dredging—U. S. Engineer Office, San Francisco, dredging in Oakland Harbor, here, to Amer. Dredging Co. 255 California St., San Francisco, $87,848. Noted Nov. 3.

Calif., Pasadena—Remodeling — Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here, to A. D. Paschall, 1661 Forest Ave., $18,340. Noted Sept. 29.

Unclassified

Proposed Work

Stadium—Biddeford, Me.—City, J. A. Morin, City Hall, plans probably concrete and timber stadium. $25,000 or more. Engineer not selected.

Wire, Cable, etc.—New York, N. Y.—Amer. Telephone & Telegraph Co., 195 Bway., plans building and construction program for next 5 years, aerial wire, incl. poles and lines, $3,750,000; long distance cables with associated lines, building and equipment $20,250,000; switchboard equipment and telegraph apparatus, $9,850,000; also line work and pole replacements, $5,265,000. Total approximately $40,000,000.

Beach Pavilions—Asbury Park, N. J.—City making plans 3 beach pavilions. $500,000. Warren & Wetmore, 16 East 47th St., New York City, archts. E. Arend, Asbury Park, associated archt.

Stadium—Mahwah, N. J.—Northern Bergen County Sportsmen, J. Warhol, plans concrete and steel stadium. $25,000. Engineer not selected.

Playground—Paterson, N. J.—Bd. Recreation, City Hall, plans playground. $75,000. Engineer not selected.

Stadium—Paterson, N. J.—Bd. Recreation, G. L. Walsh, pres., 853 East 22nd St., plans concrete and steel stadium. $25,000. Engineer not selected.

Overhead Crossing—New Orleans, La.—Tood Eng. Dry Dock & Repair Co., Inc., 200 Howard Ave., plans overhead crossing over Patterson St., at Hines Lane.

Air Port—Bridgeton, Mo.—City of St. Louis, c/o A. B. Lambert, 457 North Kingshighway Blvd., St. Louis, making preliminary plans 2,600 x 3,800 x 4,000 ft. airport, incl. 3 cinder runways, administration and air service buildings, gasoline and oil supply, meteorological and air traffic control and first aid stations, machine shops, power plant, Bridgeton Station and Natural Bridge Rds., and Wabash R.R. tracks, here. $800,000. Election in November, 1928, $1,200,000 bonds, for above.

Gas Mains — Texas — Marris Finance Corp., c/o W. H. Clark, 829 West Agarita St., San Antonio, making preliminary surveys, etc., 6 and 8 in. gas pipe line between oil fields near Hondo to city limits of Pearsall, $35,000; and distributing system in Pearsall, $50,000. Private Plans.

Transmission Line—Marble Falls, Tex.—Texas Pink Granite Co., Marble Falls, plans transmission line from here to granite plant. $35,000. Private plans.

Natural Gas System—Lexington, Okla.—Community Gas Co., Ardmore, plans natural gas system, here. $25,000. Private plans.

Natural Gas System—Marietta, Okla.—Community Gas Co., Ardmore, plans natural gas system, here. $40,000. Private plans.

Natural Gas System — Wayne, Okla. — Community Gas Co., Ardmore, plans natural gas system, here. $25,000. Private plans.

Bids Desired

Tunnel — Cambridge (Boston P. O.), **Mass.** — Lever Bros., 164 Bway., taking bids concrete tunnel under Harvard St. $25,000. C. T. Main, Inc., 201 Devonshire St., Boston, engrs.

Mechanical Equipment—Brooklyn, N. Y. —Nov. 29, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., mechanical equipment, incl. heating, ventilating, plumbing, etc. in P. S. 204, 15th Ave. between 81st and 82nd Sts., and P. S. 121, 20th Ave. from 53rd to 54th Sts., for Bd. Educ., 500 Park Ave., New York City.

Fire Prevention—New York, N. Y.—Nov. 16, by Trustees Bellevue & Allied Hospitals, J. J. McGrath, pres., 415 East 26th St., altering and additions for fire prevention to Pavilions "A" and "B," new elevator shaft, and elevator, in Bellevue Hospital, East 26th St. and East River.

Park Improvements—New York, N. Y.—Nov. 15, by Park Bd., W. R. Herrick, pres. Park Dept., Arsenal Bldg., Central Park, improving park land between Jerome and River Aves. between 165th and 167th Sts., Bronx Boro.

Playground—New York, N. Y.—Nov. 17, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, excavating, paving, fencing, drains, etc. for playground, Kelly St. between Leggett Ave. and Avenue St. John, Bronx Boro., for Bd. Educ., 500 Park Ave.

Pier—Baltimore, Md.—Nov. 23, by J. E. Greiner Co., engrs., Lexington Bldg., substructure 216 x 873 ft. pier, 77,000 lin.ft. 60 to 70 ft., 364,000 lin.ft. 70 to 80 ft., and 459 lin.ft. 80 ft. bearing piles, 110,000 lb. guard rail shoes and crane rail supports, McComas St., for Port Development Co., J. H. Preston, chn., Munsey Bldg. Western Maryland Ry. Co., 906 Hillen Sta., lessee. Noted May 5.

Telephone Extension—St. Louis, Mo.—See "Contracts Awarded."

Wharf and Freight Shed—Charlottetown, P. E. I.—Nov. 22, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., extending wharf, and constructing freight shed here, for Canadian Natl. Ry., 230 St. James St., Montreal, Que., C. S. Gzowski, ch. engr. (Constr.) $150,000. K. M. Cameron, Dept. Pub. Wks., Ottawa, Ont., engr.

Contracts Awarded

Culverts—New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, 4 rein.-con. culverts along line Conduit Blvd., Queens Co., to T. J. Graham, 8621 86th St., Woodhaven, $38,113. Noted Oct. 27.

Plumbing, etc.—Flushing, N. Y.—T. W. Lamb, archt., 644 8th Ave., New York City, plumbing and drainage in theatre, Northern Blvd. and Farrington St., here, to Weber & Hamilton, 56 Hallet St., Astoria, for B. F. Keith Theatres, 1564 Bway., New York City. Noted Oct. 6.

Lighting System—Chicago, Ill.—Trustees Sanitary Dist., ornamental lighting system on McCormick Rd. from Devon to Railroad Aves., incl. 800 lights, curbing, guttering, widening all cross streets intersecting above road, etc., to U. S. A. Company, 854 Rush St., $727,000.

Telephone Extension—St. Louis, Mo.—Southwestern Bell Telephone Co., 11th and Pine Sts., will construct 3.5 mi. underground cable between Laclede-Prospect Exchange, 2713 South Grand Blvd. and Winnebago St. and Bway. via Grand, Arsenal, California and Winnebago Sts., by own forces. $37,000. Private plans.

Gas System—Covington, Okla.—For 22,000 ft. 6 in. natural gas mains, to E. W. Baker & Co., Perrine Bldg., Oklahoma City, $31,399. Engrs. est. $35,000. Noted Dec. 2.

Cribwork — Grindstone Island, Que. — Dept. Pub. Wks., Ottawa, Ont., protection cribwork, here, to Ludger Lemieux, Ltd., Ste. Marie Beauce, $33,917.

Materials

Bids Desired

Frogs, Crossings, etc.—Phila., Pa.—Nov. 16, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., at 15 North 32nd St., frogs, crossings, knuckle rails, movable points, switches, etc., Contr. 124-1927.

Sand and Gravel—Michigan—Nov. 18, by C. D. Betts, buyer for State Hy. Dept., Lansing, approximately 60,000 cu.yd. sand and 100,000 cu.yd. gravel, Stocking Aggregate on T. L. 21, Kent, Ionia, Clinton and Shiawassee Counties. H. C. Fleming, Grand Rapids, resident engr.

Aggregate—Iowa—Nov. 15, at office State Hy. Comn., Ames, 51,000 tons coarse aggregate f.o.b. cars Monticello, Langworthy and Anamosa for concrete paving Federal Aid Project 86, Jones Co. R. F. White, ch. highway engr.

Cedar Poles and Meters—Allen, Okla.—Allen Electric Co., J. E. Fitzhugh, supt., in market 1 car load 35 ft. cedar poles and two hundred 15 ampere electric meters.

Bids Received

Asphalt Oil—Trenton, N. J.—State Hy. Comn., 26,550 gal. asphaltic oil, from Warner-Quinlan Co., 27 Beaver St., New York City, at $0.1513 and $0.1648 per gal.

Pipe—Los Angeles, Calif.—City Water & Power Comn., 60,000 ft. 6 in. welded steel bell and spigot pipe, from Grinnell Co., 520 Mateo St., at $55.85 per 100 ft.

Cement—Merced, Calif.—H. P. Sargent, secy. Merced Irrigation Dist., Oct. 25, 4,000 bbl. cement, from Yosemite Portland Cement Co., Merced, H. Cowell Lime & Cement Co., 2 Market St., San Francisco, Pacific Portland Cement Co., Pacific Bldg., San Francisco, Santa Cruz Portland Cement Co., Crocker Bldg., San Francisco, and Calaveras Cement Co., 315 Montgomery St., San Francisco, all at $3.05 per bbl. cloth sacks, and $2.85 paper sacks.

See proposal advertising on page 167

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Road—New York

Bids were opened by State Highway Department, Albany, Oct. 7, (lowest three and highest) for constructing highway No. 9109, Normanskill Viaduct, 0.86 mi., Albany Co., from (A) Engineer's Estimate; (B) James J. Finn & Son, Albany; (C) I. B. Stephenson, Albany; (D) Pater Hamre, Glens Falls; (E) Matthy's & Co., Inc., Binghampton. The unit bids are as follows:

	A	B	C	D	E
Clearing and grubbing (lump sum)	$100.00	$100.00	$100.00	$100.00	$100.00
24,110 cu.yd. unclass. excav	1.30	1.18	.75	.75	1.20
9 gutter basins	65.00	35.00	60.00	50.00	55.00
4 special receiving basins	125.00	70.00	125.00	100.00	110.00
400 lin.ft. 30 in. reinf. conc. pipe	4.90	4.33	4.50	4.00	4.25
11,730 bbl. portland cement	3.10	2.80	2.60	2.50	3.00
1,270 cu.yd. conc. 1-2-3½ in superstructure	22.00	15.00	20.00	19.50	21.50
900 cu.yd. conc. 1-2-3½ in substructure	20.00	17.08	18.00	18.50	21.00
45 cu.yd. first class conc. 1-2-4	18.00	12.00	18.00	16.00	17.00
1,300 cu.yd. second class conc. 1-2-5½	15.00	14.00	14.00	11.50	15.50
2,930 lin.ft. granite curbing	2.30	2.09	2.20	1.90	2.20
160 lin.ft. circular granite curb	2.80	2.00	2.80	2.35	2.70
3,400 lin.ft. conc. curb, type A	1.00	.95	.90	.80	1.00
1,200 sq.yd. conc. gutters	2.15	1.92	2.00	1.65	2.15
3,220 sq.yd. steel fabric for pavement	.40	.32	.35	.30	.35
11,310 sq.yd. bar reinf. for pavement	.70	.51	.50	.60	.70
374,000 lb. bar reinf. for structures	.06	.042	.045	.05	.0575
1,675,000 lb. struc. steel	.055	.0465	.0475	.051	.049
8,300 lb. misc. iron and steel	.10	.10	.10	.08	.07
1,100 lin.ft. cable guide railing	2.00	.95	1.00	1.20	1.50
2,140 lin.ft. metal railing	6.00	5.90	6.00	6.00	5.90
14.050 sq.yd. preparing fine grade	.12	.12	.10	.10	.12
3,020 cu.yd. foundation course, R. B. gravel	2.90	1.90	1.90	2.00	2.00
2,515 cu.yd. cement conc. pavement 1-2-3½	10.70	7.85	8.50	8.00	9.00
365 cu.yd. cement conc. pavement 1-1½-3	10.70	7.85	9.00	8.00	9.00
4,560 sq ft. bit. mat. waterproof	.12	.03	.12	.10	.10
1,020 lin.ft. maintaining traffic	.50	.50	.50	.50	.50
1,610 lin.ft. cast in place conc. piles	5.50	5.15	5.50	5.50	5.50
Painter's scaffold (lump sum)	200.00	200.00	200.00	200.00	200.00
108 lin.ft. 12 in. c.i. pipe	2.65	2.28	2.65	2.00	2.50
168 lin.ft. 16 in. c.i. pipe	3.50	3.24	3.50	3.00	3.50
192 lin.ft. 18 in. c.i. pipe	4.00	3.73	4.00	3.20	4.20
48 lin.ft. 24 in. c.i. pipe	6.90	6.17	6.90	5.60	6.90
Totals	$343,254	$284,822	$286,320	$286,496	$319,979

Engineering News-Record, Issue of November 10, 1927.

Road—California

Bids were opened by U. S. Department of Agriculture, Bureau of Public Roads, District No. 2, San Francisco, July 12, (lowest three and highest) for constructing 11.85 mi. road, San Marcos Extension in Santa Barbara National Forest, Santa Barbara Co., from (A) Hollywood Granite Co., 1137 North Orange Grove Ave., Hollywood, (awarded contract); (B) C. W. Wimmer, Santa Barbara; (C) M. S. Ross, Los Angeles; (D) J. Welsh, Oakland. The unit bids are as follows:

	A	B	C	D
166,600 cu.yd. excav., unclassified	$0.43	$0.56	$0.59¼	$0.84
1,550 cu.yd. excav., unclassified for structures	1.50	1.25	1.50	1.50
38,500 sta.yd. overhaul	02	.02	.02	.03
800 cu.yd. class A conc	30.00	28.00	24.50	28.00
70 cu.yd. class B conc	28.20	28.00	25.00	25.00
99 cu.yd. class D conc	31.32½	30.00	25.00	40.00
93,500 lb. reinf. steel	.06	.07	.06	.07
2,000 lin.ft. 18 in. C.M.P. haul and place	.40	.75	.90	1.50
430 lin.ft. 24 in. C.M.P. haul and place	.50	1.00	1.35	2.00
760 lin.ft. 30 in. C.M.P. haul and place	.60	1.25	1.50	3.00
465 lin.ft. wooden guard rail	1.50	3.00	1.00	.90
970 cu.yd. boulders in protec.work	5.00	1.50	4.00	7.50
350 sq. wire fencing in protec.work	5.50	3.50	3.95	3.00
Totals	$118,361	$136,833	$146,488	$192,962

Engineering News-Record, Issue of November 10, 1927.

Bridge—Washington

Bids were opened by State Highway Committee, Olympia, Oct. 4, (lowest three and highest) for constructing bridge over Teanaway River on State Road No. 2 between Cle Elum and Virden, Kittitas Co., 270 ft. long, one 180 ft. riveted steel through truss span and three 30 ft. reinf. conc. tee beam approach spans, 20 ft. roadway, from (A) R. A. Geary, 22 Sloan Bldg., Yakima, (awarded contract); (B) Illinois Steel Bridge Co., 321 Huttor. Bldg., Spokane; (C) MacRae Bros., 1109 American Bank Bldg., Seattle; (D) Daniels Consrtuction Co., Seattle. The unit bids are as follows:

	A	B	C	D
400 cu.yd. structure excav	$6.00	$8.00	$6.75	$8.00
3,000 cu.yd. river excav. to be placed in embank	1.00	.80	1.50	.90
200 cu.yd. conc. class "A" in place	28.00	30.00	28.00	29.75
83 cu.yd. conc. class "B" in place	26.00	23.00	25.00	28.70
114 cu.yd. conc. clase "E" in place	22.00	25.00	25.00	29.00
40,000 lb. steel reinf. bars in place	.06	.05	.06	.05
226,000 lb. structural steel in place	.07¼	.07¼	.0669	.07½
160 lb. bronze expans. plates in place	.80	.75	.58	.55
Totals	$34,579	$35,030	$35,337	$36,576

Engineering News-Record, Issue of November 10, 1927.

On a painting job estimated to cost $3,400, in connection with the Alliance, Ohio, sewerage works, the average of thirteen bids was $1,725 or 51 per cent for materials, $1,673 or 49 per cent for labor, with wide ranges in the bidding.

Constr. News page 246

UNIT PRICES *Continued on page* 246a

ALL INDUSTRY Profits by Hercules Power

Hercules matchless ability to do a power job better and cheaper enables every Hercules user to set new standards of profit. This ability results directly from Hercules strength and simplicity.

Forty-three per cent *additional* output was secured with Hercules Power in a sawmill.

Work was kept eight months ahead of contract time with Hercules Power in grading equipment.

Hercules loaded five shovelfuls instead of four in excavating. Thus Hercules Power sets new records of endurance throughout American industry.

The simplicity of Hercules design, the consistent precision of Hercules production, and the Hercules factor of strength throughout underlie the successful operation of more than 75,000 Hercules Engines and Power Units. Hercules personal engineering service and the complete Hercules line of fours and sixes assures your getting the right engine in the right place.

HERCULES MOTORS CORPORATION
Canton, Ohio

Hercules
ENGINES

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Jetty—Newport Beach, Calif.

Bids were opened by City Trustees, Apr. 25, for improvements to east and west jetties, from (A) Hauser Construction Co., Security Bldg., Long Beach, (awarded contract west jetty, rubble mound type) $354,000; (B) Butte Construction Co.; (C) Keeler & Gist; (D) Engineering-Construction Co.; (E) L. R. Weber, Balboa, (awarded contract east jetty, using rein. conc. interlocking piling) $93,000. The unit bids are as follows:

	A	B	C	D
PROPOSAL 1—Repair present west jetty and construct revetments:				
42,000 ton stone in place	$2.49	$2.51	$3.14	$2.60
PROPOSAL 2—Repair present west jetty and construct revetments:				
61,000 ton stone in place	2.07	2.25	2.38	2.40
PROPOSAL 3—Repair present east jetty and construct revetments:				
85,000 ton stone in place	1.90	2.04	1.98	2.30
PROPOSAL 4—Repair present west jetty and construct revetments including extension of west jetty of rubble mound construction:				
61,000 ton stone repair west jetty	1.70	2.25	1.88	2.30
63,000 ton stone extend west jetty	1.70	1.45	1.88	2.30
PROPOSAL 4-A—Repair west jetty and construct revetments, including extension of west jetty of rubble mound construction:				
85,000 ton stone repair west jetty	1.70	2.25	1.88	2.30
63,000 ton stone extend west jetty	1.70	1.45	1.88	2.30
PROPOSAL 5—Repair present west jetty and construct revetments, including the extension to present west jetty of rubble mound construction and the east jetty of rubble mound construction				
81,000 ton stone repair west jetty	1.60	2.25	1.85	2.30
63,000 ton stone extend west jetty	1.60	1.45	1.85	2.30
40,000 ton stone east jetty construction	1.60	2.04	2.34	2.50
PROPOSAL 5-A—Repair present west jetty and construct revetments, including extension to present west jetty of rubble mound construction and east jetty of rubble mound construction:				
85,000 ton stone repair west jetty	1.60	2.25	1.85	2.30
63,000 ton stone extend west jetty	1.60	1.45	1.85	2.30
40,000 ton stone east jetty construction	1.60	2.04	2.34	2.50

PROPOSAL 6—Construct east jetty consisting of two rows of reinf. conc. interlocking sheet piling, reinf. conc. deck and parapet, including riprap:

	A	B	C	D	E
200 ft. 20-ft. sheet piling	$89.00	$103.00	$90.00	$106.50	$160.00
200 ft. 22-ft. sheet piling	96.40	107.00	100.00	116.50	164.00
200 ft. 26-ft. sheet piling	109.80	115.00	115.00	137.80	172.00
200 ft. 30-ft. sheet piling	123.60	123.00	130.00	159.30	180.00
200 ft. 34-ft. sheet piling	138.00	131.00	140.00	180.20	188.00
2,500 ton stone for riprap	3.30	1.80	2.50	2.25	2.50

Engineering News-Record, Issue of November 10, 1927.

Water System—Memphis, Tenn.

Bids were opened by City Commissioners, Sept. 21, (lowest four and highest) for improving water system, Contr. No. 5, distribution system, from (A) W. H. O'Toole Construction Co., Alexandria, (awarded contract); (B) Dellone Construction Co., Dallas; (C) McEachin & McEachin, Little Rock, Ark.; (D) Merkle Contracting Co., Kansas City, Mo.; (E) Federal Construction Co., Birmingham, Ala. The unit bids are as follows:

	A	B	C	D	E
18,120 lin.ft. **hauling and laying** 20-in. B. & S. C. I. pipe, using lead joints	$0.80	$0.95	$1.00	$1.10	$1.52
using leadite joints	.67	.90	.94	1.00	1.34
3,000 lin.ft. 16-in. using lead joints	.71	.70	.75	.87	1.32
using leadite joints	.61	.67	.70	.80	1.17
24,312 lin.ft. 14-in. using lead joints	.62	.58	.60	.70	1.42
using leadite joints	.55	.54	.56	.65	1.32
5,364 lin.ft. 12-in. using lead joints	.51	.48	.50	.60	.92
using leadite joints	.45	.43	.46	.55	.82
156 lin.ft. 10 in. using lead joints	.51	.40	.45	.53	.97
using leadite joints	.45	.36	.42	.50	.88
2,184 lin.ft. 8-in. using lead joints	.39	.35	.40	.43	.87
using leadite joints	.34	.32	.38	.41	.80
6-in. using lead joints	.33	.30	.35	.37	1.02
1,332 lin.ft. using leadite joints	.29	.28	.35	.35	.96
25 wet connections	15.00	15.00	30.00	30.00	25.00
63 hauling and setting 6-in. hub end gate valves and boxes	3.00	2.50	7.00	3.00	5.50
12 8-in.	3.50	2.75	8.00	4.00	6.00
5 10-in.	4.00	3.25	9.00	5.00	7.00
6 12-in.	4.50	4.00	10.00	6.00	9.00
16 14-in.	4.50	5.00	12.00	7.00	11.00
5 16-in. hub end gear operated gate valves and boxes	5.00	6.25	15.00	8.00	13.00
7 20-in. hub end gear operated gate valves and boxes	5.00	9.50	18.00	10.00	16.00
7 fire hydrants with secondary valve	10.00	6.00	20.00	20.00	10.00
1,500 lin.ft. for cutting and replacing pavement	1.50	1.20	3.00	1.80	2.00
6,000 sq.ft. replacing sidewalk	.16	.20	.25	.35	.25
Time of Completion	Apr. 1, 1928	180 working days	May 1, 1928	June 30, 1928	Apr. 1, 1928
Totals using lead joints	$39,891	$41,042	$46,974	$49,400	$80,425
Totals using leadite joints	35,041	38,707	44,502	46,000	73,400

Engineering News-Record, Issue of November 10, 1927.

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Oil pipe line, Pecos, Texas, United Producers Pipe Line Co. plan, $12,500,000.

Telephone facilities, Missouri, Southwestern Bell Telephone Co. plans improvements, $8,000,000.

Waterworks, Waco, Texas, Water Bd. making plans, $3,500,000.

Office building, Newark, N. J., Branford Building Co. having plans prepared, $3,000,000.

Theatre, San Antonio, Tex., Interstate Amusement Co. having plans prepared, $2,500,000.

Office and store, Chicago, Ill., J. L. Simpson having plans prepared, $2,500,000.

High School, New York, N. Y., Bd. Educ. had plans prepared, $2,050,000.

Hotel, Omaha, Neb., Kitchen Hotel Co. having plans prepared, $2,000,000.

High Schools, Oklahoma City, Okla., Bd. Educ. having plans prepared, $2,000,000.

Boulevards, Tulsa, Okla., making preliminary plans, bond election soon, $2,000,000.

Apartments, Brooklyn, N. Y., Jonas Constr. Co. will build, $2,000,000.

Educational buildings, Knoxville, Tenn., State Bd. Educ. plans expending $2,000,000.

Hotel, New Orleans, La., Chicago Syndicate making plans, $2,000,000.

Distributing plant, Richmond, Calif., Petroleum Securities Co. plans, $2,000,000.

Trunk sewer, New Jersey, Towns of Audubon, Haddon Heights, Barrington, etc., plan, $1,600,000.

High School, Brighton, Mass., City of Boston having plans prepared, $1,539,000.

Apartment Hotel, Chicago, Ill., Elm Street Building Corp. having plans prepared, $1,500,000.

Bridge, New Jersey, State Hy. Comn. making plans, $1,500,000.

Hotel, Beaumont, Tex., E. G. Edson having plans prepared, $1,500,000.

Apartment, New York, N. Y., Thirty Three Riverside Drive, Inc., will build, $1,150,000.

Roads, Wheeler, Tex., bond election Dec. 3, $1,000,000.

Apartment, St. Louis, Mo., H. M. Edmunds will build, $1,000,000.

Factory, Cloquet, Minn., Northwestern Paper Co., plans, $1,000,000.

Bridge, Jefferson Co., Texas, Bond election Dec. 3 (tentative), $1,000,000.

Schools, Fairmont, W. Va., Bd. Educ. soon takes bids, $1,000,000.

Highway, Ontario, Dept. Provincial Highways, Toronto, making plans, $1,000,000.

Pumping station, Chicago, Ill., Bd. Pub. Wks. plans, $1,000,000.

Bids Received

Superstructure, Wash., D. C., Executive Officer, Arlington Memorial Bridge Comn., Nov. 7, from Hunkin-Conkey Constr. Co., Cleveland, O., $1,576,686.

Contracts Awarded

Dam, Abyssinia, Africa, Abyssinia Government, to J. G. White Engr. Corp., New York City. Engrs. est. $20,000,000.

Apartment hotel, Toronto, Ont., Ramsey, Stewart & Co. general contract to Yolles & Rotenberg, excavation to Lioni & Co. Archts. est. $2,000,000.

Apartment, New York, N. Y., Eton Holding Corp. to H. S. and S. O. Crystal. Archts. est. $1,300,000.

Out patient department and dormitory, New York, N. Y., Bd. Trustees, Bellevue and Allied Hospital, general contract to Kenny Bros., Inc., $1,239,000.

Studio, Burbank, Calif., Victory Studio, Inc., Hollywood, to J. H. Woodworth & Sons, Pasadena, $1,000,000.

Arena, Newark, N. J., Newark Garden Corp., New York City, to M. M. Waldron, Inc. Archts. est. $1,000,000.

Soap factory, Chicago, Ill., J. S. Kirk & Co. to Avery Brundage Co. Archts. est. $1,000,000.

News of the Week

Waterworks

Proposed Work

Miss., Ripley—Making preliminary plans complete waterworks and distribution mains, etc. $50,000. H. A. Mentz, Hammond, La., engr.

Mich., Ann Arbor—Making plans extending waterworks, incl. additional c.i. mains, enlarging rein.-con. reservoir, and additional wells. $500,000. Holland, Ackerman & Holland, Ann Arbor, consult. engrs.

Mich., Detroit—Plymouth Road Development Corp. making plans 12,914 ft. 6- to 12-in. c.i. mains in Grayton Subdivision, Redford Twp., Wayne Co. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., engrs.

Mich., Royal Oak (Ind. br. Detroit) — City, R. J. Whitney, mgr., made plans foundation for 1½ m.g. steel storage tank, incl. mass concrete for piers for tank, in connection with 48 in. water supply main connecting with Detroit water supply, Woodward Ave. and Ten Mile Rd. $15,000. Noted Oct. 27.

Ill., Chicago — Bd. Pub. Wks., R. W. Wolfe, comr., plans 160 m.g.p.d. pumping station to tap Wilson Ave. water tunnel, incl. four 40 m.g. capacity pumps, etc. $1,000,000. L. D. Gayton, City Hall, engr.

Mo., Marceline — Voted $75,000 bonds, improving waterworks. Black & Veatch, 700 Mutual Bldg., Kansas City, engrs.

Ark., DeWitt—Arkansas Power & Light Co., Pine Bluff, takes bids about Jan. 10, 42,000 ft. 2- to 12-in. mains, necessary fire plugs, valves and boxes, etc., in various streets. $60,000. Private plans.

Tex., Menard — City, R. M. Heyman, mayor, soon takes bids waterworks, incl. moving water plant to new site, raising standpipe, 1 additional purification plant, 2 settling basins and new mains in various streets. $30,000 bonds voted for same. Koch & Fowler, 801 Central Bank Bldg., Dallas, engrs.

Tex., Waco — Water Bd., c/o C. Shear, chn., making plans concrete, steel and earth dam across Bosque River for water supply and irrigation, etc. $3,500,000. Floyd & Lockridge, 519 Wilson Bldg., Dallas, consult. engrs. Noted Sept. 30.

Okla., Atwood—Made preliminary plans new waterworks. $15,000. C. Jones, mayor. Engineer not selected.

Okla., Guthrie—Plans improving waterworks. $50,000. G. W. Hawley, Oklahoma City, engr.

> *THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.*
>
> *Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.*

Okla., Henryetta — Making preliminary plans extending 15,500 ft. 4- to 8-in. c.i. mains in various streets. $20,000. C. L. Wilson, Weatherford, engr.

Okla., Mangum — Voted $75,000 bonds, extending waterworks. E. W. Gantt & Co., 1116 West Main St., Oklahoma City, engrs. Noted Oct. 13.

Okla., Tahlequah — Making plans new 500,000 g.p.m. mechanical filter plant, 2 motor driven centrifugal pumps, etc. $40,000. C. R. Morgan, Muskogee, engr. Noted June 9.

Bids Desired

N. Y., Long Island City—Nov. 22, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Nassau Blvd., 25th, 76th, 50th and 84th Aves., 46th, 35th, Cody, 73rd, 84th, 87th Sts., etc., here.

Md., Hagerstown — Nov. 22, by Mayor and City Council, at office Bd. Water Comrs., City Hall, 31,433 ft. 24 in. c.i. pipe line from Potomac River Filtration Plant to here, Contr. 5, Potomac River Project. W. P. Lane, pres. Bd. Water Comrs.

N. C., Dunn — Nov. 21, by City, G. L. Canady, mayor, 2 additional coagulating basin units, filter sand, laterals, manifold, piping and filter control equipment for two filter tubs in the existing plant, two motor-driven centrifugal pumps, etc. W. C. Olsen, Raleigh B. & L. Bldg., Raleigh, engr.

Ind., Porter — Nov. 22, by Bd. Town Trustee, Town Hall, complete waterworks, incl. mains, wells, pumps and power machinery for use and benefit all lots and public places lying within Dune Forest. G. W. Dabbert, town clk.

Ark., Camden—See "Contracts Awarded."

Okla., Hooker—Nov. 21, by E. J. Barr, city clk., drilling 2 deep wells, two deep well pumps and motors, etc. $17,000. Private plans.

Contracts Awarded

Mass., Marshfield—For 47,000 lin.ft. c.i. mains in various streets, also furnishing gate valves and hydrants, to Bruno & Petitti, 18 Tremont St., Boston, $32,000.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in 36th, 41st, 56th, Myrtle and Woodbine Aves., etc., to S. Gallucci & Sons, 33 Railroad Ave., Corona, $10,309. Noted Nov. 3.

N. Y., Wingdale—Dept. Mental Hygiene, Capitol, Albany, repairing filter plant at Harlem Valley Hospital, here, to Immick Co., State St., Meriden, Conn., $18,131. Noted Oct. 20.

Ind., Osgood — G. A. Triplett, secy. Waterworks System, 22,870 ft. 2- to 8-in. c.i. mains, 12,000 lb. c.i. specials, forty 4 in. hydrants, two 2 in., twelve 4 in. and seven 6 in. gate valves, one 75,000 gal. elevated tank, filter plant and low service pump, to G. L. Dunbar, 3710 Wyoming St., St. Louis, Mo., $65,134. Noted Oct. 27.

Michigan—D. W. Beauvais, clk., Ira Twp. Bd., Anchorville, pump house and installing equipment for new water supply, distributing water from intake in Lake St. Clair, to R. E. Townsend Corp., 415 1st Natl. Bank Bldg., Ann Arbor, $23,000. Noted Nov. 3.

Mich., Detroit—Dept. Water Supply, 1,800 tons 12 in. Class 150 DeLavaud pipes 12 ft. lengths, f.o.b. Detroit, to Natl. Cast Iron

See proposal advertising on page 124

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Eliminating Repairs and Maintenance Costs

TRENTON WATER WORKS, Trenton, N. J., has been using Leadite for making joints in c. i. bell and spigot water mains for a great many years with entire satisfaction.

They have laid nearly 75 miles of c. i. pipe of various sizes with Leadite joints.

Trenton has very good paved streets and they have never had to dig up a Leadite joint for repairs during all the time they have been using Leadite. They consider this excellent performance for Leadite joints.

They find the use of Leadite has reduced to a minimum repairs and maintenance costs.

Trenton Water Works has always found Leadite joints efficient and economical.

They keep a check on their distribution system by water waste surveys.

During the severe winter of 1917-18 Trenton Water Works had over 2000 frozen services. Many of these services were connected to mains laid with Leadite joints. They had no difficulty in thawing, with electrical apparatus, services connected with mains which were laid with Leadite joints.

Mr. Alvin Bugbee is Superintendent of the Trenton Water Works.

Specify and use LEADITE It saves at least 75%

Be sure it is LEADITE and accept no imitations

The pioneer self-caulking material for c. i. pipe. Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

Pipe Co., Tarrant City, Birmingham, Ala., at $1.2487 per ft.; and 1,800 tons 12 in. Class 150 Monocast pipe 16 ft. lengths, f.o.b. Detroit, to Amer. Cast Iron Pipe Co., Acipco St., Birmingham, Ala., $1.25 per ft.

Mich., Lochmoor — P. Allard, village clk., 12,000 lin.ft. 6 and 8 in. c.i. mains, valves, etc., to L. J. Clancy, 3137 Canton Ave., Detroit. Engrs. est. $30,000.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, water service pipes in portions Fullerton and South Keating Aves., to Tagliers Plumbing Co., 5304 Dakin St.; portions Hermosa Ave., South Green and South Wood Sts., to Washington Plumbing & Heating Co., 461 North Halsted St.; portions South Oakley Ave., to G. D. Hardin, 3139 Indiana Ave.; portions South Ridgeway, South Homan and South Trumbull Aves., to Walsh & Metzger, 6828 South Chicago Ave.

S. D., Huron—M. F. Walt, city aud., waterworks, to D. W. Moore & Thompson Constr. Co., St. Paul, Minn. $70,000. Engrs. est. $75,000. Noted Oct. 20.

Mo., Ironton—City Clerk, 29,025 4- to 8-in. Class "B" c.i. pipe, 100,000 gal. rein.-con. reservoir, etc., to F. Luth, 4135 Flora Ave., St. Louis, $40,441. Noted Oct. 27.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, rein.-con., steel, stone and brick coagulant house at Howards Bend Waterworks, St. Louis Co., to Murch Bros. Constr. Co., Railway Exch. Bldg., $249,778. Noted Sept. 29.

Ark., Camden—Arkansas Power & Light Co., Pine Bluff, will build 27,500 ft. 2- to 10-in. mains, and 450,000 gal. concrete reservoir, etc., here, by day labor. $60,000. Private plans. Noted Nov. 5.

Ont., Hamilton—Concrete and rein.-con. screen chambers at Beach Pumping Station, to W. L. McFaul, city engr., to be built by day labor. $18,500.

Sewers

Proposed Work

Conn., Thomaston—Making preliminary surveys sewage disposal plant. To exceed $25,000. Buck & Sheldon, 60 Prospect St., Hartford, engrs.

N. Y., Syracuse — Comn. Council plans sewers in Meadowbrook Dr. $55,000. N. F. Pitts, Jr., City Hall, engr.

New Jersey—Towns of Audubon, Haddon Heights, Barrington, Mount Ephraim and Oaklyn, plan trunk sewer to tidewater. $1,600,000. Engineer not selected.

N. J., New Brunswick—City Comn. maknig plans 8 in. trunk sewer from Central Ave. to Raritan River. $63,500. A. Atkinson, city engr.

Miss., McComb — Bd. Selectmen made plans extending sewerage system to north, east and west sections of city. $30,000. L. W. King, McComb, engr.

Tenn., Knoxville—Plans 6,000 ft. 24 and 30 in. concrete or vitr. clay trunk main from Tennessee River to Vestol Dist. $50,000. W. W. Mynatt, city engr. This corrects report in Oct. 13 issue.

Minn., New Ulm—W. P. Backer, city clk., making plans complete sewerage system. $400,000-$500,000. F. D. Minium, city engr. C. Foster, 512 Sellwood Bldg., Duluth, consult engr.

Minn., Perham — S. W. Lotterer, village clk., rejected bids Oct. 18, sanitary-storm sewerage system and disposal plant. $80,000. Will readvertise. Noted Sept. 22.

Mont., Chinook—Made plans sewerage system. $25,000. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., engrs. Noted Oct. 6.

Mont., Havre—Made plans sewers in various streets. $150,000. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., engrs. Noted Oct. 6.

Mo., Chillicothe—Making plans sewers in various streets. To exceed $25,000. C. A. Haskins, 822 Finance Bldg., Kansas City, engr.

Mo., Marshall—Made plans sewage disposal plant and intercepting sewers in various streets. $150,000. Burns & McDonnell, 402 Interstate Bldg., Kansas City, engrs. Noted Sept. 29.

Ark., De Witt—Soon takes bids sewers in Sewer Impvt. Dist. 1. $65,000.

Tex., San Antonio—Making plans 1 mi. probably 36 in. sewers in South Pine St. from Highland Blvd. to city limits. $75,000. I. Ewig, city engr.

Okla., Anadarko — E. Allen, city clk., rejected bids Nov. 7, 21,600 ft. 6- to 10-in. sewers in various streets. $38,000. Peckham & Riggins, 225½ West Grand St., Oklahoma City, engrs. Noted Nov. 3.

Okla, Cement — Voted $30,000 bonds, new sewerage system. C. Riggins, Anadarko, engr. Noted June 23.

Okla., Mangum — Voted $47,000 bonds, extending sewers in various streets and alleys. E. W. Gantt & Co., 1116 West Main St., Oklahoma City, engrs. Noted July 14.

Okla., Okemah—Made preliminary plans 3 mi. storm sewers in various streets. $35,000. A. C. McCord, Okemah, engr.

Okla., Seminole—Plans 16,100 ft. 8 and 10 in. lateral sewers in Dist. 5. $29,000. F. B. Reeves, Seminole, engr.

Calif., Chico—I. Morrison, city mgr., making surveys improving and extending sewers in various sections city. To exceed $25,000. R. Witt, city engr.

Calif., Long Beach—Made plans storm drain to serve area north of Anaheim, south to Willow and west to California Sts. $222,400. R. D. Van Alstine, city engr.

Ont., Toronto—York Twp. plans 10,000 ft. 4, 6 and 8 in. vitr. tile sewers in Roselawn Ave. and private drain connections in Bernice Crescent, Jane St., Silverthorn, Folwell and Eileen Aves., Halwood and Scott Rds. $25,000. F. B. Goedike, 40 Jarvis St., engr.

Ont., Toronto—York Twp. making plans 2,000 ft. 33 in. rein.-con. sewer from west end Humber Blvd. $50,000. F. B. Goedike, 40 Jarvis St., engr.

Mexico, Matamoras — City, c/o L. R. Rendon, making plans drainage system. $150,000. City Eng. Dept., engrs. Interested contractors should communicate with owner at once.

Bids Desired

Mass., Boston—Nov. 23, by Dept. Pub. Wks., J. H. Sullivan, comr., sewers in various streets in Roxbury, Hyde Park and Nov. 25 in Dorchester. $25,000.

N. Y., Brooklyn — Nov. 23, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewers in Kings Highway, Lenox Rd., Flatlands, Lefferts, Hegeman and Conklin Aves., East 94th, East 93rd, Bay 32nd, East 89th, 62nd Sts., etc.

N. Y., Long Island City — Nov. 23, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in 44th (Metz) 32nd (Myrtle), 17th and 18th Aves., 159th (19th), 164th (24th) and 165th Sts.

Md., Baltimore—Nov. 23, by Bd. Awards, sanitary sewers and storm drains in Dist. J-7, Sanitary Contr. 246. M. J. Ruark, 311 Courtland St., sewerage engr.

O., Columbus—Nov. 22, W. H. Duffy, dir. Service, 6,245 ft. 30- to 96-in. rein.-con., vitr., segmental block or monolithic concrete, and 416 ft. 12 and 15 in. vitr. sewers in Denune Ave., Weber Rd. and Bremen St. in Linden. $140,000. R. H. Simpson, City Hall, engr.

Tex., Houston — See "Contracts Awarded."

Calif., Santa Monica—City Clerk taking bids 2,009 ft. 27 in. double medium rein.-con. and 645 ft. 18 in. double strength vitr. sewer, etc., in Bay St. H. B. Carter, city engr.

Contracts Awarded

Mass., Boston—Dept. Pub. Wks., outfall sewer and pumping station, Porter St., East Boston, to C. & R. Constr. Co., 75 Bradeen St., Roslindale, $361,188. Noted Oct. 20.

N. Y., Freeport—Village Sewer Comrs., at office Village Clerk, West Merrick Rd., force main and completing main trunk sewers in various streets, to L. Jacques, 635 Bailey Ave., Elizabeth, N. J., $399,250. Noted Oct. 20.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers Fairbanks and Myers Aves., to J. Gallo, 169-10 State St., Flushing, $2,323 and $7,877 respectively; 111th Ave., to D. A. Gross, 8515 Fulton St., Woodhaven, $6,411; 218th St., to Kennedy & Smith, Bradford St., Flushing, $8,223; and 211th St., to P. J. Greenough, 9919 Guilford Ave., Forest Hills, $1,230. Grand total $26,064. Noted Nov. 3.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, temporary sewer in Marine Way to J. Johnson Sons, 455 Bway., West New Brighton, $18,525. Noted Nov. 3.

N. Y., West Haverstraw—Superintendent Standards & Purchase, Div. Standards & Purchase, Capitol, Albany, sewers and water service connections at New York State Orthopedic Hospital for Children, here, to Dykins & Seaton, Haverstraw, $12,950. Noted Sept. 29.

N. J., Margate—City Comrs., drain in Granville Ave. section, to Standard Eng. & Constr. Co., 4 South Weymouth St., Ventnor, $40,416.

Md., Baltimore — Bd. Awards, sanitary sewers and storm drains in Dists. 49, G-14, and P-4, Storm Water Contr. 109, for Mayor and City Council, to N. Martell, 4400 Vesta Ave., $55,151. Noted Oct. 27.

Md., Baltimore — Bd. Awards, storm drains in Dists. 50 and G-13, Storm Water Contr. 103, to F. Angelozzi, Park Heights Ave. and Seven Mile Lane, $46,102. Noted Oct. 13.

Ky., Georgetown — Town, 6.5 mi. tile sewers in various streets, to Carey-Reed Constr. Co., Lexington, approximately $52,000. Noted Aug. 25.

Ky., Louisville—J. B. F. Breed, engr., c/o Sewerage Comn., 1,323 ft. 54 x 57 in. rein.-con. sewers, etc. in Emerson St., to Hoag & Rollins, Louisville, $96,000. Engrs. est. $100,000. Noted Sept. 15.

Mich., Ithaca—Gratiot Co. approximately 2 mi. 27- to 36-in. concrete covered drain east of here, to C. Wilson, St. Louis, $32,400.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, tile sewers, brick manholes and catch basins in portions Avondale Ave., to F. A. Coda, 2710 South Wells St., portions Devon and North Neva Aves., to O. Scully, 7658 Laflin Ave., portions Kilbourn Ave. and West 101st St., to Alfonso Scully, 5467 Kamerling Ave., portions Kenneth and South Levergne Aves., to G. Barry, 5924 South Wabash Ave., portions South Lamon and South Laramie Aves., to J. Tiritilli, 732 South Ashland Ave., and portions South La Porte and South Leamington Aves., to D. Cuzzone, 922 South Mansfield Ave.; drains in Bloomingdale, North Spaulding, North Luna, North Lotus and North Linder Aves., to M. De Vito, portions Lovejoy Ave., to A. Santucci, 916 South Ashland Ave., portions Indiana and North Nordica Aves., to M. Murphy, 5854 South Michigan Ave., and portions Emerald and South Union Aves., to Angelo Scully, 4504 Wrightwood Ave. Noted Oct. 20.

Ill., Princeton—Sewage treatment plant and sewers in various streets, to Priester Constr. Co., Kahl Bldg., Davenport, Ia., $52,000. Engrs. est. $55,000. Noted July 14.

Mo., Springfield—City Clerk, 10,140 ft. 30 in. outfall sewer, 1,500 ft. 15 in. pressure line, 1,800 cu.yd. excav., etc., to W. B. Carter, Sioux City, Ia., $64,138; also complete disposal plant, two 50 ft. digestors, two 55 ft. digestors, dosing and grit chambers, etc., to Stigall Constr. Co., Benton and Talmadge Aves., $186,301, all in Southwest Outfall Sewer Dist. Engrs. est. $250,000. Noted Sept. 29.

Tex., Amarillo—City c/o J. D. Bartlett, mgr., 20 mi. 8- to 18-in. bent concrete sewer in Robert Pl., San Jacinto, County Club and Old Town additions, to T. L. Green, Oklahoma City, Okla., $125,566, and 20,000 ft. 21 in. outfall sewer in North Amarillo, to Dodson & Humphreys, Lincoln, Neb., $52,498. Noted Oct. 13.

Tex., Houston—City will lay sewer in Scott St., by force account. $40,000. J. C. McVea, Houston, engr.

Ont., New Toronto — Vitr. tile sewer in 11th St., to Simone Bros., 10 Coleridge St., Toronto, $4,700; and in 19th St., to Lowes Constr. Co., Mimico, $23,685. Engrs. est. $28,000.

Ont., Toronto—Armour Heights Estate, c/o Robins Ltd., Natl. Bldg., sewers in Armour Heights Subdivision, to W. E. Taylor, 22 Falcon St.; and rein.-con. sewage disposal plant. to M. de Jonckheere, 72 Ostend Ave., Swansea. Engrs. est. $50,000.

Waste Disposal

Proposed Work

N. J., Plainfield—Bd. City Council, 515 Watchung Ave., plans incinerator. $150,000. A. W. Vars, 515 Watchung Ave., engr.

Mich., Ferndale—Plans incinerator. $30,000. C. H. Peterson, city mgr.

Contracts Awarded

Pa., McKeesport—City, general contract 1 story, 80 x 130 ft., brick and steel incinerator, to Blair & Mack, McKeesport. Archts. est. $100,000.

Bridges

Proposed Work

Mass., Salem—Comrs. Essex Co., Court House, making plans rebuilding Kernwood bridge, steel, concrete and wood piles. $125,000-$150,000. R. Evans, Court House, co. engr.

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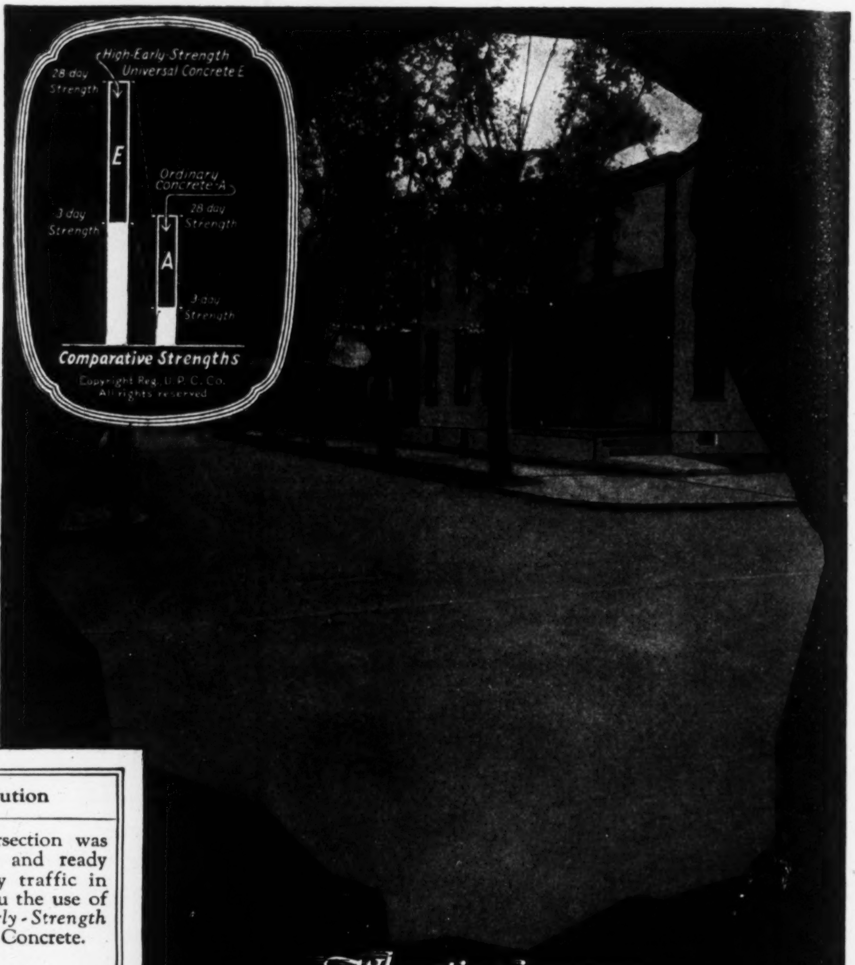

When time is money . . .

use High-Early-Strength concrete
made with standard (not special)
Universal Cement

Conditions	Solution
Church Street and New Street are both important thorofares in Champaign, Ill.—two good reasons for building and re-opening the intersection with minimum delay.	The intersection was concreted and ready for heavy traffic in *3 days* thru the use of *High-Early-Strength* Universal Concrete.
Orders to repave Zane and Madison Streets, Martins Ferry, Ohio, included instructions to re-open the intersection at earliest possible time.	The intersection, made with *High-Early-Strength* Universal Concrete, was placed on Sunday and opened to traffic Wednesday morning.
The grade was to be changed at three intersections in La Grange Park, Ill. Each day's delay in re-opening the streets meant inconvenience to hundreds of motorists and loss of business to merchants.	*High-Early-Strength* Universal Concrete was used. Intersections were placed on Tuesday and opened to traffic Saturday morning.

Illustration above shows intersection of Zane and Madison Streets, Martins Ferry, Ohio, placed with *High-Early-Strength* Universal Concrete. Consolidated Engineering Co., Wheeling, W. Va., contractor; Carl Lash, City Engineer. Standard Universal Cement furnished by Scott Lumber Co., Martins Ferry.

Ideal for Use in Intersections

If it is important to keep *streets* open to traffic, it is doubly important to keep *intersections* open. When an intersection is closed *two* streets are closed.

At the left are described typical instances of how *High-Early-Strength* Universal Concrete has helped to save weeks in re-opening busy intersections.

High-Early-Strength Universal Concrete has a *3-day* strength equal to the *28-day* strength of ordinary concrete. It is made by using fully tested methods and the usual labor, usual equipment, usual materials, and usual Universal cement. Such concrete not only develops a higher *early* strength, but also a higher *ultimate* strength, and is therefore *permanently* better and stronger concrete. (See diagram.) For full details, send in the accompanying coupon.

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

UNIVERSAL PORTLAND CEMENT CO.
210 South La Salle Street, Chicago

Without obligation, please send me detailed information on methods for securing strong concrete in 3 days with the usual materials and equipment.

Name ....

Address .... ENR 11-17-27

Bridges (Continued)

New Jersey—State Hy. Comn., Trenton, retained Harrington, Howard & Ash, engrs., 55 Liberty St., New York City and 1012 Baltimore St., Kansas City, Mo., to design bridge over Hackensack River, on Newark Turnpike. $1,500,000. W. G. Sloan, Trenton, highway engr.

N. J., Perth Amboy—City Comrs., City Hall, rejected bids bridge over Central R.R. tracks, on Fayette St. $100,000. Will re-advertise.

Tenn., Jackson—Madison Co. and State Dept. Hys. & Pub. Wks., Nashville, making surveys bridge, probably concrete and steel, over Forked Deer River, on State Road 5, near here. To exceed $25,000. C. N. Bass, Nashville, comr.

Tenn., Pulaski—State Dept. Highways & Pub. Wks., Nashville, takes bids about Dec. 5, concrete and steel bridge over Richland Creek, Giles Co., near here. To exceed $25,000.

Kan., Emporia—See "Streets and Roads."

Kan., Kinsley—See "Streets and Roads."

Kan., Westmoreland — Pottawatomie Co. making preliminary plans two 60 ft., two 100 ft. and seven 200 ft. truss span bridge with rein.-con. piers, etc. over Blue River, on Federal Aid Project 351-A. L. F. Whearty, Court House, engr.

Texas—Jefferson Co. (Beaumont), B. B. Johnson, judge, election Dec. 3 (tentative), $1,000,000 bonds, rein.-con., timber and steel bridge over Neches River. Noted Oct. 6.

Tex., Ft. Worth—Tarrant Co., c/o S. D. Shannon, judge, making plans 2 concrete bridges over Rush and Village Creeks, on Highway 1. $80,000. D. A. Davis, Ft. Forth, engr.

Tex., Galveston—Galveston Co. making preliminary plans creosoted pile or rein.-con. bridge, 20 ft., across East End. $100,000 (tentative). C. C. Washington, Galveston, co. engr.

Tex., Graham — Young Co., c/o W. F. Parsley, judge, Olney, soon takes new bids 60 ft., 80 ft., and 140 ft. steel span bridge over clear fork, Brazos River. $40,000. Former bids rejected. G. R. Johnson, Graham, engr.

Tex., New Braunfels — City, H. H. Trietsch, mayor, Comal Co., C. Roeper, judge, and Missouri, Kansas & Texas R.R. of Texas, F. Ringer, ch. engr., Dallas, making plans 350 ft. concrete bridge, incl. 80 ft. underpass over Comal Creek, on Highway 46. $87,000. G. G. Wickline, Austin, engr. Noted Aug. 4.

Okla., Allen — Allen Bridge Co. making preliminary plans 5 span 1,300 ft. steel truss bridge on piers over South Canadian River, near here. $300,000. Engineer not selected.

Okla., Calvin — State Hy. Dept., Oklahoma City, making preliminary plans 2 span 230 ft., steel truss bridge on piers, on Cedar St., Hughes Co., near here. $45,000. C. R. Mandigo, Capitol, engr.

Okla., Westville—State Hy. Comn., Oklahoma City, making preliminary plans 1 span, 106 ft. steel truss span bridge over St. Louis & San Francisco R.R. tracks, near here. $37,500. C. R. Mandigo, highway engr.

California—State Hy. Dept., Sacramento, rejected bids Oct. 24, 2 rein.-con. bridges over Prairie and Los Man Creeks, Humboldt Co. Noted Oct. 13.

Bids Desired

Mass., Templeton — Nov. 22, by Dept., Pub. Wks., Boston, 100 ft. steel I-beam bridge, here. W. F. Williams, comr.

N. J., Jersey City—Nov. 28, by State Hy. Comn., Trenton, constructing bridges and other structures of steel, masonry or rein.-con., on Sect. 4-A, known as Highway Route 1 (1927) between Larch and point near Charlotte Aves., Hudson Co., Contr. 9. A. L. Grover, secy.; adv. E. N.-R. Nov. 17.

Ind., Evansville—See "Unclassified."

Mich., Monroe—Taking bids five 278 ft. span rein.-con. bridge with 48 ft. roadway and two 10 ft. sidewalks over Raisin River, on Monroe St. $75,000.

Ia., Logan—Nov. 22, by Auditor Harrison Co., one 80 x 18 ft. pony truss bridge with two 32 x 16 ft. approaches, (alternate steel or wood pile); also one 70 x 16 ft. pony truss on wood pile and 2 steel pile piers. T. A. Cherry, Logan, co. engr.

Kan., Erie—Nov. 30, by L. R. Stanley, clk. Neosho Co., five 20 ft. slab span bridge, U. S. Rd. 73-W, Federal Aid Project 334-C, point 1.5 mi. from Chanute, 33,612 lb. reinforcing, etc. C. P. Donald, Court House, engr.

Kan., Oswego—See "Streets and Roads."

Neb., Newport—Dec. 1, by clerk Rock Co., Bassett, five 70 ft. span pony truss bridge with approach fills, 16 ft. roadway, etc., over Niobrara River north of here, for Keyapaha Co. (Springview) and Rock Co. (Basset). $30,000. R. L. Cochran, State House, Lincoln, engr.

South Dakota — Nov. 23, by State Hy. Comn., Pierre, **(F. A. P. means Federal Aid Project)**, constructing 40 ft. viaduct, etc., on F. A. P. 228A Potter Co., and 96 ft. viaduct, on F. A. P. 199B Codington Co.; also graveling approximately 9,000 cu. yd. F. A. P. 130, Custer Co. O. N. Hetle, Pierre, highway engr.

Arizona — Dec. 6, by State Hy. Comn., Phoenix, removing existing bridge and constructing steel bridge and approaches on Schedule 1, Holbrook-St. Johns Highway, Federal Aid Project 78-B, W. G. Lefebvre, state engr.

B. C., Savona — Nov. 28, by P. Philip, engr. Dept. Pub. Wks., Victoria, substructure bridge over Thompson River, here, for Provincial Govt., Victoria. Noted May 5.

Contracts Awarded

New York—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, 2 stone faced rein.-con. and 3 timber faced bridges on Saw Mill River Parkway, Hastings, Dobbs Ferry and Greenburg to J. S. Lowney & Co., Carlson Ave., King Park, $85,140. Noted Oct. 27.

N. Y., Mount Pleasant (mail Hawthorne) —Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, constructing substructure foundations and wing walls for bridge over New York Central R.R. tracks north of Mount Pleasant station, here to Immick Co., Inc., Girard Ave., Hartford, Conn., $59,675. Noted Oct. 27.

La., Oak Ridge—Police Jury Morehouse Parish, Bastrop, Beouf River Bridge, 323 ft. long, 5 mi. east of here, Norman Bridge, 200 ft. long, 4 mi. east of here, and Hamby Slough Bridge, 100 ft. long, 4 mi. east of here, all creosoted timber, to Amer. Creosote Wks., 1305 Dublin St., New Orleans. Noted Sept. 29.

Tenn., Lawrenceburg—Lawrence Co., concrete bridge over Shoal and Cowpen Creeks, to Southern Constr. Co., 615 South 11th St., Birmingham, Ala., $72,558.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, two 40 ft. span beam bridge on Sect. "D" Cincinnati-Brookville Rd., Butler Co., to J. Hill, Ada, $11,908; three 32 ft. span beam bridge over north fork Paint Creek, on Sect. "C" Columbus-Washington C. H. Rd., Fayette Co., to L. H. Nixon, Columbus, $20,306; removing present steel truss bridge and constructing 40 ft. beam span bridge on Sect. "I" Lima-Sandusky Rd., Sandusky Co., to A. Shekelhoff, Fremont, $6,521; also constructing slab top culvert and concrete bridges over Smith and Fall Creeks, Sect. "D" Middletown-Eaton Rd., Butler Co., to F. M. Hall, Dayton, $16,294. Grand total $55,029. Noted Oct. 20.

Kan., Ashland—See "Streets and Roads."

Kan., Independence — Montgomery Co., Bridge 1108, two 40 ft. and one 50 ft. girder spans over Onion Creek, on Project 25-A, to F. Luttjohann, 2053 Kansas Ave., Topeka, $11,734; and Bridge 707, five 50 ft. T girder spans, on Project 28, to Higgins Constr. Co., Independence, $20,933.

Kan., Sedan—Chatauqua Co., 3 bridges on Federal Aid Project 384, Sect. A, to A. F. Lewis, Wellsville, $15,536. Noted Sept. 8.

Kan., Wakeeney — See "Streets and Roads."

Neb., Lisco — Garden Co., c/o H. C. Fickles, Oshkosh, bridge and approach fills on Lisco State Aid Bridge over Platte River, to Western Bridge & Constr. Co., 748 Peters Trust Bldg., Omaha, $64,750.

Neb., Scotia — Greeley Co., c/o Clerk Scotia, four 75 ft. span pony truss span bridge, on Sta. 48 plus 50, Scotia-West Rd., to Diamond Eng. Co., Grand Island, $25,950.

Arkansas—State Hy. Comn., Little Rock, concrete bridge on Ashdown-Ben Lomond Rd., Sevier Co., to Richardson Ayers, Hope, $28,208; approximately 130 ft. concrete bridge, on Heber Springs Edgemont Rd., Highway 16, Sect. 11, Cleburn Co., to B. H. Heard, Little Rock, $10,149.

Washington—See "Streets and Roads."

California—State Hy. Dept., Sacramento, rein.-con. bridge over Pollards Gulch, Shasta Co., and 3 rein.-con. culverts east of Hayward, Alameda Co., to E. B. Skeels, Roseville, $53,336 and $42,577 respectively. Noted Oct. 13.

Calif., Los Angeles — Los Angeles Co. Flood Control, Dist., Big Dalton Dam and appurtenant structures, to H. W. Rohl, 806 Roosevelt Bldg., $381,194. Engrs. est. $400,000. Noted Nov. 17.

Dams

Contracts Awarded

Africa, Abyssinia — Abyssinia Government, Addis Ababa, irrigation dam in Lake Tsana, and constructing road from Addis Ababa to Lake Tsana, to J. G. White Eng. Corp., 43 Exchange Pl., New York City. Engrs. est. $20,000,000.

Railways

Proposed Work

Kansas and Colorado—Atchison, Topeka & Santa Fe R.R., M. C. Blanchard, ch. engr. (Western Lines), Amarillo, made plans relaying approximately 300 mi. steel rails, wood ties and ballasting tracks between Kansas state line, La Junta, Pueblo, Denver, Colo.

Contracts Awarded

Ontario—Canadian Govt., Ottawa, 154 mi. extension Hudson Bay Ry. from present end of steel mile 356 to Fort Churchill incl. clearing, grubbing, crosswaying, grading and culvert excavating approximately to Stewart & Cameron Ltd., Winnipeg, Man., unit cost basis.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Miss., Clarksdale — Zazoo-Mississippi Delta Levee Bd. soon takes bids complete pumping plant for drainage system at McKinley Lake. $46,000. W. L. Head, Clarksdals, ch. engr.

Mo., Princeton—Wayman & Muddy Creek D.D., c/o Clerk Mercer Co., making preliminary plans 3.5 mi. ditches; draining 3,234 acres in Wayman Dist. and 7.25 mi. ditches 2,200 acres in Muddy Creek Dist.

Calif., Sausalito — M. F. Seymour, secy. Tamaplais Union High School Dist., made specifications dredging 75,000 cu.yd. material from Richardsons Bay for soft fill in vicinity school grounds.

Bids Desired

Ky., Morgantown—Nov. 30, at office Bd. Drainage Comrs. Butler Co., 17 mi. ditch, incl. 200,000 cu.yd. excav., etc. E. C. Overstreet, Morgantown, ch. engr.

Ia., Atlantic—Nov. 25, by J. Ward, aud. Cass Co., ditch work in Nishna Botna D. D. 7, incl. 727,800 cu.yd. excav., etc., near here. G. F. Canon, Court House, engr. Noted Oct. 6.

Calif., Proberta—Nov. 30, by O. R. Smith, secy., El Camino Irrigation Dist., 22 mi. 8- to 14-in. concrete irrigation pipe, etc.; also drill and case 2 or more wells, approximately 90 ft. 16 in. and 220 ft. 12 in., etc. Contr. 7.

Contracts Awarded

New York—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, additional fill, etc. on Hutchinson River Parkway, near Weaver St. and Mamaroneck Ave., Scarsdale, White Plains and New Rochelle, to Smith Bros., Hartford, Conn., $37,620. Noted Oct. 27.

La., Tallulah — Fifth Louisiana Levee Dist., 25,000 cu.yd. levee work in St. Joseph Front, on right bank Mississippi River, Tensas Parish, to J. R. Jenkin, Natchez, Miss., at $0.80 per cu.yd.

Ind., Lafayette — County Clk. John L. Hoffman Ditch, 8 mi. cement tile, Tippecanoe Co., to S. P. Harriman, Lafayette, $33,898.

Ia., Onawa—Trustees Monona-Harrison D. D. 1, 12 mi. earth dikes each side Little Sioux River, incl. 153,000 cu.yd. excav., also earth spill dam in Equalizer ditch between Little Sioux and Monona-Harrison ditch, to Humphrey & Thompson, 526 Securities Bldg., Omaha, Neb., at $0.113 per cu.yd.

Calif., Merced—H. P. Sargent, secy. Merced Irrigation Dist., 30,000 cu.yd. excav. in Ward Canal, and 20,000 cu.yd. in Le Grand High Line Canal, to C. E. Murray,

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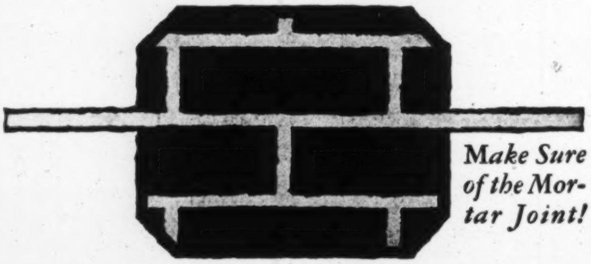

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Excavation, Drainage, Irrigation, Levees, River and Harbor (Continued)

Modesto, $0.16 and $0.17 per yd. respectively; also 12 drainage pumps and motors, etc., to Byron-Jackson Pump Mfg. Co., West Berkeley; also 147,000 cu.yd. canal excav., etc., on other schedules, will be done by district forces.

N. S., Grass Cove — Dominion Govt., Ottawa, Ont., constructing breakwater, here, to T. P. Charleson, 179 Gilmour St., Ottawa, Ont., $37,000.

Streets and Roads

Proposed Work

N. J., New Brunswick—Bd. Freeholders Middlesex Co. plans paving 0.5 mi. Lincoln Blvd., in Middlesex. $25,000. State Hy. Bd., Trenton, contributes $10,000 towards cost. W. C. Buchanan, Perth Amboy, engr.

N. J., Sea Isle City — Bd. Freeholders Cape May Co., (Cape May C. H.), plans 6 in. graveling 2 mi. road, 100 ft. $190,000. R. F. Smith, Marmora, engr.

Ga., Commerce — Voted $31,000 bonds, paving various streets.

La., Bastrop—Morehouse Parish making preliminary plans grading and graveling 35 mi. roads in Rd. Dist. 1. $300,000. L. White, Court House, engr.

La., Oakdale — Soon takes bids paving various streets. $200,000. H. A. Mentz, Hammond, engr.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 12 mi. Atwood-McKenzie Rd., Carroll Co.; and 20 mi. Paris-Tennessee River Rd., Henry Co. C. N. Bass, highway comr.

Tenn., Huntington — Carroll Co. voted $250,000 bonds, improving 200 mi. various roads (probably gravel) and bridges.

Ia., Allison — Butler Co. making plans grading and 6 in. concrete paving 204,191 yd. Primary Road 10, Project P-558. D. W. Burch, Allison, co. engr.

Ia., Cedar Rapids — L. J. Storey, city clk., City Hall, rejected bids Sept. 19, grading and 7 in. concrete, asphaltic concrete, sheet asphalt, warrenite bitulithic or brick paving 10,183 sq.yd. Blake Blvd. Will readvertise. R. W. Gearhart, City Hall, engr. Noted Sept. 15.

Ia., Independence—Buchanan Co. making plans grading and 6 in. concrete paving 69,480 sq.yd. U. S. Road 20. E. B. Spencer, Independence, co. engr.

Ia., Manchester—Delaware Co. making plans grading and 6 in. concrete paving 166,256 yd. U. S. Road 20, Project F-4. H. Klaus, Manchester, co. engr.

Ia., Maquoketa—Jackson Co. voted $1,000,000 bonds, paving and graveling various roads. F. E. Riley, Maquoketa, co. engr.

Ia., Red Oak—Montgomery Co. making plans 6 in. concrete paving 16 mi. Primary Road 34, $350,000; and grading 14 mi. same road, $25,000. P. A. Michel, Red Oak, co. engr.

Ia., Toledo — Tama Co. making plans grading, bridging, etc., 55 mi. roads, $268,000; and graveling 65 mi. roads, $190,000, during 1928. L. E. Clayton, Toledo, co. engr.

Kan., Emporia—Lyon Co. soon takes bids concrete, brick or gravel surfacing and bridging 3.858 mi. Rd. K-11, Federal Aid Project 260-G, 18 ft.; graveling and bridging 2.325 mi. Rd. K-57, 18 ft.; graveling 3.72 mi. Rd. 57, 28 ft.; also 100 ft. truss span bridge, 20 ft. over Daw Creek, on Federal Aid Project 260-F. O. D. Henry, Court House, engr.

Kan., Fredonia—Wilson Co. soon takes bids grading and chat surfacing 7.934 mi. various roads, 18 ft. E. C. Baity, Court House, engr.

Kan., Kinsley—Edwards Co. making preliminary plans grading, bridging and sand clay surfacing 8.398 mi. US 50-S, Federal Aid Project 302, Sect. H, 28 ft. A. H. Long, Court House, engr.

Kan., Larkin—Kearney Co. soon takes bids grading 8.156 mi. and constructing two 20 ft. I-beam bridges on Federal Aid Project 338-B, 28 ft. R. F. Darnell, Court House, engr.

Kan., Wellington — Sumner Co. made plans grading, bridging, etc., 16.21 mi. Conway Springs Rd. J. W. Mavity, Court House, engr.

Neb., Humphrey—Soon takes bids curbing and concrete paving 16,000 sq.yd. various streets. $50,000. Bruce & Grupe, 710 Bankers Reserve Bldg., Omaha, engrs.

Neb., Lincoln—Made preliminary plans grading, curbing and paving Garfield St. between 5th and 7th Sts., Dist. 773; R St. between 35th and 36th Sts., Dist. 774; Otoe St. between 13th and 14th Sts., Dist. 775; West St. between 30th and 32nd Sts., Dist. 776; F St. between 1st and West 2nd Sts., Dist. 786; and 2 alleys. D. L. Erickson, city engr.

Neb., Wahoo—Soon takes bids curbing, grading and concrete paving 15,000 sq.yd. Paving Dist. 9. Bruce & Grupe, 710 Bankers Reserve Life Bldg., Omaha, engrs.

Mo., Union—Soon takes bids grading, curbing and rein.-con. or brick paving, etc., 10,000 sq.yd. various streets. J. W. Shikles & Co., 708 New York Life Bldg., Kasas City, engr.

Ark., Dardanelle — Making preliminary plans grading, curbing and 6 in. rein.-con. paving, etc. 60,000 sq.yd. Paving Dist. 2, S. M. Davies, Morrilton, engr.

Ark., Dermott—Making preliminary plans grading, curbing and paving etc. approximately 60,000 sq.yd. various streets.

Ark., Hot Springs—Soon takes bids constructing streets in Dists. 109, 111, and 112, $118,000; and grading, etc. Dist. 113. Smith & Annen, City Hall, engrs.

Ark., Little Rock—Making preliminary plans grading, curbing and paving Dists. 485 and 487.

Ark., Osceola—Making preliminary plans curbing and concrete paving approximately 9,000 sq.yd. Paving Dist. 5. $25,000. O. M. Fairley, Osceola, engr.

Tex., Houston—Making plans 2 in. on 6 in. concrete paving 2,200 ft. Scott St., 35 ft., $30,000; and 1 mi. Canal St., 42 ft., $150,000. J. C. McVea, Houston, engr.

Tex., Houston—Harris Co. making plans bituminous on gravel surfacing 1.5 mi. Lawndale Rd. from Bayou to Bway. $25,000. A. J. Wise, Houston, engr.

Tex., Kaufman — Kaufman Co. voted $40,000 bonds, permanent paving highway 40, in Forney Precinct. Address C. Ashworth, Kaufman, co. judge. Noted Oct. 6.

Tex., Nocona—Making plans 8 in. rein.-con. paving various streets. $70,000. Devlin Eng. Co., Central Bldg., Amarillo, engrs.

Tex., Richmond—Fort Bend Co. plans 10 in. gravel surfacing 12 mi. Highway 19, 18 ft., $50,000; also asphalt surfacing same road, $20,818, State appropriates $10,409 towards cost. B. Hedick, resident engr.

Tex., Sinton—Voted $113,000 bonds, street improvements. Address City Secretary.

Oklahoma—State Hy. Dept., Oklahoma City, made preliminary plans grading, etc., 11 mi. Highway 33, 30 ft., Payne Co. $75,000. C. R. Mandigo, Capitol, Oklahoma City, engr.

Oklahoma—State Hy. Dept., Oklahoma City, making preliminary plans grading and paving 4 mi. Highway 29, 30 ft., Carter Co. $100,000. C. R. Mandigo, Capitol, Oklahoma City, engr.

Okla., Drumright—Plans grading, curbing and 6 in. concrete paving 7,200 sq.yd. Dist. 8. $28,000. F. H. Peckham, 227 West Grand St., Oklahoma City, engr.

Okla., Deer Creek—Voted $26,608 bonds, grading and paving 7 blocks Main St., 30-76 ft. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Ponca City—Plans grading, curbing and vertical fiber brick paving 8,200 sq.yd. Dist. 71. $36,471. H. W. Crawford, Ponca City, engr.

Okla., Tecumseh — Defeated $85,000 bonds, paving 28 blocks Dist. 2. O. M. Drake, Muskogee, engr.

Okla., Tulsa—Making preliminary plans 10 mi. boulevard system, 75 ft. Election soon $2,000,000 bonds, for same. C. Schultz, City Hall, engr.

Calif., Alameda — Defeated $213,000 bonds, widening Park and Webster Sts., etc.

Calif., Berkeley—Making estimates constructing boulevard through residential section, north and south Berkeley traffic through city. To exceed $25,000.

Calif., Compton—Plans concrete paving, mains, etc., Orange St., etc. To exceed $25,000.

Calif., La Mesa—Plans Durite paving, sewers and watermains in Date and Acacia Aves., etc. To exceed $25,000.

Calif., Los Angeles—Los Angeles Co. making surveys improving approximately 7 mi. Florence Ave. between east city limits of Inglewood and Washington Blvd. in Venice, 70 ft. G. W. Jones, Hall of Records, engr.

Calif., San Diego—Made plans curbing and 2 in. asphalt on 4 in. asphaltic concrete paving, etc. 13,933 sq.yd. Dewey and 26th Sts.; curbing, walks and 2 in. on 4 in. asphaltic concrete paving, etc. 7,802 sq.yd. Sunset Clifts Blvd., curbing, walks, 8 in. asphaltic concrete paving 34,219 sq.yd., 6 in. concrete paving, etc. 20,665 sq.yd. 28th, Webster and Clay Sts., et al; also curbing, walks and 6 in. concrete paving 24,476 sq.yd. Pescadero St. et al. F. M. Lockwood, City Hall, engr.

Calif., San Rafael—Marin Co. made specifications grading, etc. 140,000 cu.yd. Mill Valley-Stinson Beach Rd. R. Messner, San Rafael, co. surv.

Que., Montreal — Soon takes bids paving Sherbrooke St. $110,000.

Ontario — Dept. Provincial Highways, Parliament Bldgs., Toronto, R. M. Smith, ch. engr., making plans asphalt or concrete paving 45 to 50 mi. highway from Hamilton to Niagara Falls via Welland, 20 ft. $1,000,000.

B. C., West Vancouver—Defeated $220,000 bonds, resurfacing Marine Dr., and new bridge over Capelano River. G. S. Hanes, 128 3rd St. W., North Vancouver, engr.

Mexico, Matamoras — City, c/o L. R. Rendon, making plans permanent hard paving 50 blocks various streets. $150,000. City Eng. Dept., engrs. Interested contractors should communicate with owner at once.

Bids Desired

Rhode Island — Nov. 23, by State Bd. Pub. Wks., State House, Providence, 8 in. bituminous macadam paving, penetration method, 3 mi. highway in Hopkinton Contr. 2713, 2.2 mi. highway in Middletown, Contr. 2714, 4.7 mi. highway in East Greenwich, Warwick and West Warwick, Contr. 2715, 2.2 mi. highway in Johnston, Contr. 2716, and 3.4 mi. highway in Bristol and Warren, Contr. 2717, all foregoing 20 ft. wide; and 8 in. rein.-cement concrete paving 1.6 mi. highway in Cranston, Contr. 2712, Federal Aid Project 50, 40 ft. wide.

N. Y., St. George—Nov. 23, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading Eltingville Blvd. and concrete curbing Trossach Rd.

New Jersey — Nov. 28, by State Hy. Comn., Trenton, grading and 8 in. double line rein.-con. paving 15,563 cu.yd. Route 1, Sect. 3A, Robbinsville Cutoff, Mercer Co.; and 51,510 sq.yd. Route 30, Sect 5, (Revision 1927), Hunterdon Co. A. L. Grover, ch. clk.; adv. E. N.-R. Nov. 17. Noted Mar. 3.

Maryland — Nov. 22, by State Roads Comn., Baltimore, graveling 1.2 mi. Contr. AA-48, Anne Arundel Co.; and concrete shoulders on 1.5 mi. Contr. W-26, Washington Co. J. N. Mackall, chn.

Md., Baltimore—Nov. 23, by Bd. Awards, sheet asphalt paving 11,000 sq.yd. streets listed in Contr. 441. N. L. Smith, City Hall, highways engr.

S. C., Camden—Nov. 22, at City Council chamber, sheet asphalt, warrenite-bitulithic, asphaltic concrete, or rock asphalt paving various streets. Loughlin Engineering Co., Camden, engrs.

Ga., Dawson—Nov. 29, by R. R. Marlin, mayor and Council, grading, curbing, guttering and paving, etc., 35,000 sq.yd. various streets. H. S. Jaudon Eng. Co., Elberton, engrs.

Louisiana—Dec. 8, by State Hy. Comn., Baton Rouge, grading and graveling 17.577 mi. Winnsboro-Columbia Highway, State Project 483, Franklin Parish, and 6.921 mi. Many Zwolle-Converse-DeSota Parish Line Highway, State Project 398-G, Sabine Parish. N. W. Bowden, highway engr.

Louisiana—Dec. 22, by State Hy. Comn., Baton Rouge, grading, etc., 13.19 mi. Clinton-Bluff Creek Highway, State Project 573, Unit 1, East Feliciana Parish; and 1.778 mi. Baton Rouge-Greensburg Highway, State Project 514, Unit 1, East Feliciana Parish. N. W. Bowden, highway engr.

La., Plaquemine — Nov. 21, by Comn. Council, grading, curbing, guttering and sidewalks on various streets. Swanton & McGraw, Balter Bldg., New Orleans, engrs. Noted Nov. 3.

Ind., Porter — Nov. 22, by Bd. Town Trustees, graveling Dune Forest Trail, North Triangle, East Triangle, Dune Pass, Woodland and Wagner Drives, Michigan, Indiana and Illinois Aves. G. W. Dabbert, town clk.

Michigan—Dec. 1, at Houghton Co. Road Office, Hancock, concrete or bituminous concrete paving 9.694 mi. MO31-19, C-1, and 2.523 mi. MO31-18, C-1, both 18 ft. for State Hy. Dept., Lansing. G. D. Tramp, Crystal Falls, resident engr.

Minnesota—Nov. 29, by State Hy. Dept., St. Paul, grading and concrete paving 645,110 sq.yd. Federal Aid Projects 263, 394-B, 394-A, 305, 384-A, 316, and 396. Eng. Dept. State Hy. Dept., 1246 Universtiy Ave., St. Paul, engrs.

Kan., Council Grove—Dec. 6, by Clerk Morris Co., sand clay surfacing 3.258 mi. US 50-N, Project 171-A.

Kan., Girard—Nov. 28, by Clerk Crawford Co., grading, etc., 56,799 cu.yd. Project 32-C. J. H. Ludlow, Girard, co. engr.

Kan., Hiawatha — Nov. 28, by Clerk Brown Co., grading 5 mi. K 20, Project 93.

Streets and Roads (Continued)

Kan., Howard—Dec. 18, by Clerk Elk Co., grading, etc., 76,225 cu.yd. Federal Aid Project 164-C. Kansas Eng. Co., 601 Kansas St., Topeka, engrs.

Kan., Marion—Dec. 5, by Clerk Marion Co., sand clay surfacing 10.747 mi. US 50-N, Project 170-B.

Kan., Oswego—Nov. 29, by H. Owens, clk. Labette Co., grading and bridging 3.597 mi. Federal Aid Project 241-B, 18 ft., 57,943 cu.yd. earth excav., 68,337 cu.yd. borrow, 7,190 cu.yd. gravel etc. J. F. Grady, Court House, engr.

Kan., Sedan—Dec. 1, by M. L. Jones, clk. Chautauqua Co., grading 4.495 mi. and concrete paving 0.505 mi. Federal Aid Project 384-A, 30 ft. and 18 ft., 24,637 lb. reinforcing etc. C. E. Fesler, Court House, engr. Noted Sept. 8.

South Dakota — Dec. 6, by State Hy. Comn., Pierre, and City of Sioux Falls, grading and concrete paving 42,510 sq.yd. Federal Aid Projects 12 and 98. O. N. Hetle, Pierre, highway engr.

Arizona—Nov. 21, by State Hy. Comn., Phoenix, grading and 2 in. asphaltic concrete or bitulithic on 4 in. bituminous paving 51,000 sq.yd. Prescott-Jerome Highway, Federal Project 36-A-Reopened. W. C. Lefebvre, state engr.

Nevada — Nov. 23, by Directors Dept. Highways, Carson City, grading, crushed rock or gravel surfacing 15,600 cu.yd. road from point 2 mi. north of Carters to Gardnerville, Route 3, Sect. B-2, Douglas Co.; and 28,300 cu.yd. Federal Aid Projects 83, 101-A, Reopened and 101-B, Clark Co. S. C. Durkee, Carson City, highway engr.

Washington — Nov. 29, by State Hy. Com., Olympia, grading and graveling 3,280 cu.yd. State Road 7, Kittitas Co.; also grading and crushed rock resurfacing 14,700 cu.yd. State Road 3, Columbia and Garfield Counties. S. J. Humes, Olympia, highway engr.

Calif., Inglewood—O. H. Duelke, city clk., taking bids grading, curbing, walks, etc. on Austin Ave. and Industrial Way, etc. $25,000 or more. W. Peffer, eity engr.

Calif., Los Angeles—Nov. 21, by Supervs. Los Angeles Co., grading, curbing, walks, guttering and vibrolithic concrete paving, etc. Brooklyn Ave., Impvt. 322. To exceed $150,000. G. W. Jones, Hall of Records, engr.

Calif., Los Angeles—Nov. 28, by Supervs. Los Angeles Co., curbing and concrete paving, etc., 1.85 mi. Garvey Ave. and Monterey Pass Rd. G. W. Jones, Hall of Records, engr.

Contracts Awarded

Mass., Boston—Dept. Pub. Wks., granite block paving Kneeland St., to A. DeStefano, 288 Summer St., $49,405. Noted Oct. 20.

Mass., Boston — Dept. Pub. Wks., sheet asphalt paving Alcorn St. and Ward 21, to A. DeStefano, 288 Summer St., $26,951.

Mass., Waltham—Dept. Mental Diseases, State House, Boston, grading, etc. Trapelo Rd. at Metropolitan Hospital, at junction town lines, Waltham, Lexington and Belmont, to Bruno & Pettiti, 18 Tremont St., Boston; drainage, to W. J. R. Totman, South Easton; and graveling, to R. H. Newell, Uxbridge. Engrs. est. to exceed $25,000. Noted Oct. 27.

N. Y., Brooklyn—Park Bd., W. R. Herrick, pres., Park Dept., Arsenal Bldg., Central Park, New York City improving Coney Island Ave. from Ocean Parkway to West 5th St., here to M. J. O'Hara, Neptune Ave., and West 19th St., $54,960. Noted Oct. 27.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., grading and granite block repaving Beach St., also grading and sheet asphalt paving 40th St., to W. J. Fitzgerald, Grand Central Terminal, $49,004 and $38,018 respectively, and Lenox Ave., to C. D. Beckwith, Inc., Seneca Ave. and Edgewater Rd. $21,802; also asphalt paving Sickles St., to Asphalt Constr. Co., 208 Bway., $25,273. Grand total $134,097. Noted Oct. 27.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, grading Washington Ave. from Elizabeth Grove Rd. to Plaza Elizabeth-Howland Hook Bridge, to Rosoff Bros., Bway. and Gates Ave. Brooklyn, $42,965; Washington Ave. from point 880 ft. east of west house line Elizabeth Grove Rd. to J. J. P'Rourke, 248 Gordon St., Stapleton, $46,750; also grading and bituminous concrete repaving Taylor St. to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $7,835. Grand total $97,550. Noted Nov. 3.

Pennsylvania—State Hy. Comn., Harrisburg, grading 17,000 cu.yd. Route 122, Madison Twp., Perry Co., to J. M. Hutchison, Greenwood St., Altoona, $34,325; also grading and 6.5 in. rein.-con. paving 17,100 sq.yd. Application 4528, Burnham Boro, Mifflin Co., to J. B. Trexler, Lewistown, $62,650. Noted Oct. 20.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to T. P. Lee, 5629 Cherry St., grading Malvern St. $4,319, and to J. F. Nolan & Son, 64 Church Lane, Renovo, Sterling and 20th Sts. $13,121; to Mack Paving & Contg. Co., Nicetown Lane and Luzerne St., paving (assessment work) Courtland St. $50,074, Ditman St. $6,004, and Stiles St. $5,893, to Municipal Constr. Co., Inc., Washington Sq. Bldg., Ogontz St. $17,144, and 21st St. $6,114. Grand total $57,669. Noted Nov. 3.

Pa., Uniontown—Fayette Co., concrete on stone paving 1.77 mi. Owensdale to Everson Rd., and 1 mi. Connellsville-Poplar Grove Rd., to Georges Constr. Co., Uniontown, $74,110 and $51,374 respectively. Noted Sept. 1.

Maryland — State Roads Comn., Baltimore, graveling 1.5 mi. Contr. SM-41, St. Marys Co., to Southern Maryland Constr. Co., 14 East Lexington St., Baltimore, $15,592; and 1.74 mi. Contr. P-64, Prince Georges Co., to V. A. Pyles, 5th St. and Chesapeake Ave., Brooklyn. $22,942. Noted Oct. 20.

Fla., Hollywood — City Clerk, curbing, sidewalks and paving 70,000 sq.yd. various streets, to Godcharles & Darrow, Hollywood, $97,148. Noted Oct. 20.

Miss., Meridian—Bd. Supervs. Lauderdale Co., improving 7.949 mi. Federal Aid Project 192-A, 16,638 cu.yd. gravel 1 mi. haul, 225,031 units overhaul, 74,614 cu.yd. mixing clay and gravel, etc., to Boddie Constr. Co., Laurel; furnishing gravel for above road to Richton Investment Co., Richton, at $1.40 per ton.

La., Benton—Bossier Parish, grading and graveling, etc. Benton-Plain Dealing Highway, to J. C. Wimberly, Church Point, $94,494; pit run gravel, to Parker Gravel Co., Commercial Bank Bldg., Benton, at $2.05 per cu.yd.; and washed gravel, to Meriweather Supply Co., 1312 Jordon Ave., Benton, at $2.44 per cu.yd.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, grading and 2½ in. brick paving, etc. 5.467 mi. Sect. "C-2" Columbus-Lancaster Rd., Fairfield Co., to R. J. Deinst, 209 South High St., Columbus, $149,103; grading and concrete paving, etc. 4.093 mi. Sect. "M" Steubenville-Cambridge Rd., Jefferson Co., to W. L. Johnson Co., Hicksville, $160,788, and 0.466 mi. Sect. "Woodville East" Bowling Green-Port Clinton Rd., Sandusky Co., to Modern Constr. Co., Fremont, $15,762; grading and asphaltic macadam paving, etc. 5.158 mi. Sect. "J" Tiffin-Bellvue Rd., Seneca Co., to Peerless Constr. Co., Fremont, $122,899; also grading, etc. 3.973 mi. Sect. "D" Millersburg-Wooster Rd., Wayne Co., to Griggs-Anderson Co., Millersburg $48,489, and 3.835 mi. Sect. "J" Loudonville-Wooster Rd., Wayne Co., to Burnhart & Mohler, Canton $29,776. Grand total $526,817. Noted Oct. 20.

O., St. Clairsville — Belmont Co., Court house, St. Clairsville, constructing Warnoch-Lamira Rd., to Miller & Pletcher, St. Clairsville, $134,736.

Ind., Michigan City—Bd. Wks., rein.-con. paving 4,000 ft. Gardena St., to Columbia Constr. Co., Michigan City, $41,619.

Mich., Detroit—One course 6 in. concrete paving 16,066 sq.yd. Alleys 3447 to 3458 (inclusive), to Otis Cement Constr. Co., 402 Hammond Bldg., and Bishop & Weir, 955 East Jefferson Ave. Engrs. est. $33,000.

Mich., Pontiac—For 8 in. concrete paving 21,800 sq.yd. industrial drives for Yellow Truck & Coach Mfg. Co., to J. A. Utley, 729 Penobscot Bldg., Detroit. Engrs. est. approximately $60,000.

Mich., Pontiac—For 9 in. concrete paving approximately 8,800 sq.yd. South Blvd., to Schaefer-Thompson Co., Pontiac. Engrs. est. approximately $30,000.

Ia., Albia—Monroe Co., to S. J. Groves & Son Co., 306 Globe Bldg., Minneapolis, Minn., improving 16.4 mi. U. S. Rd. 34, Project 554, 59,200 yd. earth excav. at $0.46 per yd., and 172,947 yd. 6 in. concrete paving $2.34. Noted June 23.

Ia., Anamosa—Jones Co., to Harrison Eng. & Constr. Corp., Mutual Bldg., Kansas City, Mo., improving 24.71 mi. U. S. Road 161, Federal Aid Project 36, 92,720 yd. earth excav at $0.50 per yd. and 261,292 yd. 6 in. concrete paving $1.82.

Ia., Boone—Boone Co., grading 5.45 mi. U. S. Highway 30, to Lamoreaux Bros., 418 Peters Trust Bldg., Omaha, Neb., $79,050.

Ia., Chariton—Lucas Co., grading and paving 13.59 mi. U. S. Highway 34, Project 551, to Union Constr. Co., 200 New York St., Des Moines, $374,845. Noted June 23.

Ia., Mt. Pleasant—Henry Co., to Union Constr. Co., 200 New York St., Des Moines, improving 9.31 mi. U. S. Rd. 34, Federal Aid Project 56, 30,779 yd. earth excav. at $0.48 per yd. and 98,367 yd. 6 in. concrete paving $2.34, and 8.92 mi. U. S. Rd. 34, Federal Aid Project 151, 26,700 yd. earth excav. $0.48, and 94,357 yd. 6 in. concrete paving $2.31. Noted Aug. 11.

Ia., Tipton—Cedar Co., to Littig Constr. Co., 1st Natl. Bank Bldg., Davenport, improving Springdale-West Liberty Rd., 42,500 cu.yd. excav. at $0.294 per cu.yd., 15,000 yd. overhaul $0.02, and 436 ft. culvert labor $0.35 to $0.45.

Ia., Tipton — Cedar Co., to McCarthy Impvt. Co., Davenport, improving 8.08 mi. Primary Rd. 38, Project 114-C, 14,818 yd. earth excav. at $0.50 per yd, and 85,090 yd 6 in. concrete paving $2.30.

Ia., Wapello—Louisa Co., to Littig Constr. Co., 1st Natl. Bank Bld., Davenport, improving road system, 68,578 cu.yd. excav. at $0.26 per cu.yd., 740 ft. culvert labor $0.35, and 342 ft. $0.45; to Cronkhite Constr. Co., Perry, 7,189 ft. guard rail $0.185-$0.45 per ft. ,51 baffle walls $8.50, and 22 end anchors $7.80; to L. Plumb, Wapello, 3,700 ft. tile drain $0.14, and 600 ft. $0.25

Ia., West Union—Fayette Co., to A. F. Johnson Constr. Co., Minneapolis, Minn., improving 24.95 mi. Primary Rd. 11, Project 553, 86,720 yd. earth excav. at $0.50 per yd., and 263,839 yd. 6 in. concrete paving $2.27. Noted Aug. 11.

Ia., What Cheer — Rein.-con. paving 9,787 sq.yd. Barnes St., to J. P. Abramson, 2902 Cottage Grove Ave., at $2.28 per sq.yd. Noted Sept. 8.

Kan., Ashland—Clark Co., grading, etc. 1.122 mi. Federal Aid Project 365, Sect. A, also constructing twenty-three 21 ft. pile trestle span bridge over Big Sand Creek, at Englewood, to A. R. Mackey, Greeley, Colo., $25,807.

Kan., Hutchinson—Reno Co., brick or asphalt paving over Cow Creek on Ave. A, from Main to Washington Sts., to Stamey-Tidd, Constr. Co., Hutchinson, $31,757.

Kan., Wakeeney — Trego Co. to Felton Constr. Co., Hays, improving US. Highway 40-S, Federal Aid Project 382, Kansas Project 60, Sect. C, 60,000 cu.yd. excav. and embankment, concrete posts, cable guard fence, etc. $14,251, 10.197 mi. culverts $17,072, and three 7 ft. multiple box span bridge, 30 ft. on Sta. 399 plus 50, 5½ mi. from Collyer $2,118. Grand total $33,441.

Kan., Sharon Springs—Wallace Co., to San Orr Constr. Co., McPherson, graveling 8.011 mi. US 40 S, 375-A and B $10,420, a three 25 ft. span bridge on same road $6,511, also sand clay surfacing 16.822 mi. US 40 S, Project 142-C $14,671. Grand total $31,602. Noted Oct. 20.

Nebraska — Dept. Pub. Wks., State House, Lincoln, 3 in. sand gravel surfacing, etc., 15.7 mi. Pierce-Wausa Rd., Federal Aid Project 268-A, to C. W. Smaith, Plainview, $39,240. Noted Oct. 20.

Neb., Fremont—Grading, curbing and rein.-con. paving 12,956 sq.yd. streets in Paving Dists. 81, 82, 83 and 84, to W. Weidner, 1125 East 12th St., Fremont.

Neb., Lincoln—Grading, curbing and asphaltic concrete paving F St. between 1st and 7th Sts., Dist. 429, to Abel Constr. Co., Terminal Bldg., $28,920; asphaltic resurfacing 2,075 sq.yd., to Cochrane Constr. Co., 822 1st Natl. Bldg., $2,560; concrete paving, etc., 235 sq.yd. alley in Dist. 194, to Reimers-Kaufman Co., 16th and West Sts., $630; 650 ft. 6 in. sewer in Dist. 121, to J. L. Deffenbaugh, 2124 Smith St. $1,174, 1,730 ft. 6 in. sewer in Dist. 125, to G. L. Vlasnik, 1721 South 22nd St. $2,460; and 3,880 ft. 8 in. vitr. sewer in Dist. 313, to Knudsen Co., Bankers Life Bldg., $3,075. Grand total $38,819.

Neb., Lincoln—Curbing, guttering and asphaltic concrete paving, etc., Dist. 765, to Abel Constr. Co., 308 Terminal Bldg., $102,020.

South Dakota—State Hy. Comn., Pierre, plans grading, etc. 8 mi. road from Mission to Rosebud Todd Co., and 14 mi. from Edgemont to Wyoming state line, Fall River Co. O. N. Hetle, Pierre, highway engr.

Mo., Joplin—Concrete paving, etc., 18,200 sq.yd. 15th St. and 5,400 sq.yd. Sergeant Ave., to H. Kost, 2002 Jackson Ave., at $1.62 per sq.yd.; also asphaltic concrete paving 2,750 sq.yd. 5th St., to Granite Bituminous Paving Co., Railway Exch. Bldg., $1.63. Noted Oct. 27.

Ark., Arkadelphia — L. Goodloe, secy. Street Impvt. Dist. 4, grading, concrete sewers, and rein.-con. paving etc. 70 blocks various streets, to Phoenix Constr. Co., Fort Smith, $195,000.

Streets and Roads (Continued)

Tex., Amarillo—For 3 in. brick paving approximately 7,500 yd. East 7th St., to Texas Road Co., Amarillo, $36,354.

Tex., Cotulla—La Salle Co. making plans hardsurfacing 44 mi. Highway 2, Meredian Highway, $800,000; and improving 46 mi. road from Cotulla to Los Angeles and Fowlerton to McMullen Co. line, $600,000. G. A. Bracher, Cotulla, engr. Noted May 26.

Tex., Houston—For 2 in. asphalt on 6 in. concrete paving Texas Ave. from Hutchins to Live Oak, to A. M. Arnold Co., 112 Buffalo St., $29,326, and Tuam St. from Genesee to Milam Sts., to Gulf Bithulitchic Co., 2820 Polk Ave., $35,824. Engrs. est. $40,000 each.

Tex., Ranger—Curbing, guttering, walks, brick on 8 in. crushed stone paving 60,000 sq.yd. various streets, to W. E. Burke, Sweetwater, $149,095. Noted Oct. 27.

Tex., San Angelo — For 7 in. rein.-con. paving Dist. 9, and 6 in. rein.-con. paving Dist. 10, to L. E. Whitham Co., 1901 Austin Ave., Wichita Falls, $155,404 and $154,101 respectively.

Tex., San Benito—Concrete curbing and concrete paving approximately 15,000 sq. yd. total business district, to Dodds & Wedegartner, at $2.90 sq.yd., total approximately $50,000. Noted Oct. 13.

Tex., Wichita Falls—For 8 in. rein.-con. paving portions Ave. F, Park, Jefferson, Mill, Tilden, 5th and 6th Sts., to L. E. Whitham & Co., Wichita Falls, at $2.85 per sq.yd., total approximately $32,500.

Okla., Shawnee—For 2 in. Oklahoma rock asphalt on 5 in. concrete paving 10,000 sq. yd. Dist. 43, and 8,000 sq.yd. Dist. 55, to H. L. Cannady, 1120 South Lewis St., Tulsa, $59,831 and $45,917 respectively.

Okla., Tulsa—Tulsa Co., **(e.e. means engrs. est.)** 7 in. concrete paving 24,485 sq.yd. Wekiwa Rd., to Highway Constr. Co., Daniels Bldg., $59,040 e.e. $62,000; 36,935 sq.yd. Sheridan Rd., to E. Mead, Nebraska Bldg., $87,222 e.e. $90,000; and 13,871 sq.yd. Price Rd., to B. Gibbs, Nebraska Bldg., $29,776 e.e. $32,000. Grand total $175,038. Noted Aug. 18.

Okla., Wewoka—E. J. McBride, city clk., grading, curbing and 6 in. concrete paving 28,740 sq.yd. streets in Dist. 12, to Hansen & Pearce, Perrine Bldg., Oklahoma City, $91,472. Engrs. est. $93,778. Noted Oct. 27.

Arizona — W. V. Lefebvre, engr. State Hy. Comn., Phoenix, grading and gravel surfacing 23,550 cu.yd. Safford-State Line Highway, Federal Aid Project 88-B, to Dudley & Amesbury, El Paso, Tex., $83,549 incl. 10% for engineering and contingencies.

Washington—State Hy. Comn., Olympia, clearing, grading, constructing 5 timber bridges, etc., 6.33 mi. State Road 5 from Hells Crossing to Union Creek, Yakima Co., to Myers & Goulter, Easton, $127,577. Noted Oct. 20.

Calif., Hawthorne — Grading, guttering and asphaltic concrete on disintegrated granite paving Maryland Ave. between Inglewood and Hawthorne Aves., to G. H. Oswald, 344 East 58th St., $82,399. Noted Oct. 13.

Calif., Laguna Beach—Yoch Co., curbing, walks and oil macadam paving, etc. Mirado Sub-division, to A. R. McGrath, 1107 South Brand Blvd., Glendale, $50,000.

Calif., La Mesa—Durite paving, etc. 120,760 sq.ft. Boulder Pl., Hillcrest Ave. and Chevy Chase Dr., etc., to Hazard Contg. Co., 2548 Kettner Blvd., San Diego, approximately $73,830.

Calif., Los Angeles — City (e.e. means engrs. est.), improving Owensmouth Ave. and 3rd St. to G. H. Oswald, 366 East 58th St. $259,478 and $34,068 respectively e.e. $302,532 and $36,734 respectively; Cabrillo Ave., to McCray Co., 4482 East Worth St., $142,405 e.e. $154,150; Corning St., to G. R. Curtis Paving Co., 2440 East 26th St., $62,744 e.e. $62,624; also San Fernando Rd., to Griffith Co., 520 Los Angeles Railway Bldg., $193,179 e.e. $227,742. Grand total $691,874. Noted Oct. 27.

Calif., Los Angeles—Los Angeles Co., grading, curbing, walks, guttering and oil and rock surfacing, etc. Jackson St., Impvt. 545, to G. T. McLain & Son, 1124 Las Palmas Ave., $43,196.

Calif., Salinas—M. R. Keef, city clk., grading and 5 in. concrete paving, etc. portions Park, E and Alisal Sts., etc., to W. A. Dontanville, Salinas, approximately $25,415. Noted Oct. 27.

Calif., Salinas—Monterey Co., oil bound macadam paving, etc. Monterey-Castroville Highway, to Granite Constr. Co., Watsonville, $79,710.

Calif., San Anselmo — Westland Park Subdivision Co., concrete paving, etc., (1st unit), Westland Park Subdivision Co., to Cuffe & White, Masonic Bldg., San Rafael, approximately $25,000.

Calif., San Diego—Common Council, improving El Cajon Ave., etc., and La Cresta, Ridge Rd., etc., to B. Noble, Spreckels Theatre Bldg., $185,656 and $109,615 respectively. Noted Oct. 13.

Calif., San Diego — Bd. Supervs. San Diego Co., to G. R. Daley, 4430 Boundary St., improving Rolando Units 4 and 5, 22,510 sq.ft. 5 in. concrete paving at $0.20 per sq.ft., 350,715 sq.ft. 4 in. Warrenite paving, etc. $0.163, 94,055 sq.ft. concrete walks $0.20, etc., total $230,319. Noted Sept. 29.

Calif., San Francisco—J. V. Campbell, 1072 Bryant St., grading and asphaltic concrete paving area bounded by Woodside and Idora Aves., Portola Dr. and Laguna Honda Blvd., to A. J. Raisch, 46 Kearny St., approximately $60,000.

Calif., San Francisco—Curbing and asphalt paving, etc. 149,783 sq.ft. Roosevelt Way, to Eaton & Smith, 715 Ocean Ave., $58,800.

Calif., Santa Ana—Orange Co., to Griffith Co., Railway Bldg., Los Angeles, improving Placentia-Yorba Rd., 113,500 sq.ft. gravel sub-base at $0.045 per sq.ft., 12,800 tons asphaltic concrete paving $4.25, etc., total approximately $69,825.

Calif., Stockton—A. L. Banks, city clk., grading, curbing, walks and paving, etc. Weber Ave., to J. E. Johnston, E and Weber Sts., $43,500. Noted Oct. 20.

Calif., Ventura—Ventura Co., asphaltic concrete surfacing, etc., portion Telegraph Rd., to Southwest Paving Co., Washington Bldg., Los Angeles, $30,335. Noted Apr. 14.

Calif., Whittier — For 7 in. concrete paving, etc. 177,398 sq.ft. Turnbull Dr., etc., to Northern Constr. Co., Olsen Bldg., Burbank, $40,289. Noted Sept. 29.

Ont., Toronto—York Twp. concrete curbing, guttering and bituminous concrete paving approximately 7,000 sq.yd. Northcliffe Blvd., to Kilmer & Barber, 10 Adelaide St. E., $33,111.

Africa, Abyssinia—See "Dams."

Buildings—Commercial

Proposed Work

Mass., Barnstable — THEATRE — J. M. Johnson, 97 Massachusetts Ave., Boston, plans theatre, Main St., here. $150,000 or more. Engineer and architect not selected.

Mass., Belmont (br. Boston)—HOSPITAL—Belmont Hospital, Inc., H. Stockwell, pres., 80 Stone Rd., having preliminary plans prepared by H. T. Underwood, 46 Cornhill, Boston, altering and constructing 3 story and basement, brick and stone addition, plain foundation, Washington St. $150,000 or more.

Mass., Boston—CLUBHOUSE and HOTEL—Coolidge & Carlson, archts., 89 State St., receiving estimates on preliminary plans 14 story and basement, brick and steel, plain foundation, for The Durant, Inc., 336 Huntington Ave., F. B. Chuld, chn. building comn. To exceed $150,000. Noted Oct. 27.

Mass., Brookline (br. Boston)—APARTMENT — Owner, c/o Eisenberg & Feer, archts., 46 Cornhill, Boston, having plans prepared 3 story and basement, 120 x 180 ft., brick and stone, plain foundation, Washington St. $250,000.

Mass., Framingham—STORE, OFFICE and APARTMENT — R. H. Long Realty Co., Waverly St., plans store, office and apartment building, Union Ave. $150,000 or more. Engineer and architect not selected.

Mass., Lawrence — OFFICE — Merchants Trust Co., H. L. Sherman, pres., Appleton St., plans 3 or 4 story and basement, probably brick and stone, 246-256 Essex St. $150,000 or more. Engineer and architect not selected.

Mass., Leominster—THEATRE—A. McEvoy, c/o J. E. Kelly, archt., 38 Chauncy St., Boston, having preliminary plans prepared 1 and 2 story and basement, brick and steel, plain foundation, Mechanic St. $150,000.

Mass., Mansfield — THEATRE — M. P. Foster, 160 Elm St., New Bedford, soon takes bids 1 and 2 story and basement, 70 x 120 ft., brick and steel, plain foundation, Main St. $160,000. L. G. Foster, North Main St., archt. Noted Nov. 17.

Conn., New Haven—Y. W. C. A., 568 Chapel St., having plans prepared by D. Orr, 956 Chapel St., 4 story and basement, 35 x 100 ft. and 50 x 180 ft., brick and steel, incl. cafeteria, offices, dormitory rooms, swimming pool, etc., Humphrey St. $350,000. W. Thompson, 342 Madison Ave., New York City, engr.

N. Y., Brooklyn—APARTMENT—Syndicate, c/o Shampan & Shampan, archts., 188 Montague St., having plans prepared, 6 story and basement, 100 x 220 ft., Bay Parkway and 83rd St. $800,000.

N. Y., New York — APARTMENT — I. Feldman, 300 Madison Ave., having plans prepared by Gronenberg & Leuchtag, 1385 Bway., 10 story and basement apartment, 3rd Ave. and 35th St.

N. Y., New York — BANK — Hermor Realty Corp., c/o R. Garfield, 127 Madison Ave., plans 3 story and basement, granite and limestone, 910 8th Ave. $250,000. Engineer and architect not selected.

N. Y., New York—HOSPITAL—Montefiore Hospital, Gunhill Rd., had sketches made by Kohn & Butler, 56 West 45th St., two hospital buildings, Gunhill Rd. $300,000 and $500,000.

N. J., Arlington—APARTMENT—Stuyvesant Holding Corp., 185 Market St., Newark, having plans prepared by D. J. Scrocco, 60 Park Pl., Newark, 3 story and basement, 80 x 90 ft., brick and steel, plain foundation, here. $150,000.

N. J., Asbury Park—APARTMENT HOTEL—Owner, c/o A. P. Nuiciarone, archt., 206 Central Ave., Orange, having plans prepared 6 story and basement, 50 x 150 ft., brick and steel, plain foundation, here. $250,000.

N. J., Asbury Park—GARAGE, SHOWROOM, STORE and MACHINE SHOP—S. Schneider, 418 Main St., having plans prepared by C. B. Cook, 700 6th Ave., 3 story and basement, 100 x 150 ft., brick and steel, plain foundation, Cookman and Munroe Aves. $400,000.

N. J., Atlantic City—APARTMENT—T. J. Koury, 919 Boardwalk, having revised plans prepared by A. F. Amodio, 45 Branford Pl., Newark, 5 story and basement, brick and steel, plain foundation, Beach and Cornwall Ave. $225,000. Noted Sept. 29.

N. J., Bayonne—CLUB HOUSE—B. P. O. E., 39 West 34th St., plans brick and steel, plain foundation, Avenue C, between 31st and 32nd Sts. W. $150,000. Engineer and architect not selected.

N. J., Browns Mills—SANITARIUM—Browns Tuberculosis Sanitarium, Browns Mills, plans addition. $500,000 funds being raised for same. Engineer and architect not selected.

N. J., Camden—BANK and OFFICE—Camden Safe Deposit & Trust Co., 224 Federal St., having plans prepared by Rankin & Kellogg, 1805 Walnut St., Phila., Pa., 70 x 120 ft., rein.-con., brick and steel, plain foundation, Market St. and Bway., here. Noted Apr. 14.

N. J., Cranford—APARTMENT—A. G. Constr. Co., 39 Branford Pl., Newark, having plans prepared by R. Bottelli, 45 Branford Pl., Newark, 3 story and basement, 100 x 125 ft., brick and steel, plain foundation, 20-26 Springfield Ave. $150,000.

N. J., East Orange—APARTMENT—D. S. Koggan, 418 15th Ave., Paterson, having plans prepared by A. Haenichen, 126 Market St., Paterson, 10 story and basement, brick and steel, plain foundation, 238 Harrison St., here. $500,000.

N. J., East Orange—APARTMENT—D. S. Koggan, 418 15th Ave., Paterson, having plans prepared by Haenichen, 126 Market St., Paterson, 4 story and basement, 80 x 125 ft., brick and steel, plain foundation, 33 Sanford St., here. $150,000.

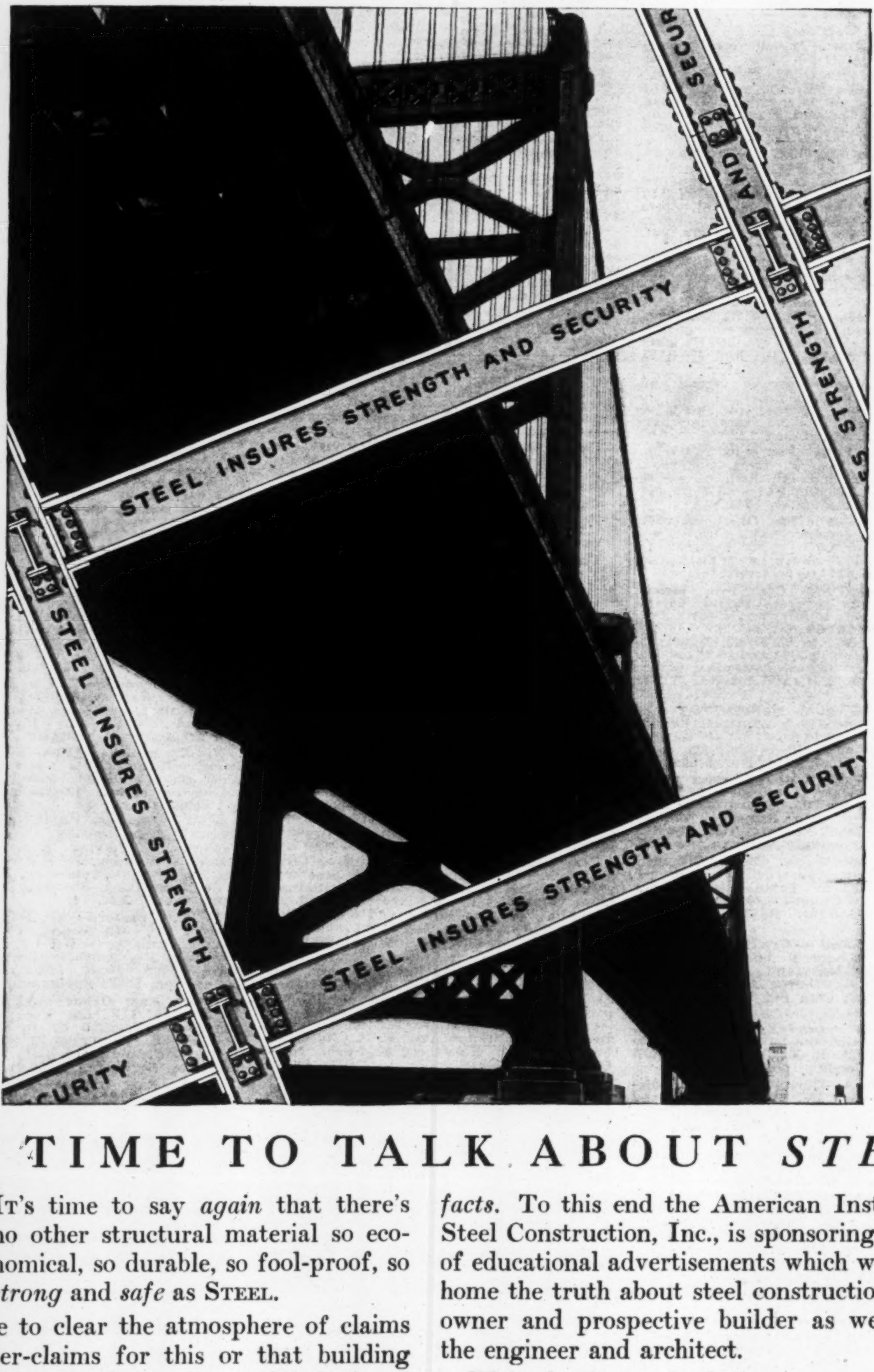
N. J., East Orange—APARTMENT—A. Lieb, c/o E. V. Warren, archt., Essex Bldg., Newark, having plans prepared 4 story, 80 x 120 ft., brick and steel, plain foundation, 170 South Clinton St. $155,000.

N. J., East Orange—CITY HALL—City having revised plans prepared by J. H. and W. C. Ely, 784 Broad St., Newark, 3 story and basement, 180 x 250 ft., brick and steel, plain foundation, North Arlington Ave. and New St. $200,000.

N. J., Jersey City—APARTMENT—B. Clott, c/o M. Kraut, archt., 14 Journal Sq., having plans prepared 4 story and basement, brick and steel, plain foundation, 22-26 Lexington Ave. $150,000.

N. J., Lakewood—CASINO—Hotel Assn. of Lakewood, C. Hecht, pres., 6th St., plans brick and steel casino, plain foundation, here. $150,000. Engineer and architect not selected.

N. J., Newark — APARTMENT — A. Potash, c/o S. Cohen, archt., 130 Branford Pl., having plans prepared 5 story and basement, brick and steel, plain foundation, 48-50 Milford Ave. $150,000.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Buildings—Commercial (Continued)

N. J., Newark — APARTMENT — Max Sloff, 786 Broad St., having plans prepared by E. Gerber, 786 Broad St., 3 story and basement, 50 x 170 ft., brick and steel, plain foundation, 95 Montclair Ave. $150,000.

N. J., Newark — OFFICE — Branford Building Co., c/o H. F. Clark, archt., 38 Clinton St., having plans prepared 22 story, 90 x 125 x 150 ft., brick, steel and rein.-con., plain foundation, Branford Pl. and Arlington St. $3,000,000.

N. J., Orange—APARTMENT—Ruby & Rudnewitz, c/o E. Gerber, archt., 786 Broad St., Newark, having plans prepared 5 story and basement, brick and steel, plain foundation, Lincoln and Heywood Aves., here. $175,000.

N. J., Red Bank—HOTEL—N. Harris, archt., 20 Branford Pl., Newark, soon lets contract general contract 9 story and basement, 124 x 400 ft., brick and steel, plain foundation, Riverside Ave., here, for Red Bank Hotel Co., C. A. Williams, Salz Bldg. $650,000. Noted Sept. 15.

N. J., Union City — APARTMENT — Auriemma & Macchi, 1739 Hudson Blvd., Jersey Ctiy, having plans prepared by C. I. Goldberg, 437 Bway., Bayonne, 4 story and basement, brick and steel, plain foundation, Bergenline Ave. and 8th St. $150,000.

N. J., Westfield—APARTMENT—Amond Land Constr. Co., c/o C. H. Darsh, archt., 537 Broad St., having plans prepared 3 story and basement, 75 x 125 ft., brick and steel, plain foundation, Lawrence and Walnut Sts. $150,000.

Del., Wilmington — LODGE—Wilmington Lodge 184 Loyal Order of Moose having plans prepared by Brown & Whiteside, du Pont Bldg., 3 story, 60 x 160 ft., brick, 12th and Market Sts. $500,000. Engineer not selected.

Md., Baltimore—APARTMENT HOTEL —H. M. Reinhart, Calvert Bldg., having plans prepared by F. E. Beall, 306 St. Paul St., 5 story, brick and steel, on 150 x 152 ft. site, Charles St. near 29th St. $450,000.

La., Lake Charles — BANK — Calcasieu Natl. Bank of Southern Louisiana, soon takes bids 1 and 2 story and mezzanine, 70 x 157 ft., and 25 x 157 ft., rein.-con., brick and steel, Ryan and Pujo Sts. $200,000. Favrot & Livaudais Ltd., Hibernian Bank Bldg., New Orleans, archts. Noted Nov. 3.

La., New Orleans—HOSPITAL—A. Moss, 2114 Jackson Ave., plans hospital. $250,000. M. H. Goldstein, Hibernia Bldg., archt.

La., New Orleans — HOTEL — Chicago Syndicate, c/o B. H. Marshall, archt., 612 Sheridan Rd., Chicago, Ill., making plans hotel, Bayou St. John, here. $2,000,000.

Tenn., Mullins (mail Cordova)—WORK HOUSE—Shelby Co. Institutions Com. plans workhouse. $200,000. Engineer and architect not selected.

Tenn., Nashville—APARTMENT—J. Calhoun, et al, Warner Pl., had plans prepared by Tisdale, Stone & Pinson, Independent Life Bldg., 18 apartment, brick and stone, Belle Meade Park. $225,000.

Mich., Ann Arbor—OFFICE and HOTEL —J. E. Beal, Huron and Main Sts., having plans prepared 10 story and basement, rein.-con., brick and steel, plain foundation Huron St. Engineer and architect's names withheld.

Mich., Detroit — APARTMENT — R. W. Babcock, Woodward Ave., soon lets contract 3 story and basement, 42 x 165 ft., rein.-con. brick and steel, plain foundation, Seward St. $175,000. Private plans.

Mich., Detroit — OFFICE — Wormer & Moore, Wormer & Moore Bldg., having plans prepared 4 story and basement, 40 x 100 ft., rein.-con., brick and steel, plain foundation, Lafayette Blvd. $150,000. Engineer and architect not announced.

Mich., Detroit—THEATRE and RECREATION—Owner, c/o P. Rossello, archt., 406 Congress Bldg., having plans prepared 2 story and basement, 80 x 400 ft., brick and steel, plain foundation, Northwest Section, $325,000.

Mich., Flint—MERCANTILE—Buckingham Clothing Co. had plans prepared by A. DesRosiers, 620 McKerchey Bldg., Detroit, 8 story and basement, 22 x 66 ft., rein.-con., brick and steel, plain foundation. $150,000.

Mich., Marquette—OFFICE—First Natl. Bank & Trust Co. or Uffinger, Foster & Brookwater, archts., 221 West 57th St., take bids about Dec. 1, 3 story and basement, 56 x 92 ft., rein.-con., brick, steel and stone, plain foundation. $150,000.

Mich., Mason—HOSPITAL, etc.—Ingham Co. having preliminary plans prepared 4 story and basement hospital and heating plant. $320,000. Engineer and architect not selected. Kidner & Rosenfield, 155 East 42nd St., New York City, consult. archts.

Mich., Owosso — HOTEL — Owner, c/o Owosso Chamber of Commerce, having plans prepared by B. K. Gibson, 624 South Michigan Ave., Chicago, Ill., 4 story, rein.-con., brick and steel, plain foundation. $200,000.

Mich., Royal Oak (Ind. br. Detroit)—APARTMENT—C. S. Klein, archt., 1016 Detroit Savings Bldg., Detroit, preparing plans 3 story and basement, 100 x 100 ft., limestone, brick and steel, plain foundation, here. $150,000. Owner's name withheld.

Ill., Chicago — APARTMENT — H. L. Morse, archt., 155 North Clark St., preparing plans and soon takes bids 3 story and basement, 50 x 100 ft., brick and stone, 4325-27 Vista Terrace. $150,000. Owner's name withheld.

Ill., Chicago—APARTMENT HOTEL—Elm Street Building Corp., c/o W. Bernhard & Co., archts., 820 Tower Court, having plans prepared 18 story and basement, 80 x 100 ft., rein.-con., brick and stone, 14 West Elm St. $1,500,000.

Ill., Chicago — APARTMENT — Syndicate, c/o Rebori, Wentworth, Dewey & McCormick, 332 South Michigan Ave., having plans prepared 13 story and basement, 70 x 80 ft., rein.-con., brick, steel, stone and tile, Banks and Astor Sts. $500,000.

Ill., Chicago—OFFICE and STORE—J. L. Simpson, c/o D. H. Burnham & Co., archts., 160 North La Salle St., having plans prepared 23 story and sub-basement, 50 x 125 ft., brick, steel and stone, Madison and Clark Sts. $2,500,000.

Ill., Chicago — SHELTER HOUSE and PAY STATION—South Park Comrs., 5700 Cottage Grove Ave., having plans prepared 1 and 2 story, 38 x 116 ft., near Monroe St. in Grant Park. $200,000. Linn White, 5700 Cottage Grove Ave., ch. engr.

Ill., Wilmette—CLUB—Shawnee Club, A. N. Page, pres., having plans prepared by D. H. Burnham & Co., 160 North La Salle St., Chicago, 3 story and basement, 100 x 300 ft., brick, incl. 40 x 100 ft. swimming pool, bowling, hand ball, etc., Lake and Michigan Sts. $700,000.

Ia., Des Moines—EXCHANGE—Northwestern Bell Telephone Co., R. P. Hapley, dist. mgr., 924 Grand Ave., having plans prepared by G. B. Prinz, 1037 Omaha Natl. Bank Bldg., Omaha, Neb., 9 story and basement, 132 x 132 ft., rein.-con., brick and stone, plain foundation. $800,000. Noted Nov. 3.

Ia., Marshalltown — HOTEL — Eppley Hotel Co., Hotel Fontenal, Omaha, Neb., E. C. Eppley, pres., having preliminary plans prepared 7 story and basement, rein.-con., brick, steel and terra cotta, here. $750,000. Private plans.

Neb., Omaha — HOTEL — Kitchin Hotel Co., having plans prepared by L. Daly, Peters Trust Bldg., 12 story, 350 room hotel, 14th St. $2,000,000.

S. D., Vermilion — ARMORY, GYMNASIUM, etc.—Hugill & Blatherwick, archts., 367 Boyce-Greeley Bldg., Sioux Falls, take bids about Feb. 1, 1 story and basement, 135x216 ft. armory and gymnasium, incl. swimming pool, etc., here, for University of South Dakota. $250,000. J .Berg, Pierre, state engr. Noted Oct. 27.

Mo., Jefferson City—OFFICE—State Hy. Comn. takes bids after Nov. 20, 3 story and basement, 70 x 155 ft., rein.-con. and stone, South Capitol Ave. $290,000. Edgerton Swartwout, 18 West 34th St., New York City, archts. Noted Sept. 15.

Mo., Moberly — Moberly Y. M. C. A. having preliminary plans prepared 3 or more story, rein.-con., brick and stone building. $250,000.

Mo., Nevada—HOTEL—C. A. Smith, archt., 800 Finance Bldg., Kansas City, making plans 7 story and basement, 75 x 150 ft., brick and rein.-con. hotel. To exceed $150,000. Owners name withheld.

Mo., St. Louis — APARTMENT — H. Rhodes, c/o F. G. Davis, archt., 2034 McCausland Ave., having preliminary plans prepared 8 story and basement, 98 suite, rein.-con., brick and stone, Cabanne and Belt Aves.

Tex., Amarillo—OFFICE—Atchison, Topeka & Santa Fe R.R. Co., M. C. Blanchard, ch. engr. (Western Lines), soon takes bids office building. $750,000. Noted Apr. 7.

Tex., Beaumont—HOTEL—E. G. Edson, c/o Edson Realty Co., having plans prepared by F. W. Steinman, 411 San Jacinto Life Bldg., and takes bids about Feb. 3, 14 story and basement, 120 x 120 ft., rein.-con. and brick, 125,000 sq.ft. floor space, plain foundation, Pearl and Liberty Sts. $1,500,000. Noted May 26.

Tex., Corpus Christi — OFFICE and PRINTING PLANT—W. E. Pope, c/o Corpus Christi Times, having plans prepared by E. K. Ahler, Corpus Christi, 8 story and part basement, rein.-con., brick and tile, plain foundation. $150,000.

Tex., McAllen—HOTEL—M. Nelson having plans prepared by H. P. Smith, c/o Natl. Bank Commerce Bldg., San Antonio, 10 story, 257 room, rein.-con., cement tile, stucco and stone hotel known as Unit 1. $325,000.

Tex., Point Isabel—HOSPITAL—A. W. McCandless, et al, Carbondale, Ill., plans 4 or 5 story hospital. $300,000. Engineer and architect selected after first of year.

Tex., San Antonio—THEATRE, OFFICE and STUDIO—Interstate Amusement Co., c/o K. Hoblitzelle, Dallas, and San Antonio, having plans prepared by J. Eberson, 212 East Superior St., Chicago, Ill. and 200 West 57th St., New York City, and takes bids about Mar. 1, 3 story and basement, 110 x 170 ft., rein.-con., brick, terra cotta, and steel, plain foundation, Houston St. between St. Marys and Navarro Sts. $2,500,000. Noted Aug. 18.

Tex., Stinnett — COURTHOUSE—Hutchinson Co., c/o W. R. Goodwin, judge, takes bids about Nov. 28, 3 story, rein.-con., brick and stone, courthouse. $300,000. W. C. Townes, 310 Blackburn Bldg., Amarillo, archt.

Tex., Vernon—COURTHOUSE—Wilbarger Co., c/o J. V. Townsend, judge, having sketches made by Voelcker & Dixon, Perk-ns-Snider Bldg., Wichita Falls, courthouse. $275,000.

Okla., Oklahoma City—APARTMENT—J. W. Hawk, 1019 1st Natl. Bank Bldg., having preliminary plans prepared by Hawk & Parr, 1019 1st Natl. Bank Bldg., 4 story and basement, 50 x 180 ft., rein.-con. and brick, plain foundation, 25th and Hudson Sts. $165,000.

Okla., Oklahoma City—AUTOMOBILE BUILDING—Eisle Motor Co., 10th and Robinson Sts., having preliminary plans prepared by G. A. Nichols, 110 North Harvey St., 3 story and basement, 160 x 162 ft., rein.-con. and brick, plain foundation, 10th St.

Okla., Okmulgee — LODGE — B.P.O.E. Lodge, E. Chislom, secy., having preliminary plans prepared 3 story and basement, rein.-con. and brick, plain foundation, Porter St. $165,000. Engineer and architect not selected.

Okla., Tulsa — APARTMENT — A. E. Aaronson, Court Arcade Bldg., having plans prepared 10 story and basement, 100 x 120 ft., rein.-con., steel and terra cotta, 9th and Boulder Sts. $500,000. Engineer and architects names withheld.

Okla., Tulsa — APARTMENT — A. E. Aaronson, Court Arcade Bldg., plans prepared 10 story and basement, 100 x 120 ft., rein.-con., steel and terra cotta, plain foundation, 9th and Boudder Sts. $500,000. Engineer and architect not selected.

Okla., Tulsa—OFFICE—A. M. Atkinson, archt., Midcontinent Bldg., soon lets contract 10 story and basement, 47 x 140 ft., rein.-con. and brick, plain foundation, Boston St., for Oklahoma Natural Gas Co., 117 West 4th St. $375,000. W. C. Roads, Court Arcade, engr. Noted Oct. 13.

Colo., Glenwood Springs—COUNTY—R. K Fuller, archt., Insurance Bldg., Denver, soon lets contract 4 story, 70 x 170 ft., rein.-con., brick, steel and terra cotta, plain foundation, for Garfield Co. $150,000.

Calif., Hollywood — CLUB — Hollywood Post 43, Amer. Legion, plans fireproof club, Highland Ave. $150,000.

Calif., La Jolla—APARTMENT—G. A. Bans, c/o F. W. Stevenson, archt., Spreckels Theatre Bldg., San Diego, had plans prepared 3 story and basement, rein.-con., Prospect and Jenner Sts. $250,000.

Calif., Los Angeles—APARTMENT—J. N. Conway, archt., Professional Bldg., preparing preliminary plans 4 story and basement, 120 x 120 ft., brick, concrete and steel, Beverly Dr. $300,000. Owners name withheld.

Calif., Los Angeles—APARTMENT—F. Horowitz, Stock Exch. Bldg., having plans prepared by A. W. Weitzman, 1017 Hibernian Bldg., 7 story, 114 x 121 ft., 8225 Sunset Blvd. $150,000.

Calif., Los Angeles — APARTMENT — Dwyer & Van Dorn, archt., Wilshire Studio Bldg., prepared plans 5 story and basement, brick, Gramercy Pl. Owner's name withheld.

Calif., Los Angeles—APARTMENT—A. Odson, c/o R. A. Hill, archt., Chester Wil-

Buildings—Commercial (Continued)

liams Bldg., had preliminary plans prepared 4 story and basement, brick, Hoover and Marathon Sts. $150,000.

Calif., Oakland — HOSPITAL — Oakland Hospital Building Corp., c/o W. H. Weeks, 369 Pine St., having preliminary plans prepared concrete hospital, East 14th St. and 27th Ave. $250,000.

Calif., Oakland—HOTEL and STORE—W. Lowe, archt., 354 Hobart St., preparing preliminary plans 6 story and basement, concrete hotel and stone building. $150,000. Owner's name withheld.

Calif., Oakland — STORE, APARTMENT and HOTEL — W. Lowe, archt., 354 Hobart St., preparing preliminary plans 11 story and basement, 190 room, concrete, Madison St. $250,000. Owner's name withheld.

Calif., Pasadena—APARTMENT—Hotel Maryland having preliminary plans prepared by E. B. Rust, Black Bldg., Los Angeles, 6 story and basement, probably rein.-con. To exceed $250,000.

Calif., San Francisco — APARTMENT — H. C. Baumann, archt., 251 Kearny St., preparing plans 12 story and basement, 150 room, rein.-con., Geary and Jones St. $350,000. Owner's name withheld.

Calif., San Francisco—APARTMENT—A. J. Horstman, archt., 110 Sutter St., preparing preliminary plans concrete apartment. $150,000. Owners name withheld.

Calif., San Francisco—HOTEL—A. J. Horstman, archt., 110 Sutter St., preparing preliminary plans 15 story and basement hotel. $400,000. Owner's name withheld.

Ont., Corbyville — STORAGE WAREHOUSE—Canadian Industrial Alcohol Co., had plans prepared by T. Pringle & Sons, 84 King St. E., Toronto, 9 story, 90 x 180 ft., rein.-con., brick and steel, plain foundation. $250,000.

Ont., Kitchener — APARTMENT — Independent Builders Ltd., Temple Bldg., Toronto, had plans prepared by H. G. Duerr, Lumsden Bldg., Toronto, 4 story and basement, 80 x 100 ft., rein.-con., brick, steel and stone, plain foundation. $150,000.

Ont., Ottawa—HOTEL—R. Blackburn will not construct 9 story and basement hotel, Sparks St. Dominion Govt. has taken site for park purposes. Noted Sept. 29.

Ont., Ottawa — HOTEL — Hockenbery Hotel System, 200 North 3rd St., Harrisburg, Pa., soon takes bids hotel, Metcalfe St., here, $800,000. Engineer and architect not selected.

Ont., Ottawa—HOTEL and THEATRE—General Organization Co., 10 North Clark St., Chicago, Ill., having plans prepared by D. R. Brown, associated archt., 285 Beaver Hall Hill, Montreal, Que., 300 room hotel, Elgin and Queen Sts., here.

Ont., Toronto—APARTMENT—D. Sher, 299 Crawford St., having plans prepared by Kaplan & Sprachman, 305 Dundas St. W., 4 story and basement, rein.-con., brick, steel and stone, plain foundation, Bloor St. W. near Alhambra Ave. $250,000.

Ont., Toronto—GARAGE and SHOW ROOM—Toronto Motor Car Co., 120 Adelaide St. W., having plans prepared by Hutton & Souter, 6 James St. S., Hamilton, 2 story and basement, 140 x 145 ft., rein.-con., brick and steel, plain foundation, Yonge St. and Orchard View Blvd. $150,000. Noted Oct. 27.

Ont., Toronto—GARAGE and SHOWROOM—A. D. Gorrie & Co., 354 Victoria St., having plans prepared by M. Brown, Confederation Life Bldg., 3 story, 150 x 150 ft., rein.-con., brick and steel, plain foundation, Gerrard St. E. $175,000. Noted Sept. 22.

Ont., Toronto—STORE and OFFICE—Robins Ltd., Natl. Bldg., having plans prepared by S. B. Coon & Sons, 4 St. Thomas St., and soon take bids 2 or 3 story and basement, 80 x 160 ft., rein.-con., brick and steel, plain foundation, incl. garage in basement, Bloor St. W. and Bay St. $150,000.

Bids Desired

Me., Bangor—STORE and OFFICE—Coe Estate, c/o G. W. Banton, 116 Hammond St., taking bids 3 story and basement, 155 x 175 ft., brick, plain foundation, Main, Cross and Columbia Sts. $150,000. Crowell & Lancaster, Exch. Bldg., archts. Noted Nov. 3.

N. H., Keene—HOTEL—Nov. 25, by M. E. Georges, c/o Haynes & Mason, archts., 280 Main St., Fitchburg, Mass., brick and steel addition, to Hotel Ellis, here. $150,000. Noted Nov. 10.

Mass., Newton—THEATRE—See "Contracts Awarded."

Mass., Somerville—STORE and OFFICE—See "Conrtacts Awarded."

Conn., New Haven—See "Unclassified."

Conn., Stamford—OFFICE—Nov. 25, by Gruber & Mernstein, c/o F. Urso, archt., Spelke Bldg., 432 Main St., 2 and 4 story, 55 x 75 ft. and 55 x 80 ft., brick and steel, Forest and Prospect Sts. $150,000. Noted Oct. 13.

N. Y., Brooklyn — APARTMENTS — See "Contracts Awarded."

N. Y., Brooklyn — THEATRE — J. N. Linn, archt., 371 Fulton St., taking bids theatre, 1,700 seating capacity, Whitney Ave., Plum and 1st Sts., Gerritsen Beach, here, for Gerritsen Theatre Corp., c/o architect.

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. J., East Orange—APARTMENT—See "Contracts Awarded."

N. J., Englewood—APARTMENT—C. G. Eicholz, Jr., archt., 960 Bergenline Ave., Union City, taking bids general contract 5 story and basement, 50 x 128 ft., brick and steel, plain foundation, Hudson Ave., for J. English, Palisade Ave. $190,000. Noted Nov. 10.

N. J., Newark — APARTMENT — See "Contracts Awarded."

N. J., Jersey City—APARTMENT—See "Contracts Awarded."

N. J., Passaic — APARTMENT — See "Contracts Awarded."

N. J., Summit — APARTMENT — Stuyvesant Constr. Co., 972 Broad St., Newark, taking bids 3 story and basement, brick and steel, plain foundation, 15 Norwood Ave. $225,000. Kasoff & Flatt, 164 Market St., Newark, archt. Noted Oct. 27.

Ind., South Bend—OFFICE—W. Happ, 224 Sherland St., taking bids 6 story, rein.-con., brick, steel and stone, Michigan and Jefferson Sts. $200,000. E. W. Yong, 807 Sherland St., archt.

Mich., Detroit—OFFICE, THEATRE and GARAGE—Dec. 1, by A. Kahn, archt., 1000 Marquette Bldg., 10 and 25 story and basement, rein.-con., brick and steel, caisson foundation, West Grand Blvd., for New Center Development Co., General Motors Bldg.

Mich., Pontiac — APARTMENT — See "Contracts Awarded."

Ill., Chicago—APARTMENT—Suburban Realty Trust, Bankers Bldg., taking bids 3 story and basement, 125 x 141 ft., brick and stone, 80th St. and Merrill Ave. $165,000. Lindblad & Carlson, 155 North Clark St., archts.

Ill., Evanston — APARTMENT — A. E. Anderson, 30 North La Salle St., Chicago, taking bids 3 story and English basement, 150 x 170 ft., 650 Hinman Ave., here. $350,000. C. J. and R. H. Johnson, 5153 North Clark St., Chicago, archt.

Mo., Kansas City—OFFICE—Nov. 21, by Hoit, Price & Barnes, 800 Davidson Bldg., 13 story, 96 x 125 ft., brick, terra cotta and rein.-con. addition, for Southwestern Bell Telephone Co., Telephone Bldg.

Mo., Kansas City—HOTEL—See "Contracts Awarded."

Tex., Stinnett — COURTHOUSE — Nov. 26, by W. R. Goodwin, judge Hutchinson Co., 3 story, part basement, brick and rein.-con., plain foundation, courthouse, here. Archts. est. $250,000. W. C. Townes, 310 Blackburn Bldg., Amarillo, archt.

Calif., Bakersfield — HOSPITAL — F. E. Smith, clk. Kern Co., taking bids and open same about Dec. 12, 3 story, 45 x 220 ft., brick, steel and concrete wing. $150,000. C. H. Biggar, Bank of Italy Bldg., archt. Noted Sept. 29.

Calif., Los Angeles—APARTMENT—W. W. Smith, archt., 1242 Keniston Ave., taking bids 4 story and basement, brick and rein.-con., North Gramercy Pl. $150,000. Owners name withheld.

Calif., San Francisco—APARTMENT—One Thousand Fifty-One Investment Co., c/o A. H. Larsen, archt., 47 Sutter St., taking bids 6 story, basement and sub-basement, concrete and steel O'Farrell and Franklin Sts. $200,000. Noted Apr. 28.

Calif., San Francisco—APARTMENT—See "Contracts Awarded."

Contracts Awarded

Mass., Boston — COMMERCIAL — New England Confectionery Co., 253 Summer St., altering and constructing 6 story and basement, rein.-con., brick and steel addition to Building, plain foundation, Summer and Belcher Sts., to C. A. Dodge Co., 2 Erie St., Cambridge. Archts. est. $150,000.

Mass., Boston — OFFICE — Woodstock Trust, c/o H. F. Kellogg, archt., 378 Stuart St., 14 story and basement, 150 x 170 ft., rein.-con., brick and steel, plain foundation, 89 Broad St., to Turner Constr. Co., 178 Tremont St. To exceed $150,000. Noted Sept. 15.

Mass., Brookline (br. Boston)—APARTMENT—M. Greenfield, 10 Leston St., Dorchester, 3 story and basement, brick and stone, plain foundation, James St., to B. Meshon, 119 Hutchins St., Roxbury. Archts. est. $150,000-$160,000.

Mass., Lawrence — BANK — Merchants Trust Trust Co., H. L. Sherman, pres., 3 story and basement, rein.-con., brick, steel and stone, plain foundation, Essex and Appleton Sts., to L. E. Locke & Son, 801 Bay State Bldg. Archts. est. $250,000.

Mass., Lawrence—THEATRE—J. Campopiano, 8 Jackson Court, 1 story and basement, 50 x 100 ft., brick and steel, concrete foundation, Common St., to A. E. Steinert, 714 Bay State Bldg. Archts. est. $150,000-$160,000.

Mass., Newton (Ind. br. Boston) — THEATRE and STORE — Abramson & Bennett, Taylor Bldg., Auburn St., Auburndale, will build 1 and 2 story and basement, 100 x 200 ft., brick, steel and stone, plain foundation, Lexington St., Auburndale Sect., here. $150,000 or more. Work will be done by separate contracts. J. A. Tuck, 164 Lincoln St., Boston, archt. Noted Nov. 3.

Mass., Northampton — HOME — White Eagles Home Assn., c/o H. Ludorf, archt., 418 Asylum St., Hartford, Conn., 2 story and basement, brick and stone, plain foundation, Peel and Strong Ave., here, to Slorian & Woytonik, 44 Holyoke St., Easthampton. Archts. est. $150,000.

Mass., Somerville (br. Boston)—STORE and OFFICE—Snider & Druker, 18 Tremont St., Boston, will build 3 story and basement, 90 x 120 ft., brick and stone, plain foundation, Chester Ave. and Elm St. $150,000. Work will be done by separate contracts. Eisenberg & Feer, 46 Cornhill, Boston, archts.

Conn., New Haven—APARTMENT—H. Labov, Jr., 5th St., will build 3 story, brick and steel, 50 x 150 ft., 5th St. and Whitney Ave. $240,000. Private plans.

N. Y., Brooklyn — APARTMENTS — Jonas Constr. Co., 136 Lawrence St., will build two 6 story, 187 x 247 ft. apartments, Nostrand Ave. and Linden Blvd. $2,000,000. Work will be done by separate contracts. Gronenberg & Leuchtag, 1385 Bway., New York City, archts.

N. Y., New York — APARTMENT — Silvester Building Corp., 400 Fordham Rd., will build 6 story and basement, 103 x 138 ft., apartment, 168th St. and Franklin Ave. $200,000. Work will be done by separate contract. Bates & Franklin, 2526 Webster Ave., archts.

N. Y., New York—APARTMENT—Bonagur Constr. Co., c/o De Rose & Cavalieri, archts., 370 East 149th St., will build 5 story and basement apartment, Erickson Pl. and Zullette Ave. $250,000. Work will be done by separate contracts.

N. Y., New York—APARTMENT—Eton Holding Corp., 15 story and basement apartment, 1st Ave. and 55th St., to H. S. and S. O. Crystal, 47 West St. Archts. est. $1,300,000.

N. Y., New York — APARTMENT — Gildember Realty Corp., Olinville and Burke Aves., will build 6 story and basement, 75 x 157 ft., brick and timber, Mahan Ave. and Middleton Rd. $175,000. Work will be done by separate contracts. G. Swiller, 4215 3rd Ave., archt.

N. Y., New York—APARTMENT—B. Hoffman, 145 East 51st St., 13 story and basement, 82 x 91 ft., 132 East 79th St., to G. Richard Davis, 10 East 41st St. Archts. est. $750,000.

N. Y., New York — APARTMENT — Thirty-Three Riverside Drive, Inc., 2095 Bway., will build 16 story and basement 104 x 113 ft., brick and steel, 31 Riverside Dr. $1,150,000. Work will be done by separate contracts. G. F. Pelham, 570 7th Ave., archt.

N. Y., New York—APARTMENT—Six to Sixteen West Seventy Seventh Street Corp., 9 East 40th St., will build 15 story, 82 x 150 ft., apartment, 6 West 77th St. $1,225,000. Work will be done by separate contracts, under supervision of N. Korn, archt., 110 West 40ht St.

N. Y., New York—OUT-PATIENT DEPARTMENT and DORMITORY — Bd. Trustees Bellevue & Allied Hospitals, 416 East 26th St, general contract out-patient department and female dormitory, at New Bellevue Hospital, 26th St. and 1st Ave., to Kenny Bros., Inc., 23 Old Bway., $1,239,000. Noted Oct. 20.

Buildings—Commercial (Continued)

N. Y., New York — TERMINAL — V. Green Constr. Co., 45 West 34th St., will build 12 story and basement terminal building, Hudson St. between Canal and Desbrosses Sts. $800,000. Work will be done by separate contracts. Renwick, Aspinwall & Goad, 8 West 40th St., archts.

N. J., Bayonne—APARTMENT—Irving Constr. Co., 249 Bway., will build 5 story and basement, 75 x 100 ft., brick and steel, plain foundation, 81-85 33rd St., here. $150,000. Work will be done by separate contract. M. Kraut, 14 Journal Sq., Jersey City, archt. Noted Oct. 27.

N. J., East Orange — APARTMENT — Lenox Finance Co., L. Koppell, pres., 786 Broad St., Newark, will build 4 story and basement, 120 x 155 ft., brick and steel, plain foundation, 148 South Munn Ave. $200,000. E. V. Warren, Essex Bldg., Newark, archt.

N. J., Jersey City—APARTMENT—Advance Development Corp., c/o C. I. Goldberg, archt., 437 Bway., Bayonne, will build 5 story and basement, 50 x 150 ft., brick and steel, plain foundation, 149 Bentley Ave. $150,000. Work will be done by separate contracts. Noted Sept. 29.

N. J., Jersey City—APARTMENT—B. Clott, 129 Stevens Ave., will build 4 story and basement, 75 x 90 ft., brick and steel, plain foundation, 22-26 Lexington Ave. $150,000. Work will be done by separate contracts. M. Kraut, 14 Journal Sq., archt. Noted Nov. 17.

N. J., Jersey City—APARTMENT—Fairmount Building Corp., c/o M. Kraut, archt., 14 Journal Sq., will build 5 story and basement, 100 x 150 ft., brick and steel, plain foundation, 329-35 Fairmount St. $250,000. Work will be done by separate contracts. Noted Oct. 20.

N. J., Newark—APARTMENT—Pomerstantz & Greenhouse, 409 7th Ave., will build 3 story and basement, 90 x 100 ft., brick and steel, plain foundation, 1-7 North 12th St. $150,000. Work will be done by separate contracts. H. M. Veix, 738 Broad St., archt.

N. J., Newark—ARENA—Newark Garden Corp., 111 Bway., New York City, J. W. Allen, pres., general contract, brick and steel, plain foundation on 250 x 320 ft. site, 540-46 Ogden St., to E. M. Waldron, Inc., 27 Central Ave. Archts. est. $1,000,000.

N. J., Passaic—APARTMENT—R. Pink, 64 Van Buren St., will build 4 story and basement, 100 x 115 ft., brick and steel, plain foundation, 395-403 Passaic Ave. $200,000. Work will be done by separate contracts. Preiskel Skvarla, 591 Main Ave., archts. Noted Nov. 10.

Md., Henryton — ADMINISTRATION — Buckler & Fenhagen, archts., 325 North Charles St., Baltimore, 3 story and basement, irregular shaped, brick and steel, here, to North-Eastern Constr. Co., Lexington Bldg., Baltimore, for Maryland Tuberculosis Hospital. Noted Oct. 27.

Md., Mt. Wilson—HOSPITAL—Buckler & Fenhagen, archts., 325 North Charles St., Baltimore, 2 story and basement, irregular shaped, brick, steel and stone, here, for State Sanitarium, to North-Eastern Constr. Co., Lexington Bldg., Baltimore. Noted Oct. 27.

La., New Orleans—HOSPITAL—Presbyterian Hospital, 5 story, limestone, brick and steel, wood pile foundation, known as James M. Batchelor Building, Carondelet St., to T. H. Brockman, Hibernia Bldg. Archts. est. $400,000. Noted Nov. 3.

Miss., Tupelo—THEATRE, MERCANTILE and OFFICE—Moore & Gregory, constructing 7 story building, containing 18 offices, opera house 1,500 seating capacity, etc., to Standard Constr. Co., Meridian, $200,000.

Tenn., Memphis—THEATRE—Orpheum Amusement Co., 190 North State St., Chicago, Ill., 3 story, 80 x 117 ft., South Main and Beale Sts., here, to Kaiser-Ducett Co., Joliet, Ill. Archts. est. $750,000. Noted June 13.

Ky., Louisville—CLUB—Pendennis Club, 332 West Walnut St., 4 story and basement, 113 x 130 ft., rein.-con., brick and steel, plain foundation, Walnut St., to Wortham Constr. Co., Starks Bldg. Archts. est. $300,000. Noted Mar. 24.

Ky., Louisville—THEATRE and STORE —J. F. Russel & Co., (owners and contractors) Brook and Bloom Sts., will build 2 story and balcony, 1,000 seating capacity, rein.-con., brick and steel, 41st and Market Sts. $150,000.

O., Canton—APARTMENT—P. Belden, et al, 723 14th Ave. N. W., general contract 2 story and basement, brick and stone, Market Ave. N., to E. Crump, 4031 Bigelow Blvd., Pittsburgh, Pa., $156,000.

O., Cincinnati — HOSPITAL — Hamilton Co., Court House, 3 story and basement, 40 x 208 ft., brick and rein.-con., plain foundation, Springfield St., to D. Meinken & Son, 2143 Barnard St., $250,000. Noted Sept. 20.

O., Cincinnati—OFFICE—Amer. Druggist Fire Insurance Co., Mercantile Library, 15 story and basement, 82½ x 100 ft., brick and rein.-con., plain foundation, Central Parkway, to M. Penker & Son, 123 Valencia St., $706,000.

Ind., Hammond — APARTMENT — D. Posner, 1436 Hohman Ave., general contract 3 story and basement, brick and stone, 1430 Hohman Ave., to Fridstein & Co., 111 West Washington St., Chicago, Ill. Archts. est. $150,000.

Mich., Ann Arbor—HOTEL—L. A. Snell, c/o L. Kamper, archt., 3729 Cass Ave., Detroit, 4 story and basement, 88 x 132 ft., rein.-con., brick and steel, plain foundation, Division St., here, to Everett Winters, 1651 East Grand Blvd., Detroit. Archts. est. $500,000. Noted Jan. 13.

Mich., Detroit—THEATRE and STORE —C. W. Brandt, archt., 2111 Woodward Ave., 2 story and basement, rein.-con., brick and steel, plain foundation, Michigan Ave., to Krieghoff Co., 6661 French Rd., for Cass Michigan Corp., 1208 Francis Palms Bldg. Archts. est. $150,000. Noted Nov. 3.

Mich., Pontiac — APARTMENT — C. F. Erb, 17½ Lawrence St., will build 4 story and basement, brick and steel, plain foundation, State St. Archts. est. $150,000.

Ill., Chicago — APARTMENT, OFFICE and STORE—Holabird & Roche, archts., 104 South Michigan Ave., general contract 6 story and basement, 100 x 200 ft., rein.-con., Michigan Ave. and Chestnut St., to Heggeman-Harris Co., 431 North Michigan Ave., for Syndicate, c/o Frankenstein & Co., 110 South Dearborn St. Noted Nov. 10.

Ill., Chicago—APARTMENT HOTEL—Forty-Three Hundred Forty-Two Washington Boulevard Building Corp., 134 North La Salle St., general contract 5 story and basement, 25 x 180 ft., rein.-con., brick and terra cotta, 4342 West Washington Blvd., to Wallach Bros., 134 North La Salle St. Archts. est. $250,000.

Ill., Chicago—APARTMENT and STORE —E. L. Cook, c/o Ohrenstein & Hild, archts., 222 East Ontario St., masonry contract 3 story building, Milwaukee and Kenneth Aves., to D. M. Reid, 140 South Dearborn St.; carpentry contract, to Little & Vwiers, 8021 South Loomis St.; plumbing, to M. J. Carboy Co., 405 North Des Plaines St.; and heating, to Randall Heating Co., Chicago. Archts. est. $350,000.

Ill., Park Ridge—THEATRE, STORE and OFFICE—Zook & McCaughey, archts., 222 West Adams St., Chicago, general contract 2 story, basement and tower, 150 x 165 ft., rein.-con., brick and steel, Prospect and Park Aves., here, to Mutual Constr. Co., 2532 Warren Ave., Chicago, for W. H. Malone. Archts. est. $450,000. Noted July 14.

Ia., Des Moines — GARAGE — E. W. Brown, 3 story, 160 x 200 ft., rein.-con., brick and steel addition, plain foundation, to C. Weitz Sons, 713 Mulberry St. $250,000.

Mo., Kansas City—HOTEL—G. H. McCandless, 400 Victor Bldg., will build 8 story and basement, brick and rein.-con., Ward Parkway and Wornall Rd., by day labor. $500,000. A. A. Gentry, Dunlap Bldg., archt.

Mo., St. Louis—APARTMENT—H. M. Edmunds (owner and contractor), 114 North 7th St., will build 16 story and basement, 110 x 213 ft., brick, stone and rein.-con., 4481 West Pine Blvd. $1,000,000.

Mo., St. Louis—APARTMENT—Marget Realty Co., 904 Chestnut St., Skinker Apartment, 3 story and basement, 60 x 240 ft., rein.-con., brick and terra cotta, Skinker Ave., to Jacob Rubin & Sons, 904 Chestnut St. Archts. est. $300,000.

Ark., Bentonville—COURTHOUSE—Benton Co., c/o W. R. Edwards, judge, general contract 2 story, gallery and basement, 74 x 120 ft., rein.-con., brick and cut stone, to Messenger & Dalton, Pittsburg, Kan., $185,000. Noted Oct. 13.

Tex., Amarillo — MAUSOLEUM — Community Mausoleum Co., M. C. Nobles, dir., mausoleum, Carthage stone and Vermont green vein marble, to Underhill Constr. Co., Amarillo, approximately $175,000.

Okla., Muskogee — COURT HOUSE — Muskogee Co., 4 story and basement, 78 x 135 ft., rein.-con. and brick, plain foundation, Cherokee St., to Manhattan Constr. Co., Muskogee, $325,250. Noted Oct. 13.

Calif., Burbank — STUDIO — Victory Studio, Inc., Hollywood, studio, incl. administration building, power plant, 2 enclosed stages, etc., on 30 acre site, at Victory and Hollywood Way, here, to J. H. Woodworth & Sons, 200 East Colorado St., Pasadena, $1,000,000. Noted Nov. 3.

Calif., Glendale—APARTMENT—L. Robman, 4 story and basement, brick, Glendale Blvd., to M. Soafer, 512 California St., $155,000.

Calif., Glendale—STORE and APARTMENT—F. M. Hack, 4 story and basement, brick, Glendale Blvd., to Hill & Petos, Pershing Sq. Bldg., Los Angeles. Archts. est. $150,000.

Calif., Long Beach—MEDICAL—Medico-Dental Bldg. Co., W. P. Wilson, pres., 8 story, 50 x 150 ft., rein.-con., Pine Ave. and 8th St. to K. L. Colburn, Pacific Southwest Bank Bldg., Pasadena. $400,000.

Calif., Los Angeles—APARTMENT—M. Fink, 4 story and basement, brick, South Burlington Ave., to Hill & Petos, Pershing Sq. Bldg. Archts. est. $150,000.

Calif., Los Angeles—APARTMENT—D. C. Patterson, 71 x 170 ft., brick, to O. Houpt, 4040½ South Harvard St. $250,000.

Calif., Los Angeles—APARTMENT—L. M. Taylor, 1410 Pointsetta Pl., 4 story and basement, 50 x 150 ft., brick, West 14th St., to J. P. Taylor 254 Southwestern Ave. $150,000.

Calif., Los Angeles — APARTMENT — J. Westley, 4 story and basement, brick, Bronson Ave., to Hill & Petos, Pershing Sq. Bldg. Archts. est. $150,000.

Calif., Los Angeles—APARTMENT—D. Habes, 6 story and basement, 75 x 120 ft., brick and steel, to B. Gagan, 2205 5th Ave., approximately $165,000.

Calif., Los Angeles — APARTMENT — Welburman Co., 1114 Stock Exch. Bldg., 5 story and basement, brick, South Loma Dr., to Wright Co., 3875 Wilshire Blvd., approximately $165,000.

Calif., Los Angeles — HOTEL — C. L. Hill, archt., 2690 North Beachwood Dr., 2 and 3 story, 270 x 300 ft., brick and tile, Roosevelt Highway at Dana Point, to Western Constr. Co., 3105 Beachwood Dr., $350,000. Noted Aug. 25.

Calif., Norwalk—PATIENTS—G. B. McDougall, state archt., Forum Bldg., Sacramento, general contract patients building, rein.-con., to H. Mayson, 229 Euclid Ave., Long Beach, $139,375. Noted Sept. 29.

Calif., Palo Alto—STORE and OFFICE—Hare, Brewer & Clark, University Ave., 4 story and basement, concrete, to W. P. Goodenough, 310 University Ave. Noted Nov. 3.

Calif., San Francisco—APARTMENT—J. D. Hannah, 825 Sansome St., will build 6 story and basement, rein.-con., Pacific Ave., by day labor. $150,000. E. E. Young, 2002 California St., archt.

Calif., Stockton—HOSPITAL—State Dept. Pub. Wks., Div. of Architecture, general contract Farm Cottage Buildings 5, 6 and 7, 2 story, rein.-con., to J. E. Branagh, 184 Perry St., Oakland, $153,000. Noted Nov. 3.

Ont., Toronto—APARTMENT HOTEL—Ramsey Stewart & Co., Northern Ontario Bldg., general contract Queens Park Plaza, 15 story and basement, 100 x 120 ft., rein.-con., brick, steel and stone, plain foundation, Avenue Rd. and Bloor St. W., to Yolles & Rotenberg, 85 Richmond St. W.; excavation, to Lioni & Co., 1411 Dufferin St. Archts. est. $2,000,000. Noted

B. C., Vancouver—APARTMENT—Vancouver Holdings, Ltd., 402 Pender St. W., 5 story and basement, 60 x 110 ft., rein.-con. and stucco, plain foundation, Nicola and Pendrell Sts., to Dominion Constr. Co., Ltd., 509 Richards St., $160,000.

Buildings—Industrial

Proposed Work

N. H., Nashua — PUBLISHING and PRINTING PLANT — Telegraph Publishing Co., 52 Main St., plans 2 story, brick, plain foundation, Main St. $40,000 or more. Hutchins & French, 11 Beacon St., Boston, Mass., archts.

Mass., North Woburn (mail Woburn)—PLANT—Hopkinson Jappaning Co., c/o M. Kaplin, 123 Gardner Rd., Brookline, plans rebuilding plant, recently destroyed by fire, here. $100,000. Engineer and architect not selected.

Mass., Watertown—CLEANING PLANT —Alexander Bros., 155-157 Auburn St., had plans prepared by A. D. Bogosian, 169 Jewett St., Providence, R. I., 2 story, brick, plain foundation, Grove St. and Calvin Rd. $40,000.

Mass., Worcester—SHOWROOM, SERVICE and REPAIR GARAGE—Nash Auto-

Buildings—Industrial (Continued)

mobile Agency, 747 Main St., having plans prepared by Frost Chamberlain & Edwards, 390 Main St., brick, Park Ave. $75,000.

Conn., Norwalk — FACTORY — E. H. Hotchkiss Co. 6-12 Hoyt St., having plans prepared by Ballinger Co., 105 South 12th St., Phila., Pa., brick factory unit, Hoyt St. $75,000.

Conn., South Norwalk — MACHINERY FACTORY—Nash Eng. Co., Wilson Rd., plans addition. $40,000 or more. Engineer and architect not selected.

N. Y., Brooklyn—CEMENT PRODUCTS FACTORY — Semloh Constructing Co., Kings Highway, plans cement products factory, 69th St. and Avenue Y. $40,000. Engineer and architect not selected.

Pa., Phila. — FACTORY — E. H. Poggi, archt., Equitable Bldg., soon lets contract 2 story and basement, 25 x 75 ft. and 107 x 125 ft., rein.-con., and brick, plain foundation, 1238-46 Belmont Ave., for York Ice Mchry. Co., c/o architect.

Md., Baltimore — MILL and WAREHOUSE — Baltimore Copper Smelting & Rolling Co., Canton, plans 1 story, 108 x 396 ft., steel mill, 5th Ave. and 8th St., and 1 story, 42 x 140 ft., steel warehouse, Clinton Ave. and Fourth St. $165,000.

La., Baton Rouge—CHEMICAL PLANT—Louisiana Chemical Co., plans plant addition. $250,000.

La., Lake Charles—ICE PLANT—Gulf States Utilities Co., C. H. Meeks, supt. plant, having preliminary plans prepared 80 ton capacity ice plant, brick, steel and concrete, here. $150,000 incl. machinery. Private plans.

La., New Orleans — BAG FACTORY — Werthan Bag Co., c/o M. and J. Werthan, 1200 Clinton St., Nashville, Tenn., plans 2 story, 112 x 175 ft., brick and steel, 40,000 sq.ft. floor space, Front and Thalia Sts. $150,000.

Tenn., Cookeville — HYDRO-ELECTRIC PLANT—City having plans prepared 1,000 h.p. addition to hydro-electric plant, impounding reservoir and 30 ft. concrete. $200,000. J. A. Switzer, Knoxville, engr.

Tenn., Nashville—OXYGEN PLANT—Kentucky Oxygen-Hydrogen Co., Logan and Goss Sts., plans oxygen plant, 25th and Cedar Sts. $150,000.

O., Canton—STORAGE—Everhard Mfg. Co., 1592 7th St. S. W., soon takes bids 1 story and basement, 72 x 102 ft. addition. $40,000.

Ind., Evansville — SERVICE and GARAGE—F. J. Friday, c/o F. L. Schlotter, archt., 113½ Upper 4th St., having plans prepared 50 x 144 ft., brick and steel, Indiana Ave. near Main St. $46,000. Krauss Laundry Co., 1307 Main St., lessee.

Ind., Ft. Wayne — FACTORY — Truck Eng. Co., c/o R. Spaulding, East Pontiac St., having plans prepared by G. Mahurin, 425 Standard Bldg., 1 story, 60 x 100 ft., brick and steel factory. $40,000.

Ind., Ft. Wayne — PAPER PLANT — Fisher Bros. Paper Co., 120 West Columbia St., having plans prepared by A. M. Strauss, 415 Cal-Wayne Bldg., 3 story, 40 x 150 ft., rein.-con. and brick, Clinton and Columbia Sts. $46,000.

Mich., Detroit—GARAGE—Detroit Garages, Inc., 510 Cass Ave., purchased site and plans 10 story, 90 x 110 ft., and 50 x 130 ft., rein.-con. and brick, plain foundation, Cass Ave. $400,000. Engineer and architect not announced.

Mich., Saginaw—ICE CREAM PLANT—M. & B. Ice Cream Co., Water and Johnson Sts., having plans prepared by S. C. Allen, 204 Eddy St., 3 story, 60 x 85 ft., rein.-con. and brick, plain foundation, Water St. $50,000.

Minn., Cloquet—FACTORY—Northwestern Paper Co. plans group 2 and 3 story, brick and steel factory buildings. $1,000,000. Jacobson Eng. Co., 904 Plymouth Bldg., Minneapolis, engrs.

Neb., Harvard—LIGHT PLANT—Grant, Fulton & Letton, engrs., 525 South 13th St., Lincoln, preparing plans complete light plant, incl. Diesel engines, for City. $59,000 bond election soon for same.

Mo., St. Louis—CLEANING and DYEING—Star Dyeing & Cleaning Co., 2515 North Grand Blvd., soon takes bids 2 story and basement, 74 x 91 ft., rein.-con., brick, stone and terra cotta, 2515 North Grand Blvd. $60,000. F. A. Ludewig & Co., 509 Dickman Bldg., archts.

Tex., Borger (Plemons P. O.)—GASOLINE REFINERY—Phillips Petroleum Co., Bartlesville, Okla., purchased plant and properties of Alamo Refining Co., here, and plans enlarging same from 2,000 bbl. to 7,500 bbl. daily capacity, etc. $150,000. Private plans. Noted Nov. 3.

Tex., Corpus Christi — PRINTING PLANT—See "Buildings—Commercial."

Tex., Houston—WAREHOUSE—Universal Terminal Warehouse, 1006 Washington St., having plans prepared by R. D. Steele, 1st Natl. Bank Bldg., 2 story, 150 x 257 ft., warehouse, Washington and Elder Sts. $150,000.

Tex., New Braunfels—GAUZE PLANT—Texas Gauze Mills, c/o A. W. C. Bergfield, having plans prepared and takes bids after Jan. 1, 120 x 280 ft., steel and concrete plant. $75,000. Private plans.

Tex., San Benito — BRICK PLANT — Hinkly Brick & Tile Co., c/o W. B. Hinkly, plans enlarging brick plant, La Palomo Rd., near here. $50,000. Private plans.

Okla., Ponca City—REFINERY, etc.—Empire Refineries, Batesville, plans refinery improvements and equipment, here. $850,000. Private plans.

Wash., Spokane—HYDRO-ELECTRIC PLANT—Inland Pulp & Paper Co., Millwood, takes bids after Dec. 1 (selected list of contractors), 2 hydraulic electric plants, incl. dams, power houses, canal, etc., on Spokane River, 8 mi. east of here. Holland, Ackerman & Holland, 53 West Jackson Blvd., Chicago, Ill., engrs.

Calif., Huntington Park (br. Los Angeles) —FACTORY—Ensign Carburetor Co., 217 East 17th St., Los Angeles, plans factory, on approximately 100x200 ft. site, Alameda and Florence Aves., here. $50,000. Engineer and architect not selected.

Calif., Richmond — DISTRIBUTING PLANT — Petroleum Securities Co., Petroleum Securities Bldg., Los Angeles, plans dsitributing plant, Pt. Potrero, here. $2,000,000. Eng. Dept. of Owners, engrs.

Calif., San Francisco — FACTORY — Simon Mattress Mfg. Co., 1900 16th St., plans probably rein.-con., Yosemite Ave. near Armstrong Ave. To exceed $40,000. Engineer and architect selected soon.

Ont., Hamilton—BAKERY and WAREHOUSE—Ideal Bread Co., Sandford Ave. S., had plans prepared by S. Comber, 284 Beaver Hall Hill, Montreal, Que., and soon lets contract 3 story and basement, 80 x 120 ft., rein.-con. and brick, plain foundation, King St. and Sanford Ave. $150,000. Noted Feb. 10.

Ont., Leamington — FACTORY — H. J. Heinz & Co. having plans prepared 3 story and basement, 125 x 185 ft., rein.-con., brick and steel addition, plain foundation. $175,000. Private plans. Noted Oct. 27.

Ont., London — BOTTLING PLANT — John Labatt Ltd., Simcoe St., E. Burke, mgr., having plans prepared by J. Schultz, 1370 Main St., Buffalo, N. Y., bottling plant addition. $50,000.

Ont., London — FACTORY — Supersilk Hosiery Mills, G. Thompson, mgr., had plans prepared by L. G. Bridgeman, Royal Bank Bldg., 1 story, 100x100 ft., brick, Florence St. $75,000.

Ont., New Toronto — RUBBER FACTORY — Goodyear Tire & Rubber Co. of Canada had plans prepared 4 story and basement, 100 x 125 ft., rein.-con., brick and steel addition, Lake Shore Rd. $175,000. Private plans.

Bids Desired

Me., Wilton—PLANT—Wilton Wollen Co. taking bids 2 and 3 story and basement, 50 x 60 ft. and 70 x 110 ft., brick, steel and wood, addition, plain foundation, Lockwood, Greene & Co. Inc., 24 Federal St., Boston, engrs.

Mass., Brockton — REFRIGERATION PLANT — Cudahy Packing Co., 37 Merchants Row, Boston, taking bids 1 and 2 story, 50 x 150 ft., brick and wood, plain foundation, North Montello St. $50,000. Private plans.

Mass., Cambridge (Boston P. O.) — STOREHOUSE — Lever Bros. Co., 164 Bway., taking bids 5 story, 80 x 165 ft., rein.-con. and brick addition, plain foundation. To exceed $40,000. C. T. Main, 201 Devonshire St., Boston, engr.

Mass., Haverhill — FACTORY — Owner, c/o C. V. Badger, 191 Merrimack St., taking bids 2 story, 60 x 110 ft. acid manufacturing factory, rein.-con. and steel, plain foundation, $65,000. Noted Nov 3.

Mass., Roxbury (Boston P. O)—ELECTRIC SUB-STATION — Edison Electric Illuminating Co., 39 Boylston St., Boston, taking new bids 1 story, 45 x 75 ft. rein.-con., brick and steel plain foundation, Humboldt Ave. $40,000. Former bids rejected. Bigelow & Wadsworth, 120 Tremont St., Boston, archts. Noted June 2.

Mass., West Springfield (br. Springfield) —POWER PLANT—Boston & Albany R.R., G. A. Kirley, ch. engr., South Sta., Boston, taking bids 1 story, 50 x 115 ft., brick, steel and stone, plain foundation, here. To exceed $40,000. Densmore, Leclear & Robbins, Park Sq. Bldg., Boston, archts. Noted Sept. 22.

Mass., Worcester—WAREHOUSE—C. E. Strehan, engr., 112 West 42nd St., New York City, taking bids 2 story, 145 x 335 ft., rein.-con., 191 Hudson St., here for Melville Shoe Corp.,. 191 Hudson St., New York City. To exceed $150,000.

N. J., Hoboken — FUR RENOVATING FACTORY — See "Contracts Awarded."

Pa., Chester—FACTORY—Nov. 22 by Ballinger Co., archts., 12th and Chestnut Sts., Phila., 3 story and basement, 59 x 140 ft., rein.-con. and brick, plain foundation, 4th and Engle Sts., for H. H. Ward, 4th and Engle Sts. Noted Nov. 3.

Pa., Clearfield—KILNS—See "Contracts Awarded."

Pa., McKeesport — PLANT — Columbia Radiator Co. taking bids 1 story, 80 x 200 ft., brick and steel addition, here. $50,000. Private plans.

Pa., Phila. — FACTORY — Nov. 23, by Ballinger Co., archts., 12th and Chestnut Sts., 1 and 3 story and basement, 52 x 91 ft., rein.-con. and brick addition, Richmond and Kennedy Sts., for C. Lenning & Co., Inc., Richmond and Kennedy Sts.

Tenn., Nashville — GARAGE and MACHINE SHOP — Nov. 28, by Davidson Co. Hy. Comn., F. M. Dorris, chn., Nashville, brick, cement and steel garage and machine shop, 5th and Hitt Sts. Asmus & Clark, Stahlman Bldg., archts. Archts. est. $125,000.

Mich., Grand Rapids—POWER PLANT—Turner & Thebaud, archts., Grand Rapids, taking bids 2 story, rein.-con., brick and steel, plain foundation, for Amer. Laundry Co., 634 Division St. S. $125,000.

Ill., Chicago—ALUMINUM FOUNDRY—A. A. Wickland & Co., engrs., 5 South Michigan Ave., taking bids masonry contract 1 and 2 story, 125 x 365 ft., brick, 36th Pl. and California Ave., for Advance Pattern & Fdry. Co., 2734 West 36th Pl. $125,000. Bids soon on plumbing, heating, etc. Noted Oct. 20.

Neb., Omaha—SERVICE—Allen & Wallace, archts., 224 Brandies Theatre Bldg., taking bids 3 story and basement, 36 x 99 ft., brick service, 18th and Howard Sts., for Nebraska Buick Auto Co., 502 South 19th St. $100,000.

Contracts Awarded

Me., Lewiston — POWER HOUSE — Androscoggin Electric Co., brick and steel power house, additions to head works, and tail race, to M. C. Tuttle Co., 862 Park Sq. Bldg., Boston, Mass.

N. H., Nashua—FACTORY—A. J. Haug, Taylor Rd., 1 story, 50 x 65 ft., brick and timber, plain foundation, Taylor Rd., to Nashua Building Co., 95 Temple St., Nashua.

Mass., Arlington — GARAGE and REPAIR SHOP—H. L. Frost Co., 20 Mill St., 2 story, 60 x 70 ft., rein.-con., brick and steel, plain foundation, Mill St., to Scully Co., 283 Main St., Cambridge. Archts. est. $40,000. Noted Nov. 3.

Mass., Chestnut Hill (Ind. br. Boston)—VENEER HOUSE—O. Howes, Esq., 20 room veneer house, brick, Hammond St. and Pine Rd., to M. C. Tuttle Co., 862 Park Sq. Bldg., Boston, Mass.

Mass., Hyannis — SERVICE GARAGE, REPAIR SHOP and SHOW ROOM — J. H. Connelly, Depot Sq., 1 story, brick and steel, plain foundation, Centre St., to H. Peterson, Chatham. Archts. est. $40,000. Private plans. Noted July 14.

Mass., Medway—FACTORY—Stone Mill Co., Main St., 1 story, 60 x 125 ft., timber addition, concrete foundation, to A. P. Clarridge & Son, 280 Purchase St., Milford. Private plans.

Mass., Newburyport — SERVICE STATION, SALESROOM and REPAIR SHOP—Henchey Motor Co., 1 story, 75 x 90 ft., brick and steel, plain foundation, Bridge Rd., to Cashman Bros., 75 Water St. Archt. est. $45,000.

Mass., Roxbury (Boston P. O.)—MANUFACTURING—Hub Advertising Co., 1693 Columbus Ave., 1 story, 60 x 100 ft., brick and steel, plain foundation, to F. A. Cundari, 27 School St., Boston.

Mass., West Roxbury (Sta. Boston) — MACHINE SHOP—L. W. Moody, 29 Gould St., 1 story, 50 x 70 ft., rein.-con. and

Buildings—Industrial (Continued)

brick, plain foundation, Willow St., to R. J. MacDonald, 1822 Centre St.

Mass., Worcester — MACHINE SHOP — M. J. Whittall Associates, 2 story, 60 x 220 ft., brick machine shop, winding and finishing building, to M. C. Tuttle Co., 862 Park Sq. Bldg., Boston, Mass.

R. I., Bristol—MILL—Cranston Worster Mills, 180 Thames St., 2 story, brick addition, to Rowley Constr. Co., 260 Central Ave., Pawtucket. Archts. est. $40,000.

R. I., Providence — MILL — Wanshuck Co., 725 Branch Ave., 2 story, 50 x 65 ft., brick addition, plain foundation, to Cruise Constr. Co., 19 Dexter St., Pawtucket.

N. J., Hoboken — FUR RENOVATING FACTORY — J. M. Ryan, 1414 Adams St. will build 3 story and basement, 55 x 100 ft. brick and steel, plain foundation, 1113-15 Clinton St. $40,000. Work will be done by separate contracts. P. A. Vivarttas, 110 48th St., Union City, archt. Noted Nov. 10.

Pa., Clearfield—KILNS—Harbison Walker Refractories Co., Farmers Bank Bldg., Pittsburgh, will build superstructure two one story, 80 x 400 ft. steel, here. $750,000. Work will be done by separate contracts. Approximately 400 tons steel for above, to J. & L. Steel Corp., Pittsburgh.

Ky., Louisville — FACTORY — Corhart Refractories Co., Starks Bldg., 2 story, 5 acre ft. floor space, brick and steel, 16th and Lee Sts., to L. W. Hancock Co., Louisville Trust Bldg. Engrs. est. $150,000.

O., Cleveland—CHEMICAL PROCESS—Grasselli Chemical Co., Guardian Bldg., 1 story, 65 x 126 ft., steel, Independence Rd., to Forest City Structural Steel Co., West 110th St. Archts. est. $60,000.

O., Cleveland — FREIGHT HOUSE — Nickel Plate R.R., Columbia Bldg., 1 story, 80 x 460 ft., brick, steel and concrete, Bway., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $150,000.

Ind., Ft. Wayne—FACTORY—General Electric Co., 1635 Bway., general contract 1 story, 90 x 120 ft., rein.-con., brick and steel, Winter Ave., to Indiana Eng. Co., 201 Central Bldg. Archts. est. $60,000.

Ind., Ft. Wayne—ELECTRICAL PLANT —W. K. Noble, general contract brick and steel, 1740 Lafayette St., to H. J. Kaiser, 1728 Spy Run St. Archts. est. $42,000.

Ind., Ft. Wayne—SERVICE and MACHINE SHOP—G. L. Ohmart Co., 220 Cooper Bldg., general contract 1 story and basement, 35 x 150 ft., brick, 340 East Berry St., to Champion Building Co., Ft. Wayne. Archts. est. $43,000.

Ind., Hammond—LAUNDRY PLANT—Hammond Wet Wash Co., 50x120 ft., brick and steel, 827 Columbia Ave., to Austin Co., 510 North Dearborn St., Chicago, Ill. Archts. est. $44,000.

Ind., Hammond — FACTORY — Taylor Chain Co., 140 South Dearborn St., Chicago, Ill., 2 story, 40x120 ft., brick, steel and stone, Clark and 141st St., here, to Chicago Industrial Constr. Co., 53 West Jackson Blvd., Chicago, Ill. Archts. ets., $45,000.

Ind., Indianapolis—SERVICE—Western Oil Co., 310 North Meridian St., 1 story, brick and steel, 330 East 22nd St., to J. G. West, 208 Castle Hall. Archts. est., $40,000.

Ind., Lafayette—PLANT—Coca-Cola Co., brick and steel plant, to F. Vesper, Lafayette. Archts. est., $50,000.

Ind., Lafayette—SHOP and GARAGE—J. F. Horner, 70x112 ft., rein.-con. and brick shop and garage, to Anderson & Ulrney, Lafayette. Archts. est., $43,000.

Mich., Detroit—POWER PLANT—Chevrolet Motor Corp., West Grand Blvd., 1 and 2 story, 47 x 84 ft., rein.-con., brick and steel addition, plain foundation, East Euclid Ave., to Martin Kraussman Co., 955 East Jefferson Ave.

Mich., Lansing—FACTORY—Oldsmobile Motor Co., 1 story, 90 x 400 ft. rein.-con., brick and steel addition, plain foundation, to Reniger Constr. Co., 127 North Cedar St. Noted Aug. 25.

Ill., Chicago—SOAP FACTORY—A. B. Wrisley Co., 529 South Franklin St., 1 story, 120 x 250 ft., brick, West 65th St. and Oak Park Ave., to Foltz & Co., 510 North Dearborn St.

Ill., Chicago—MACHINE SHOP—A. Epstein, archt., 2001 West Pershing Rd., general contract 1 story, brick, 3531-45 West 47th St., to Poirot Constr. Co., 38 South Dearborn St., for Sherman-Klove Co., 4640 West Harrison St. Noted Oct. 20.

Ill., Chicago—SOAP FACTORY, etc.—J. S. Kirk & Co., 1232 West North Ave., general contract Unit B, 8 story and basement, 75 x 206 ft. soap factory, 4 story and basement, 56 x 110 ft. glycerine plant, and 1 story and basement, 102 x 140 ft. tallow terminal, West North Ave. and Chicago River, to Avery Brundage Co., 110 South Dearborn St. Archts. est. $1,000,000.

Ill., East St. Louis—MILK DISTRIBUTING PLANT—N. C. Davis, archt., 4908 Delmar Blvd., St. Louis, Mo., general contract 90 x 90 ft. stable, 40 x 110 ft. wagon shed, and 55 x 100 ft. garage, all 1 story, also 2 story, 30 x 100 ft. office and cooler building, all rein.-con. and timber, Ridge and Wimmer Sts., here, to Fruin-Colnon Constr. Co., Merchants-Laclede Bldg., St. Louis, Mo., for Highland Dairy Farms Co., B. F. Tschannen, secy., 4321 Chouteau Ave., St. Louis, Mo. Approximately $100,000. Noted Nov. 3.

Kan., Wichita — WAREHOUSE — Crane Co., 836 South Michigan Ave., Chicago, Ill., general contract 2 story and basement, 80 x 140 ft., rein.-con., 1st and Santa Fe Sts., here, to Blaser-Vollmer Constr. Co., Wichita, $69,000.

Neb., Fremont—CREAMERY—Farmers Union Co-operative Creamery, 2 story and basement, 44 x 80 ft., brick and rein.-con., to Teas Constr. Co., 949 Morrell St. Archts. est. $50,000.

Calif., Los Angeles—FACTORY—Cochise Rock Drill Mfg. Co., 273 West 115th St. (1st unit), 1 story 100 x 100 ft., steel and corrugated iron, 6230 East Slauson Ave., in Laguna Maywood Industrial tract, to Union Iron Wks., 5125 Santa Fe Ave., $350,000.

Calif., San Diego—LAUNDRY—Original French Laundry, 702 Front St., 2 story, 100x150 ft., rein.-con., 10th St. and University Ave., to Trepte & Sons, 1456 J St., $100,000. Noted Nov. 3.

Calif., Rialto — PACKING PLANT — Rialto Co-Operative Citrus Assn., 1 story, 100 x 125 ft., brick and steel, to Austin Co. of California, 777 East Washington St., Los Angeles.

Philippine Islands — SUGAR CANE MILL—Compania General de Tabacoa de Filipinas, Barcelona, Spain, turbo-generators, lighting, and other electrical apparatus for sugar cane mill, here, to General Electric Co., River Rd., Schenectady, N. Y.; and steel and glass buildings to house machinery, to U. S. Steel Corp., 71 Bway., New York City. Noted June 30.

Buildings—Educational, Religious

Proposed Work

Vt., Rutland — HIGH SCHOOL — City, A. W. Perkins, mayor, City Hall, having revised plans prepared by A. G. Creighton, 140 State St., New London, Conn., 3 story and basement, 200 x 215 ft., brick and stone, plain foundation, Church St. $300,000. Former contract rescinded, R. D. Kimball Co., 6 Beacon St., Boston, Mass., engr. Noted Nov. 3.

Mass., Allston (Sta. Boston) — AMUSEMENT PALACE—C. Chironis, 1335 Beacon St., Brookline, having preliminary sketches made by G. N. Jacobs, 37 Providence St., 2 story, 170 x 170 ft., rein.-con., brick and stucco, plain foundation, Soldiers Field, here. $500,000.

Mass., Arlington (br. Boston) — SCHOOLS—Town, School Comn., plans additions to West Junior High and Pierce Schools. To exceed $150,000. Engineer and architect not selected.

Mass., Billerica — SCHOOL and AUDITORIUM—Town, M. A. Buck, chn. Building Com., Concord Ave., having sketches made by J. E. Allen, 283 Essex St., Lawrence, 2 story and basement, brick and stone, plain foundation. $150,000. Noted Aug. 4.

Mass., Boston—SCHOOL—City, Schoolhouse Dept., City Hall, having plans prepared by Funk & Wilcox, 26 Pemberton Sq., 3 story and basement, brick, limestone and granite, plain foundation, Camden St., Everett Dist.-South End. $700,000.

Mass., Brighton (Boston P. O.)—HIGH SCHOOL — City of Boston, Schoolhouse Dept., City Hall, having plans prepared by O'Connell & Shaw, 134 Newbury St., Boston, 3 story and basement, brick and limestone, plain foundation, Bennett Dist., here. $1,539,000.

Mass., Mattapan (Sta. Boston)—SCHOOL —City of Boston, Schoolhouse Dept., City Hall, having sketches made by Desmond & Lord, 1 Beacon St., Boston, 3 story and basement, brick, granite and limestone, plain foundation, Wellington Hill St., here. $600,000. Noted Apr. 21.

Mass., Medford (br. Boston) — THEOLOGICAL — Tufts College Theological School, L. S. McCollester, having plans prepared by Andrews, Jones, Biscoe & Whittmore, 50 Congress St., Boston, reconstructing and altering 2 story and basement, brick and limestone theological buildings, incl. chapel, library and halls. $160,000. R. D. Kimball Co., 6 Beacon St., Boston, engrs.

Mass., Newtonville (Ind. br. Boston) — HIGH SCHOOL—City of Newton, E. O. Childs, mayor, City Hall, plans altering and constructing two 2 story wings and auditorium addition, probably brick and steel, Walnut St., here. $150,000 or more. Engineer and architect not selected.

Mass., Northampton — SCHOOL — City, Superintendent Schools, 290 Main St., plans 2 story and basement, brick and stone, Florence Dist. $150,000 or more. Engineer and architect not selected.

R. I., Providence—SCHOOL and RECTORY—Holy Name Parish, A. Malone, pastor, having preliminary plans prepared by O'Malley & Fitzsimmons, 84 Broad St., Pawtucket, 2 story and basement, brick, Camp St. $150,000.

Conn., Bridgeport—CHURCH—St. Mary's Church, M. E. Wilson, pastor, having plans prepared by H. F. Ludorf & W. Berg, 410 Asylum St., Hartford, 1 story and basement, brick & stone Pembroke St. $150,000.

N. Y., New York—SCHOOL—Children's University, 10 West 72nd St., having plans prepared by R. H. Dana, Jr., 350 Madison Ave., 9 story and basement, brick and steel, plain foundation, 114 East 89th St. This corrects report in Oct. 27 issue.

N. Y., New York—HIGH SCHOOL—Bd. Educ., 500 Park Ave., had plans prepared by W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, Seward Park Senior High School, 6 story and basement, on 160 x 288 ft. site, 62 Ludlow St., here. $2,050,000. Noted Feb. 17.

N. J., Asbury Park—CHURCH—Owner, c/o A. P. Nucciarone, 206 Central Ave., Orange, having plans prepared 1 story and basement, 60 x 100 ft., brick, steel and stone, plain foundation, here. $150,000.

N. J., Belmar — SCHOOL — Bd. Educ. having plans prepared by J. Pierson & Son, 200 Jefferson St., Perth Amboy, brick and steel, plain foundation. $150,000.

N. J., Irvington (br. Newark)—SCHOOL —Bd. Educ., 1253 Clinton Ave., having plans prepared by G. C. Higby, 207 Market St., Newark, 2 story and basement, brick and steel addition, plain foundation, Florence Ave. $150,000.

N. J., Kearny — SCHOOL — Bd. Educ., Town Hall, plans brick and steel, plain foundation, Wilson and Schuyler Aves. $150,000. Engineer and architect not selected.

N. J., North Arlington (mail Arlington)—SCHOOLS—Bd. Educ., Arlington, having sketches made by J. F. Osborne, 81 Sunset Ave., Kearny, two 1 story and basement, brick and steel, plain foundations, Hudson Terrace and Prospect St. $150,000. Noted Nov. 10.

W. Va., Fairmont—SCHOOLS—Bd. Educ. soon takes bids two 3 story, rein.-con., brick and stone high schools, also additions to 2 schools. $1,000,000. Noted May 19.

La., New Orleans — COLLEGE — St. Aloysius College, Esplanade Ave., having plans prepared by A. S. Monty, 740 Poydras St., college addition. $150,000.

Tenn., Knoxville — EDUCATIONAL — State Bd. Educ., Nashville, H. A. Horton, gov., State Capitol, plans expending $2,000,000 new buildings, incl. library $400,000, 2 dormitories $200,000 each, gymnasium, administration, college, engineering, biology and science buildings, $200,000 each, here, for University of Tennessee, H. O. Morgan, pres.

Tenn., Memphis — MEDICAL and SCIENCE — State Bd. Educ., Nashville, H. A. Horton, gov., State Capitol, plans expending $500,000, for science and medical buildings, here, for University of Tennessee, Knoxville, H. O. Morgan, pres.

Ky., Louisville—SCHOOL—Bd. Educ. having plans prepared by J. M. Cooley, c/o owner, 4 story, brick and Indiana limestone, plain foundation, 1,500 seating capacity with 1,200 seating capacity auditorium, etc. 40th and Herman Sts. $800,000.

Ky., Louisville—CHURCH—Holy Cross Church, 32nd St. and Bway., having plans

Buildings—Educational, Religious (Cont.)

prepared by T. J. Nolan, Inter-Southern Bldg., brick, stone and terrazo, plain foundation, 1,000 seating capacity, 31st St. and Bway. $250,000.

O., Cleveland Heights (Warrensville P.O.)—SCHOOL—Bd. Educ., W. G. Nesbit, clk., 1781 Lee Rd., Cleveland, having plans prepared by J. H. Graham & Co., 1612 Euclid Ave., Cleveland, 2 story and basement, brick, steel and concrete, Princeton Rd. $250,000.

O., Jackson—HIGH SCHOOL—Bd. Educ. had plans prpeared by G. Scott, Norwalk, 2 story and basement, approximately 125 x 230 ft. high school. $250,000 bonds voted for same.

Ind., Ft. Wayne — SCHOOL — Lakeside Catholic Church, 132 East Berry St., had plans prepared by J. G. Steinbach, 155 North Clark St., Chicago, Ill., 3 story and basement, 80 x 140 ft., rein.-con., brick, steel and stone, Delaware and Kentucky Sts. $150,000. This corrects report in Oct. 13 issue.

Ind., Mishawaka—SCHOOL—Bd. Educ. having plans prepared by Hamilton, Fellows & Wilkinson, 814 Tower Court, Chicago, Ill., 2 story, brick school. $200,000. Noted Oct. 27.

Mich., Brighton—SCHOOL—Bd. Educ. had plans prepared by Verner, Wilhelm & Molby, 824 Book Bldg., Detroit, 2 story and basement, irregular shaped, rein.-con., brick and steel, plain foundation. $175,000.

Mich., Grosse Pointe Farms (mail Grosse Pointe)—SCHOOL—Sacred Heart Convent having plans prepared by Maginnis & Walsh, 100 Boylston St., Boston, Mass., 2 story and basement, rein.-con., brick and steel, plain foundation, Lake Shore Dr. $150,000.

Mich., Highland Park (br. Detroit) — CHURCH — St. Benedicts Roman Catholic Church, Chandler Ave., had plans prepared by Donaldson & Meier, 1310 Penobscot Bldg., Detroit, 1 and 2 story and basement, 1,400 seating capacity, brick, steel and stone, plain foundation, Candler Ave. $150,000.

Mich., Muskegon—CHURCH and PARISH HOUSE—Central Ave. Methodist Episcopal Church having plans prepared by E. M. Vanderwert & Child, Montgomery Blk., 1 and 2 story and basement, brick, steel and stone, plain foundation, 2nd St. $150,000.

Mich., Pontiac — HIGH SCHOOL—Bd. Educ. plans 2 story and basement, rein-con., brick, steel and stone addition to Central High School, plain foundation, $175,000. Engineer and architect not selected.

Mich., Pontiac — CHURCH — Central Methodist Episcopal Church, W. F. Crossland, pastor, purchased site and plans 2 story and basement, rein.-con., brick and steel, plain foundation, West Huron St. $350,000. Engineer and architect not announced.

Mich., Ubly—SCHOOL—Bd. Educ., J. G. McKay, supt., having plans prepared 2 story and basement, 14 room, rein.-con., brick and steel, plain foundation. $150,000. Engineer and architect not selected.

Ill., Carbondale — SCIENCE and MANUAL ARTS — Southern Illinois Teachers College takes bids in 1928, 2 and 3 story and basement, rein.-con. and brick science and manual arts building. $250,000. W. J. Lindstrom, 568 Transportation Bldg., Chicago, archt. Noted May 27.

Ill., Mt. Carmel — HIGH SCHOOL — Bd. Educ., W. H. Wetzel, pres., takes bids in spring Junior High School, 3 story, rein.-con. and brick and stone. $150,000. Engineer and architect not announced.

Kan., Dodge City—HIGH SCHOOL—Bd. Educ., takes bids after Nov. 22, 2 story and basement, rein.-con., brick, stone and terra cotta high school. $250,000. Mann & Co., 721 Rorabaugh-Wiley Bldg., Hutchinson, archts. Noted Oct. 13.

Neb., Lincoln — HIGH SCHOOL — Bd. Educ., c/o I. G. Ludlam, secy., 15th and N Sts., having plans prepared by Davis & Wilson, 525 South 13th St., Junior High School, 2 story and basement, 130 x 265 ft., brick and rein.-con., incl. 2 gymnasiums, cafeteria, laboratories, auditoriums, etc., 11th and B Sts. $300,000.

Ark., Ft. Smith—CONVENT—St. Scholatica Convent, Tulsa, Okla., having preliminary plans prepared by F. W. Redlick, Court Arcade Bldg., Tulsa, Okla., 4 story and basement, 90 x 100 ft., rein.-con., brick and stone plain foundation. $250,000.

Tex., Corpus Christi—HIGH SCHOOL—Independent School Dist., c/o Secretary, having plans prepared by Hardy & Curran, 709 Nixon Bldg., Junior High School, brick, stone, steel, terra cotta and hollow tile. $243,000.

Tex., Denton—DORMITORY—College of Industrial Arts, c/o L. H. Hubbard, pres., Bd. of Regents, plans fireproof dormitory. $160,000. Engineer and architect selected soon.

Tex., Harlingen — HIGH SCHOOL — Voted $280,000 bonds, high school, for Bd. Educ., c/o R. B. Hamilton, secy. Page Bros., Brownsville, archts. Noted Nov. 10.

Tex., Houston—CHURCH—South End Christian Church, 4000 South Main St., having plans prepared by Hedrick & Gottlieb, Post Dispatch Bldg., church, Main St. $250,000.

Okla., Allen—HIGH SCHOOL—Bd. Educ. had preliminary plans prepared 3 story and basement, rein.-con. and brick, plain foundation, 2nd St. $160,000. Engineer and architect not selected.

Okla., Duncan — CHURCH — Christian Church, F. D. Sheilds, pastor, having preliminary plans prepared rein.-con. and brick, plain foundation, Pecan St. $160,000. Engineer and architect not selected.

Okla., Holdenville—CHURCH—Catholic Church having preliminary plans prepared by C. L. Monott, 1304 West 10th St., Oklahoma City, 1 story, rein.-con. and brick, plain foundation, 5th St. $175,000.

Okla., Oklahoma City—HIGH SCHOOLS—Bd. Educ., J. G. Stearley, secy., having plans prepared by Layton, Hicks & Forsythe, Braniff Bldg., Senior and 2 Junior High Schools, each 3 story and basement, rein.-con. and brick, plain foundations. $2,000,000.

Okla., Ponca City—EDUCATIONAL and DORMITORY—Marland Refining Co., soon lets contract, 1 and part 2 story and basement, 97 x 157 with 40 x 70 ft. wing educational building $155,000, and 2 story and basement, 48 x 219 ft. dormitory $160,000, both rein.-con., steel, tile and stucco, plain foundations, Forsyth Corp., Ponca City, engrs. and archts.

Okla., Perry—HIGH SCHOOL—Bd. Educ. having plans prepared by Hawk & Parr, Cotton Exch. Bldg., Oklahoma City, 3 story and basement, rein.-con. and brick, plain foundation, 4th St. $150,000.

Okla., Shawnee — SCIENCE — Oklahoma Baptist University had preliminary plans prepared 3 story and basement, rein.-con. and brick, plain foundation, on campus. $200,000. Engineer and architect not selected.

Okla., Tulsa—SCHOOL—Benedictine Sisters having sketches made by F. W. Redlick, Court Arcade, school. $175,000.

Calif., National City—SCHOOLS—Grammar School Dist. having revised plans prepared by Kistner & Co., Detwiler Bldg., Los Angeles, 2 grammar schools. Former bids rejected.

Calif., Pasadena — HIGH SCHOOL — Pasadena Jr. High School Dist., having plans prepared by Austin & Ashley, Chamber of Commerce Bldg., Los Angeles, Marshall Jr. High School annex., rein.-con. $150,000.

Calif., Petaluma—CHURCH—Methodist Church plans fireproof church, on 150 x 200 ft. site, 5th and D Sts. $150,000.

Que., Montreal—SCHOOL—Hebrew Sub Com. of United Talmud Torahs, 4456 St. Lawrence St., soon takes bids school, $250,000. Engineer and architect not selected.

Ont., Islington—HIGH SCHOOL—Etobicoke Township having plans prepared by S. B. Coon & Son, 4 St. Thomas St., Toronto, 3 story and basement, 109 x 122 ft., rein.-con., brick and steel, plain foundation. $160,000.

Ont., Sarnia—SCHOOL—Bd. Educ. having plans prepared by C. C. Woods, Imperial Bldg., and take bids about Dec. 1, 2 story and basement, 20 room, rein.-con., brick and steel, plain foundation, East End. $200,000. Noted Oct. 27.

Ont., Toronto—COLLEGE—St. Michaels College Bd., St. Joseph St., plans 3 story and basement, rein.-con., brick and steel, plain foundation, Elmsley Pl. and St. Joseph St. $500,000. Engineer and architect not selected.

Ont., Thorold — HIGH SCHOOL — High School Bd. having plans prepared by D. R. Franklin, 587½ Yonge St., Toronto, 2 story and basement, rein.-con., brick and steel addition, incl. gymnasium, plain foundation. $150,000.

Bids Desired

N. H., Manchester—SCHOOL—Our Lady of Perpetual Help Roman Catholic Church, c/o W. E. Provest, archt., 1061 Elm St., taking bids 2 story and basement, brick and stone, plain foundation, Haywood St. $150,000. Noted June 30.

Mass., Agawam—CHURCH—St. David's Church, M. E. Mott, pastor, taking bids 1 story and basement, brick and stone, plain foundation. $150,000. C. C. Coveney, 184 Boylston St., Boston, archt. Noted Aug. 18.

Mass., Somerville (br. Boston)—HIGH SCHOOL—Nov. 23 (extended date), by F. I. Cooper Corp., archts., 172 Tremont St., Boston, altering and constructing 2 and 3 story and basement, 75 x 165 ft., and 80 x 175 ft., brick, steel and stone addition, plain foundation, Highland Ave., for City, L. M. Conwell, mayor, City Hall. $1,250,000. Noted Nov. 3.

Mass., South Weymouth (Ind. Br. Boston)—HALL and RECTORY—Church of Holy Nativity, Columbian St., taking bids 2 story and basement brick and stone, plain foundation, Columbian St. $150,000. J. W. Beal Sons Co., 185 Devonshire St., Boston, archts.

R. I., Providence — CONVENT — St. Michaels Roman Catholic Church, c/o O'Malley & Fitzsimmons, archts., 84 Broad St., Pawtucket, taking bids 3 story and basement, brick and stone, plain foundation, Oxford and Gordon Sts., here. $150,000.

N. Y., Nyack—SCHOOL—Nov. 22, by Bd. Educ., Village Hall, general contract 2 story and basement, 150 x 250 ft., brick and steel, plain foundation, Midland and 5th Aves. $600,000. E. Sibley, Bluff Rd., Palisade, N. J., archt. Noted Oct. 6.

N. J., Dumont—SCHOOL—Nov. 22, by Bd. Educ., Boro Hall, general contract 2 and 3 story and basement, brick and steel, plain foundation, New Milford Ave. $425,000. Hacker & Hacker, Main St., Fort Lee, archts. Noted Aug. 18.

N. J., Union City—MONASTERY—W. E. Anthony, archt., 131 East 47th St., New York City, taking bids general contract 3 story and basement, brick and steel, plain foundation, West St., here, for St. Michael's Monastery, 381 West St. $500,000.

Pa., Pittsburgh—CHURCH—Nov. 21, by Holy Rosary Roman Catholic Congregation, Lang Ave. and Kelly St., and Cram & Ferguson, archts., 248 Boyleston St., Boston, Mass., limestone and steel, Lang Ave. $500,000. Noted Mar. 3.

W. Va., Fairmont—SCHOOLS—Dec. 20, by Bd. Educ., 3 story high school, 2 story grade school and two grade school additions, all rein.-con., brick and stone. $1,000,000. W. B. Ittner, Inc., 911 Locust St., St. Louis, Mo., archt.

Ind., Ft. Wayne—NURSES HOME—St. Josephs Hospital, 702 Bway., taking bids 3 story and basement, 67 x 132 ft., rein.-con., brick, steel and Indiana limestone, Berry and Van Buren Sts. $150,000. Pohlmeyer & Pohlmeyer, 260 Central Bldg., archts. Noted Oct. 13.

Ind., Richmond—SCHOOL—Nov. 30, by Bd. Educ., 2 story, brick school. $150,000. Hamilton, Fellows & Wilkinson, 814 Tower Court, Chicago, Ill., archts.

Mich., Detroit—SCHOOL—Nov. 28, by C. A. Gadd, bus. mgr. Bd. Educ., 1354 Bway. Ave., Halley School, 3 story, rein.-con., brick and steel, plain foundation, Grove Ave. $400,475. Carey & Esselstyn, Hoffman Bldg., archts.

Contracts Awarded

Mass., Fall River — SCHOOL — City, Schoolhouse Dept., City Hall, general contract 3 story and basement, 75 x 230 ft., brick and stone, plain foundation, Dwelly, Slade and Lewis Sts., to J. Mooney, 207 Granite Blk., $154,970; heating and ventilating, to N. Miller & Son, 211 Pocasset St., $32,486. Noted Nov. 3.

Mass., Lynn—CHURCH—Church of Holy Family, 21 Bessom St., 1 story and basement, brick and stone, plain foundation, Bessom St., to H. F. McCarthy, 5 Stuart St., Watertown. Archts. est. $150,000. Noted Oct. 20.

Mass., Wellesley (br. Boston)—AUDITORIUM—Dana Hall School, H. T. Cooke, pres., 66 Grove St., 2 story, 60 x 100 ft., brick and steel, plain foundation, Grove St., to H. H. Hawkins & Sons, 238 Washington St., Newton, $150,000. Noted Aug. 4.

N. Y., Oyster Bay—SCHOOL—Bd. Educ., general contract 3 story and basement, 193 x 250 ft., brick, plain foundation, to Zerbe Constr. Co., 1133 Bway., New York City, $493,000; heating to J. E. Curley, Seacliff, $75,840, and plumbing to J. D. Duffy, Inc., 303 East 23rd St., New York City, $25,468. Grand total $594,308. Noted Sept. 22.

N. Y., Syosset—CONVENT—E. G. Perrot, archt, 130 West 42nd St., New York City, general contract 5 story, brick, steel and stone, to G. F. Driscoll Co., 548 Union St., Brooklyn, for Sisters of Mercy, 273 Willoughby Ave., Brooklyn. Archts. est. $700,000. Noted Aug. 11.

Federal Government Work

Bids Desired

Me., Caribou—Post Office—Nov. 29, by Treas. Dept., at office Supervising Archt., Wash., D. C., U. S. Post Office, here.

N. Y., Brooklyn—Chimney Extension—Nov. 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to chimney at Naval Medical Supply Depot, here. Noted Nov. 10.

N. Y., Brooklyn — Sprinkler System — Spec. 5418—Nov. 30, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extending automatic dry-pipe sprinkler system at Navy Yard, here; adv. E. N.-R. Nov. 17.

Pa., Pittsburgh—Bear Trap Leaves—Dec. 7, by U. S. Engineer Office, 2 sets bear trap leaves for Lock 6, Ohio River; adv. E. N.-R. Nov. 17.

Va., Norfolk — Bulkhead — Dec. 9, by U. S. Engineer Office, furnishing and placing rip rap stone and brush fascines for repairing Craney Island bulkhead, Norfolk Harbor, here; adv. E. N.-R. Nov. 17.

Ga., Savannah—Hospital—Dec. 19, by Treas. Dept., at office superv. architect, U. S. marine hospital, here.

Ky., Dawson Springs—Boilers—Nov. 22, by U. S. Veterans Bureau, Arlington Bldg., Wasah., D. C., 4 horizontal tubular boilers for U. S. Veterans Hospital 79, Outwood, here.

O., Cleveland — Hospital — Dec. 23, by Treas. Dept., at office Supervising Archt., Wash., D. C. construction and mechanical equipment for main building U. S. Marine Hospital, here. J. A. Wetmore, acting superv. archt.; adv. E. N.-R. Nov. 17.

Ore., Portland—Hospital—Dec. 29, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing buildings and utilities, etc., at U. S. Veterans Hospital, here. Noted Apr. 1, 1926.

Calif., San Diego—Distributing System—Spec. 5497—Dec. 7, by Bureau Yards & Docks, Navy Dept., Wash., D. C., distributing system at Naval Operating Base (Hospital), here. Noted Nov. 10.

Contracts Awarded

N. H., Portsmouth — Elevator — Treas. Dept., at office Supervising Archt., Wash., D. C., 1 passenger elevator in U. S. Post Office and Custom House, here, to Haughton Elevator & Machine Co., 200 Vermont Bldg., Wash., D. C., $4,811. Noted Nov. 3.

N. H., Portsmouth—Remodelnig—Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here, to A. J. Ross, 120 High St., Boston, Mass., $12,975. Noted Oct. 13.

Mass., Woods Hole—Chemistry Laboratory—U. S. Bureau Fisheries, altering 2 story chemistry laboratory, to T. Kelleher, Sandwich.

N. J., Lakehurst—Bearings—Spec. 5525—Bureau Yards & Docks, Navy Dept., Wash., D. C., replacing bearings on hangar doors, Naval Air Station, here, to Bethlehem Steel Co., Bethlehem, Pa., $20,700. Noted Nov. 10.

N. J., Oceanport—Barracks—Constructing Quartermaster, Fort Monmouth, medical detachment barracks, at Fort Monmouth, here, to Hughes Foulkrod Co., Commonwealth Bldg., Phila., Pa., $26,500 (180 days).

Pennsylvania—Dredging—U. S. Engineer Office, Phila., Pa., dredging in Delaware River, on Marcus Hook and Bellevue Ranges, to Amer. Dredging Co., 208 Chestnut St., Phila., $307,800. Noted Nov. 3.

D. C., Wash.—Excavating—Treas. Dept., at office Supervising Archt., excavating for portion Internal Revenue Building and for Commerce Building, to W. F. Brenzier Co., 101 New York Ave., N. E., $10,400 and $14,250 respectively. Noted Nov. 17.

Tenn., Memphis—Refrigerating Plant—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., refrigerating plant at U. S. Veterans Hospital, here, to Frick Co. Inc., Waynesboro, $5,400. Noted Nov. 10.

O., Akron—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., U. S. post office, here, to A. Blair, 11 South Lawrence St., Montgomery, Ala., $449,254. Noted Oct. 27.

O., Dayton—Electrical Distributing System—Constructing Quartermaster, Wright Field, electrical distributing system for power plant laboratory building, here, to C. M. Kilsen & Co., Inc., Dayton, $35,906.

Mo., St. Louis—Radio Transmitters and Receivers—U. S. Engineer Office, 3 radio transmitters and receivers, here, to General Electric Co., Schenectady, N. Y., $9,132.

Utah, Salt Lake City—Earthwork—Bureau Reclamation, earthwork, etc. Echo Dam, to A. Guthrie & Co., Sherlock Bldg., Portland, Ore., $1,125,097; and relocating tracks of Park City branch, Union Pacific R.R. and Lincoln Highway, to Utah Constr. Co., McIntyre Bldg., Salt Lake City, $386,969. Noted Sept. 22.

Wash., Fort Lewis — Barracks — Constructing Quartermaster, 1 two company barracks, rein.-con., to Sheble & Snyder, Inc., Seaboard Bldg., Seattle, $138,100. Noted Sept. 29.

Wash., Fort Lewis — Hospital — Constructing Quartermaster, constructing hospital at Fort Lewis, here, to A. F. Mount, Seattle, $112,249. Noted Nov. 17.

Calif., Palo Alto—Streets and Sidewalks—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing 38,000 sq.ft. concrete sidewalks, to N. D. Dutcher, Jr., Livermore, $6,422; resurfacing 11,500 sq. yd. road, to E. Lynn, P. O. Box 537, Menlo Park, $9,200, and curbing, guttering, sidewalks and surface drains, to W. J. Taylor, 640 Turk St., San Francisco, $19,106. Grand total $34,727.

Unclassified

Proposed Work

Memorial Flagstaff—New Haven, Conn.—City, Bd. Park Comn., making plans bronze flagstaff, 90 ft. high and 35 ft. wide at base, with granite and marble base. $30,000. D. Orr, 956 Chapel St., engr.

Base Ball Park — Indianapolis, Ind. — Indianapolis Base Ball, J. A. Perry, pres., 1235 West Washington St., having preliminary plans prepared by D. A. Bohlen & Son, 1001 Majestic Bldg., base ball park, rein.-con. and steel, 17,500 seating capacity, Keystone and East New York Sts. $500,000.

Oil Pipe Line—Pecos, Tex.—United Producers Pipe Line Co., plans 425 mi. 10 in. trunk line, from Pecos Co. to ship channel at Houston, 30,000 to 40,000 daily capacity. $12,500,000. Engineer not announced.

Bids Desired

Golf Club and Course — New Haven, Conn.—H. M. Woolsey, engr., 5 East 57th St., New York, N. Y., taking bids 2 story, 50 x 110 ft., incl. wing, club building R. D. Pryde, Race Brook, Orange, will build golf course at Fair Haven, near here, for city. Engrs. est. $100,000.

Subway—Long Island City, N. Y.—Dec. 9, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, 1st section of new subway system at the junction of the line from 53rd St., Manhattan, with the Queens and Brooklyn crosstown lines.

Core Borings—St. George, N. Y.—Nov. 25, by A. Goldman, comr. Plant & Structures, Municipal Bldg., New York City, core borings on site of proposed Fresh Kills Bridge, Richmond Ave., here.

Heating, Plumbing, etc.—Jackson, Miss.—Nov. 21, by State Hospital Removal, Improvement & Land Sale Comn., New Capitol, R. L. Brown, secy., heating, plumbing and wiring for 3rd group buildings for State Insane Hospital. Noted Nov. 3 under "Buildings—Commercial."

Lighting System—Porter, Ind.—Nov. 22, by Bd. Town Trustees, Town Hall, street lighting system for use and benefit all property, streets, roadways and lots within boundaries Dune Forest. G. W. Dabbert, town clk.

Test Holes—Evansville, Ind.—Nov. 29, by J. D. Williams, dir. State Hy. Comn., Idianapolis, boring 32 test holes, totalling approximately 2,600 lin.ft. rock and earth borings for foundations of bridge over Ohio River, in Henderson Co., Kentucky, near here, Contr. 179.

Electric Light System—Arnette, Okla.—Nov. 22, by R. Shields, city clk., 10 mi. 13,200 volt electric line and distribution system. $25,000. C. V. Word, Arnette, engr.

Lighting System — Alhambra, Calif. — R. B. Wallace, city clk., taking bids ornamental lighting system on Electric and Bushnell Aves., etc. To exceed $25,000.

Lighting System—Beverly Hills, Calif.—B. J. Firminger, city clk., taking bids ornamental lighting system on portions Rigedale Dr., etc. To exceed $25,000.

Contracts Awarded

Golf Club and Course — New Haven, Conn.—See "Bids Desired."

Storage Sheds—Waterford, N. Y.—A. W. Brandt, comr. Highways, Albany, storage sheds, here, to S. A. Scullen, Inc., Cohoes, $33,177. Noted Oct. 27.

Station Finish—Phila., Pa.—Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., station finish for Erie, Hunting Park, Wyoming, Logan and Olney St. Stations, for Broad Street Subway, Contr. 183, to Kaufman Constr. Co., Penna Bldg., $243,328. Noted Nov. 3.

Transmission Line — Texas — Central Power & Light Co., c/o Frost Bldg., San Antonio, transmission line from Victoria to Port Lavaca, also branch from Placedo to Bloomington, approximately 42 mi., to L. E. Myers Constr. Co., 53 West Jackson St., Chicago, Ill., approximately $70,000.

Culverts—California—See "Bridges."

Lighting System—Los Angeles, Calif.—Ornamental lighting system on Lankershim Blvd. between Hatteras and 3rd Sts., to Newbery Electric Co., 726 South Olive St., $44,380.

Materials

Proposed Work

Quarrying and Rock Preparation Machinery—Cleveland, O.—Standard Asphalt Corp., Keith Bldg., desires catalogs from manufacturers of quarrying and rock preparation machinery.

Bids Desired

Brick and Pipe—Providence, R. I.—Nov. 21, by Bd. Contr. and Supply, furnishing hard body and commercial building, brick, hard burned sewer brick, cast iron water pipe (various sizes), for Dept. Pub. Wks., to exceed $5,000. J. E. Dunn, City Hall, chn.

Gasoline—Long Island City, N. Y.—Nov. 23, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 50,000 gal. gasoline to Bureau Street Cleaning; 5,000 lin.ft. hose (rubber covered) and 50,000 ft. fire hand weld 15/32 in. skid chain.

Bridge Lumber—Harlan, Ia.—Nov. 22, at office Auditor Shelby Co., 225,800 ft. bridge lumber, 28,400 ft. treated southern yellow pine lumber and 3,200 ft. corrugated metal pipe. L. Martin, Harlan, co. engr.

Bridge Lumber—Logan, Ia.—Nov. 22, by Auditor Harrison Co., 20 cars bridge lumber and piling. T. A. Cherry, Logan, co. engr.

Sand—Sacramento, Calif.—H. G. Denton, city clk., taking bids 2,000 tons sand for filter beds at filtration plant.

Bridge Lumber—Logan, Ia.—Nov. 22, by Auditor Harrison Co., 20 cars fir bridge lumber and piling. T. A. Cherry, Logan, co. engr.

Contracts Awarded

Gravel—Meridian, Miss.—See "Streets and Roads."

Cast Iron Pipe—Amarillo, Tex.—City, c/o J. D. Bartlett, mayor, 15,000 ft. 6 in. and 600 ft. 4 in. c.i. pipe, to Amer. Cast Iron Pipe Co., Praetorian Bldg., Dallas, $9,946. Noted Oct. 27 under "Waterworks."

Pipe—San Bernardino, Calif.—City, to Pacific States C.I. Pipe Co., 417 South Hill St., Los Angeles, 10,000 ft. 4 in. Class 250 c.i. pipe with lead joints, 12 ft. lengths, asphaltum coated, at $0.397 per ft., 10,000 ft. 6 in. $0.58; also to Amer. C.I. Pipe Co., 412 West 6th St., Los Angeles, 5,000 ft. 8 in. $0.89, and 5,000 ft. 12 in. $1.535, etc.

Steel Tie Plates and Rails — Montreal, Que.—Canadian Natl. Ry., 230 St. James St., 10,000 tons steel tie plates and 7,000 tons rails, to Dominion Iron & Steel Co., Sydney, N. S.

Fuel Oil—Boston, Mass.—Supply Dept., heavy fuel oil to various depts., to City Service Refining Co., 209 Washington St., at $0.041 per gal., and to Dorchester Court House, to Petroleum Heat & Power Co., $0.044; also light fuel oil to various depts., to New England Oil Refining Co., 141 Milk St., $0.0625. Noted Oct. 6.

See proposal advertising on page 124

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Analysis of Bids on Bridge River Power Tunnel

British Columbia

NINE contractors submitted estimates on the Bridge River power tunnel for the British Columbia Electric Railway Co., Ltd., of Vancouver, and the spread between the low and high bids was only 34 per cent. The contract was awarded on Oct. 1 to the Pacific Engineers, Ltd., Vancouver, with which is associated The Henry & McFee Construction Co., of Seattle, for $1,249,530, which amounts to $94.66 per lin.ft. Time of completion is given as August, 1930. E. E. Carpenter is consulting engineer.

This is part of the Bridge River Project, the initial stage of which includes the development of 45,000 kva. and its transmission to Vancouver. The site of the tunnel lies 150 miles northeast of that city and is reached by the Pacific Great Eastern Ry., which passes the powerhouse site. The tunnel is 12,618 ft. long.

The tunnel must be built entirely from two headings. The Seton portal (or south portal) lies 2,000 ft. from and 1,200 ft. higher than the railway station at the powerhouse site, with which it is connected by an inclined tramway with hoist for transporting supplies for the tunnel work. The Bridge River portal (or north portal) lies eight miles by roadway from the Bridge River railway station. All supplies for the north portal must be hauled over this roadway, which crosses the Mission Mountain summit 3,000 ft. above the powerhouse site.

The company will unload, store and handle all the contractor's materials from railway cars at Bridge River station, and haul them up the tramway to the Seton portal and over the mountain to the Bridge River portal. The company will also furnish electric power, lumber, cement, sand and gravel, at both portals. These services will be charged for at the following rates:

Electric power, per kw.-hr.	$0.02
Unloading, storing, handling and forwarding miscellaneous supplies other than lumber, cement, sand and gravel, per 100 lb.	.10
Loading and hauling by motor truck to Bridge River portal miscellaneous supplies other than lumber and cement, per 100 lb.	.25
Lumber:	
F. o. b. Seton portal, per M. ft., b. m.	32.00
F. o. b. Bridge River portal, per M. ft., b. m.	36.00
Cement, Canadian Standard:	
F. o. b. Seton portal, per bbl	5.00
F. o. b. Bridge River portal, per bbl	5.60
(Rebates for sacks, 20 cents each)	
Sand and Gravel:	
F. o. b. tramcar at Seton portal, cu.yd.	2.75
At Bridge River portal the contractor must obtain his own sand and gravel from the river bars.	

ONE type or section will be employed throughout in excavating the main tunnel bore. Several types of lining may be used, depending upon the location and nature of the rock encountered. The cross section of the excavated bore is approximately equivalent to a circle 12 ft. in diameter. The shape is generally a horseshoe section, and the types contemplated in the contract are as follows:

Type	Description	Length Lin.Ft.
R	Untimbered and unlined rock section	4,668
S	Untimbered and lined horseshoe section	850
T	Untimbered and lined circular section	300
U	Timbered and lined horseshoe section	5,200
V	Timbered and lined circular section	
	(a) Plain concrete lining	1,100
	(b) Reinforced concrete lining	500
	Total length	12,618

THE table of unit prices shows the lowest bidder estimated as follows on the major groups: excavation, $674,056; concrete lining, $344,720; grout and grouting, $70,000; concrete for intake tower, $67,904; permanent timbering, $62,250; reinforcing steel, $30,600. The unit prices of the nine bidders average as follows for the principal items:

Excavation	
11,000 cu.yd. open cut, common	$1.51
7,300 cu.yd. open cut, rock	4.47
12,618 lin.ft. main tunnel	52.98
Concrete	
3,200 cu.yd., intake tower	22.64
11,800 cu.yd., main tunnel	23.47
3,500 cu.yd. grout and grouting	24.85
Reinforcing steel, 600,000 lb.	.065
Timbering, permanent, 750 M. ft., b.m.	83.20

THE difference between the total bids of the lowest bidder and the next to the lowest is $87,084. Excavating the main tunnel is the largest single item, and the spread here between low and next to low is $119,300. The highest bid on excavating the main tunnel is 60 per cent more than the lowest.

Lining the main tunnel is next to the largest item, and five of the bids were under the low bidder's $301,844, and the highest bid was only 14 per cent above this.

Summary of Bids—Bridge River Tunnel, British Columbia

	Item	Quantities	Pacific Engineers, Ltd., and Henry & McFee Contr. Co. Assoc.	The Dredging Contractors, Ltd.	The Utah Construction Co.	A. Guthrie & Co., Inc.	Fraser, Frew & Dryer, Ltd., and A. D. Creer	Stuart Cameron & Co., Ltd.	Youdall Construction Co.	Sydney E. Junkins Co., B. C., Ltd.	Northern Construction Co., Ltd. and J. W. Stewart
1.	Ex. open cut at Bridge River intake:										
	a. Common	11,000 cu.yd.	1.24	1.50	1.50	1.00	2.00	2.25	2.15	2.00	0.87
	b. Rock	7,300 cu.yd.	5.62	5.65	3.00	3.00	4.00	4.60	3.60	5.00	5.75
2.	Ex. entrance section	1,250 cu.yd.	8.72	10.00	10.00	15.25	12.00	12.45	15.40	14.00	7.20
3.	Ex. main tunnel	12,618 ft.	43.60	52.50	52.00	63.00	66.00	60.00	69.00	70.00	67.30
4.	Ex. surge chamber	1,850 cu.yd.	10.00	11.00	10.00	15.25	15.00	13.55	16.20	14.40	13.98
5.	Ex. surge chamber shaft:										
	a. Timbered	245 ft.	26.16	28.20	60.00	70.00	200.00	49.50	110.00	65.00	50.00
	b. Untimbered	50 ft.	26.16	23.00	40.00	40.00	200.00	40.00	91.00	55.00	50.00
6.	Ex. open cut at surge chamber shaft head:										
	a. Common	50 cu.yd.	0.98	1.50	1.00	1.00	4.00	0.83	2.00	1.00	0.87
	b. Rock	30 cu.yd.	1.96	5.00	2.00	5.00	10.00	3.50	5.00	1.50	5.18
7.	Ex. Penstock Tunnel:										
	a. Timbered	243 ft.	100.00	60.00	70.00	90.00	70.00	71.86	93.70	90.00	86.25
	b. Untimbered	50 ft.	90.00	55.00	62.00	80.00	70.00	67.00	80.00	81.00	76.00
8.	Ex. open cut at Seton Portal:										
	a. Common	500 cu.yd.	0.92	1.50	1.00	1.00	2.00	0.83	2.30	1.00	0.87
	b. Rock	2,000 cu.yd.	1.38	5.25	2.00	2.50	4.00	3.50	4.50	1.50	5.18
9.	Permanent timbering	750,000 f.b.m.	83.00	61.00	66.00	70.00	68.00	122.40	98.00	100.00	80.50
10.	Concrete for intake tower	3,200 cu.yd.	21.22	21.30	24.00	20.00	18.00	24.68	22.80	23.00	28.75
11.	Conc. lining for entrance section	500 cu.yd.	24.36	26.50	22.00	22.00	18.00	27.90	25.30	28.80	26.25
12.	Conc. lining for main tunnel	11,800 cu.yd.	25.58	22.10	27.00	21.00	15.00	22.40	21.60	27.55	29.00
13.	Conc. lining for surge chamber	650 cu.yd.	25.58	22.10	22.00	24.00	18.00	25.46	26.00	27.40	26.75
14.	Conc. lining for surge chamber shaft and shaft head	550 cu.yd.	25.58	22.10	30.00	22.00	18.00	25.46	28.00	26.40	27.60
15.	Grout and grouting	3,500 cu.yd.	20.00	27.50	35.00	21.00	23.00	25.00	20.00	20.00	32.20
16.	Reinforcing steel	600,000 lb.	0.051	0.06	0.06	0.065	0.10	0.066	0.07	0.048	0.065
	Totals (in thousands of dollars 000 omitted)		$1,250	$1,337	$1,412	$1,451	$1,472	$1,505	$1,597	$1,653	$1,678

UNIT PRICES Continued on page 258A

RODNEY HUNT
RODNEY HUNT MACHINE CO.
ORANGE, MASS.
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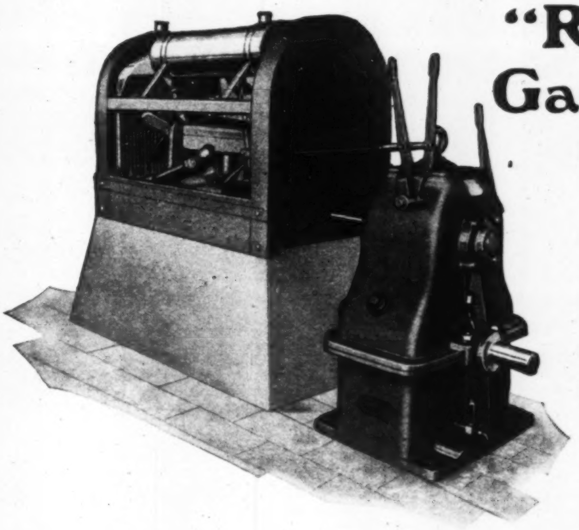
"W C A" Broadcast
Water Controlling Apparatus



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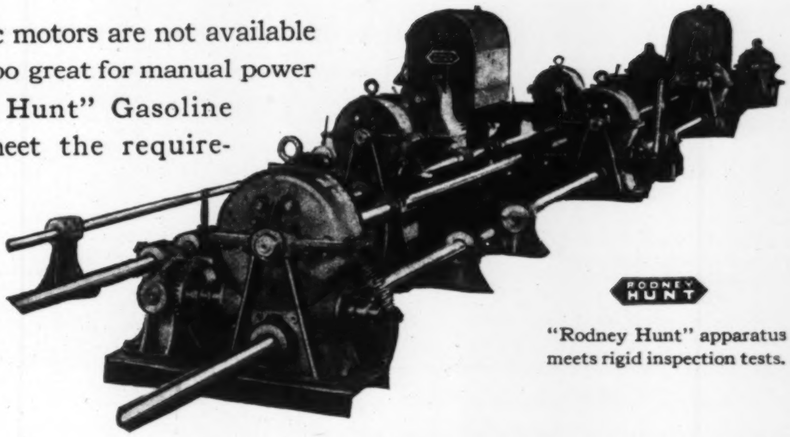
When electric motors are not available and loads are too great for manual power the "Rodney Hunt" Gasoline Power Units meet the requirements.



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You will do well to ask for Catalog W.C.A. No. 32 when writing for further data

RODNEY HUNT MACHINE COMPANY

Sluice Gates—Sluice Valves—Floor Stands—Hoists—Penstocks, Turbine Water Wheels

Main Office and Works, 79 Lake Street, Orange, Mass.

RODNEY HUNT

The Experience of 50 Years is of Value to You

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Sewer—Detroit, Mich.

Bids were opened by City, July 20, (lowest four and highest) for constructing Detroit River Interceptor, Sect. 4, tunnel construction, from (A) S. A. Healy, 1007 American State Bank, (awarded contract); (B) Julius Porath & Son, 909 Transportation Bldg.; (C) Lennane & McIlvenna, 7177 West Chicago Blvd.; (D) Jeynes & Son; (E) George R. Cooke Co. The unit bids are as follows:

	A	B	C	D	E
3,894 ft. 12 ft. 3 in. cylindrical sewer...	$75.00	$77.00	$79.00	$85.00	$97.00
33 ft. junction chamber at Boulevard...	300.03	200.00	303.03	151.52	21,000.00*
90 ft. special section at Helen Avenue......	200.00	250.00	166.67	111.12	45,000.00*
20 ft. special section at Mt. Elliott Avenue	200.00	200.00	500.00	150.00	18,000.00*
5 standard manholes..	200.00	400.00	100.00	200.00	350.00
Totals............	$324,950	$334,938	$343,126	$349,990	$463,468

*Lump sum bid.

Engineering News-Record, Issue of November 17, 1927.

Road—Nevada

Bids were opened by Department of Highways, Carson City, Aug. 17, (lowest three) for constructing 8.35 mi. gravel surface highway, 18 ft. wide, 6½ in. thick, in Douglas and Ormsby Counties, F. A. P No. 99, from (A) Nevada Rock & Sand Co., Reno, (awarded contract); (B) Fred Coolidge, Reno; (C) Dodge Bros., Inc., Fallon. The unit bids are as follows:

	A	B	C
75,000 cu.yd. excav. unclass............	$0.29	$0.40	$0.38
204,309 yd. sta. overhaul............	.02	.02	.04
6.35 mi. prepare subgrade and shoulders......	75.00	75.00	100.00
18,200 cu.yd. gravel surface complete in place...	1.80	2.25	2.00
124 cu.yd. Class "A" conc............	35.00	34.00	40.00
32 cu.yd. Class "B" conc............	35.00	34.00	40.00
526 lin.ft. installing 18-in. corr. metal pipe.....	.80	.50	.75
310 lin.ft. installing 24-in. corr. metal pipe.....	.96	.50	.75
82 lin.ft. installing 30-in. corr. metal pipe......	1.10	.50	.75
26 monuments............	4.00	3.00	5.00
25 cu.yd. rip rap............	12.00	5.00	4.00
1,800 lin.ft. woven wire guard fence..........	.90	.62	1.00
37,930 lin.ft. remove and reset fence..........	.10	.05	.05
Furnishing watering equipment (lump sum)...	1,500.00	300.00	500.00
1,276 M.gal. applying water............	1.50	2.05	2.00
Totals............	$73,719	$87,100	$87,314

Engineering News-Record, Issue of November 17, 1927.

Road—Minnesota

Bids were opened by State Highway Department, St. Paul, Aug. 16 (lowest three and highest), for constructing State Project No. 63-22, Divs. B and D, F. A. P. 383, north and south of New Brighton, Ramsey Co., from (A) Hanlon & Oakes, 1501 Merchandise Natl. Bank Bldg., St. Paul; (B) C. F. Sculley Equipment Co.; (C) Nolan Bros.; (D) S. J. Groves & Son. The unit bids are as follows:

	A	B	C	D
3,671 cu.yd. fine grading........	$1.00	$0.50	$0.40	$0.30
118,091.5 sq.yd. 1 course conc. pavement, Class A............	.....	.....	1.35	.....
118,091.5 Class B............	1.24	1.28	.....	1.57
118,091.5 Class C............	1.25	1.28	.....	1.57
8,124 lin.ft. sloping........	.10	.10	.10	.09
67.5 lin.ft. surface drain........	1.00	1.00	1.75	1.50
13 surface drain basins........	35.00	25.00	35.00	35.00
For filling washouts and widening road bed 3,671 cu.yd. loading...	.20	.40	.22	.20
11,569 cu.yd. mi. hauling.......	.28	.25	.20	.20
Totals............	$155,413	$158,558	$165,400	$190,840

Engineering News-Record, Issue of November 17, 1927.

Constr. News page 258a

Sewer—Calumet City, Ill.

Bids were opened by City, Apr. 20, (lowest three) for constructing storm and sanitary sewers, from (A) Public Construction Co., Hammond, Ind., (awarded contract); (B) Ahlborn & Laveen, Hammond, Ind.; (C) Subway Engineering Co., 115 South Dearborn St., Chicago. The unit bids are as follows:

	A	B	C
1,280 lin.ft. 7x7½ ft. culvert............	$31.00	$33.50	$30.00
700 lin.ft. 7x7½ ft. culvert............	40.00	47.50	49.00
1,525 lin.ft. 9 ft. rein. conc. pipe.......	73.00	70.00	68.00
1,330 lin.ft. 78 in............	54.00	55.00	57.00
5,330 lin.ft. 72 in............	48.00	52.00	51.50
1,390 lin.ft. 66 in............	42.00	40.00	43.50
4,190 lin.ft. 60 in............	37.50	37.75	40.00
2,840 lin.ft. 54 in............	34.00	35.00	35.25
2,450 lin.ft. 48 in............	28.00	30.00	29.25
6,785 lin.ft. 42 in............	22.00	23.75	24.50
2,200 lin.ft. 36 in............	19.00	18.00	21.75
1,350 lin.ft. 33 in............	16.00	15.00	17.00
330 lin.ft. 27 in............	11.00	10.00	10.75
1,700 lin.ft. 30 in............	13.00	12.00	14.00
733 lin.ft. 24 in. vitr. tile pipe.........	9.00	8.50	10.00
752 lin.ft. 22 in............	8.00	6.90	9.00
330 lin.ft. 20 in............	7.00	6.00	8.00
1,970 lin.ft. 18 in............	6.50	5.00	7.00
1,550 lin.ft. 15 in............	4.50	3.95	5.00
1,500 lin.ft. 8 in............	1.50	2.00	1.40
54 catch basins............	120.00	140.00	110.00
22 conc. manholes............	120.00	170.00	110.00
4 conc. manholes............	320.00	400.00	310.00
6 conc. manholes............	170.00	200.00	157.50
5 conc. manholes............	245.00	275.00	240.00
14 conc. manholes............	220.00	250.00	210.00
4 conc. manholes............	160.00	200.00	150.00
11 conc. manholes............	155.00	175.00	150.00
7 conc. manholes............	150.00	165.00	148.00
6 conc. manholes............	145.00	150.00	144.00
20 conc. manholes............	140.00	150.00	139.00
8 conc. manholes............	130.00	100.00	129.00
5 conc. manholes............	125.00	90.00	124.00
Junction chamber............	1,140.00	1,650.00	1,150.00
Junction chamber............	370.00	500.00	380.00
1,750 sq.yd. brick pavement............	2.00	2.10	1.90
150 sq.yd. rein. conc. pavement.........	3.00	2.95	3.00
2,790 lin.ft. curb and gutter............	1.00	.95	1.00
1,200 lin.ft. conc. walk............	.30	.28	.30
500 lin.ft. 6 in. house drains............	1.00	1.10	1.00
Pump building (lump sum)............	31,537.65	37,890.00	34,750.00
2-15,000 gal. centrifugal pumps.........	8,000.00	8,250.00	7,850.00
Removing two 5,000 gal. electric pumps	4,070.00	4,310.00	4,000.00
1 conc. headwall............	381.00	390.00	380.00
1,525 lin.ft. conc. cradle............	1.50	1.55	1.50
1,330 lin.ft. conc. cradle............	1.00	1.45	1.00
5,330 lin.ft............	.80	.95	.90
1,390 lin.ft............	.70	.85	.80
4,190 lin.ft............	.60	.75	.75
2,840 lin.ft............	.55	.65	.70
2,450 lin.ft............	.50	.60	.65
6,785 lin.ft............	.45	.55	.60
2,210 lin.ft............	.35	.52	.55
Totals............	$1,270,289	$1,320,036	$1,345,978

Engineering News-Record, Issue of November 17, 1927.

Dredging 25,000 cu.yd. at 52nd St., Brooklyn, N. Y., @ 29.5c.; 12,000 cu.yd. at Gansevoort Market piers, North River, @ 43c.; 48,880 cu.yd. at Washington St. pier, East River, Brooklyn, and 12,600 cu.yd. in North River, New York City, 29.25c.

Excavation, Carrollton, Ill., 204,717 cu.yd. open ditch, 10.5c.

Concrete canal lining, Merced Irrigation District, Calif., 625,136 sq.ft., 6.5c.

Gas mains, Oklahoma, 22,000 ft., 6 in., $1.43.

Asphaltic oil for Trenton, N. J., 26,550 gal., low bid, 15.13c.

Welded steel pipe, bell and spigot, Los Angeles, Calif., 60,000 ft. @ $55.85 per 100 ft.

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Club, Chicago, Ill., Agricultural Club of America having sketches made, $35,000,000.

Bridge, Cleveland, O., Cuyahoga Co. voted bonds, $7,000,000 bridge, $1,000,000 right-of-way.

Flood Control and water supply, Ft. Worth, Tex., Tarrant Co. Water Control League making plans, $6,500,000.

Hotel, Jersey City, N. J., Universal Securities Co. having sketches made, $5,000,000.

Flood prevention and irrigation, Texas, Hidalgo and Cameron Counties plan, $4,500,000.

Hotel, Club, Minneapolis, Minn., Nordic Hotel Assn. having plans prepared, $2,500,000.

Cold storage, Chicago, Ill., Produce Terminal Cold Storage Co. having plans prepared, $2,000,000.

Roads, Canton, Miss., Madison Co. voted bonds, $2,000,000.

Schools, Springfield, Mo., Bd. Educ. having preliminary plans prepared, $1,750,000.

School, Hamilton, O., voted bonds Nov. 8, $1,500,000.

Schools, Cleveland, O., voted bonds Nov. 8, $1,500,000.

School, Port Arthur, Tex., Bd. Educ. plans, $1,500,000.

Hydro-electric development, Olympia, Wash., Hamma Hamma Paper & Power Co. plans, $1,500,000.

Hotel, Elmira, N. Y., Wisner Park Corp. of America takes bids in March, $1,140,000.

Stadium, St. Louis, Mo., Washington University having preliminary plans prepared, $1,000,000.

Hotel, Newark, N. J., Owner, c/o F. Grad, archt., having sketches made, $1,000,000.

City Hall, Atlanta, Ga., City Council having plans prepared, $1,000,000.

Bids Desired

Hospital, Chicago, Ill., Dec. 3, by Holabird & Roche, archts., $2,000,000.

Contracts Awarded

Power plant, Tampa, Fla., Tampa Electric Co. to Stone and Webster, Inc., Boston, Mass. Engrs. est. to exceed $5,000,000.

Hospital and nurses home, New York, N. Y., French Hospital general contract to G. A. Fuller Co. Archts. total est. $2,000,000.

Loft, New York, N. Y., Printarts Building, Inc., to Magoba Constr. Co. Archts. est. $2,000,000.

Theatre and commercial building, Toledo, Ohio, Famous Players-Lasky, New York City, to Lundoff-Bicknell Co., Cleveland. Archts. est. $1,500,000.

Hospital, New York, N. Y., Neurological Institute of New York to M. Eidlitz & Sons, $1,250,000.

Factory and warehouse, Yokohama, Japan, Ford Motor Co., Detroit, Mich., to H. K. Ferguson Co., Cleveland, O. Archts. est. $1,000,000.

News of the Week

Waterworks

Proposed Work

Mass., Attleboro—Plans completing water supply, incl. pumping station and pipe lines. $200,000. M. Taber, City Hall, engr.

N. Y., Syracuse—Long Branch Water Dist. soon takes bids 7,750 ft. 6 or 8 in., and 6,700 ft. 2- to 4-in. c.i. or wrought iron mains and distribution system. $27,000. H. L. Aberdeen, Gurney Bldg., engr.

N. J., Newark — T. L. Raymond, dir. Dept. Pub. Affairs, City Hall, rejected bids Oct. 19, 3 mi. 60 in. water conduit from Belleville Reservoir, Belleville, to 8th Ave., here. Noted Sept. 29.

Ga., Smyrna — Voted $35,000 bonds, waterworks.

Miss., De Kalb—Making plans waterworks improvements. $35,000. H. A. Mentz, Citizens Bank Bldg., Hammond, La., engr.

La., Opelousas — Voted $50,000 bonds, improvement and additional equipment for water and light plant.

Ind., Morgantown — Takes bids early in December, complete waterworks, incl. mains, elevated steel tower, pump house, and pumping equipment, etc. $30,000. W. S. Heer Eng. Co., 414 Terre Haute Trust Bldg., Terre Haute, engrs.

Mo., Golden City—Plans complete waterworks, distribution system, and sewers, etc. in various streets. $75,000. A. C. Moore, Joplin Natl. Bank Bldg., Joplin, engr.

Mo., Ozark—Making preliminary plans waterworks and distribution system. F. B. Hawke, city clk.

Tex., San Antonio—See "Unclassified."

Okla., Ada—Voted $425,000 bonds, 18 mi. 24 in. rein.-con. conduit from here to Byrds Mill. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted May 12.

Okla., Talihina—Soon takes bids waterworks improvement, incl. concrete dam and distribution system. $60,000 bonds voted for same. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted Oct. 20.

Ore., Beaverton—Made surveys and estimates waterworks. Barr & Cunningham, Spalding Bldg., Portland, engrs.

Ore., The Dalles—Making plans approximately 6 mi. 24 in. pipe line and 25 ft. storage dam, at Lost Lake, 30 m.g.d. D. G. Glass, city engr.

Ore., Grants Pass—Made surveys and estimates waterworks, incl. pumping plant and filter $86,000, reservoir $31,000, wood pipe $196,000, or iron pipe $317,000, also 135 hydrants. Engrs. total est. $400,000. Barr & Cunningham, Spalding Bldg., Portland, engrs.

Bids Desired

N. Y., Brooklyn—Dec. 2, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenues J, N, R, V, X and Y, Banner, Flatlands, Nostrand, Remsen, Schenectady, 7th, Stillwell Aves., Apollo, Brown, Bay, 8th Sts., here.

N. Y., Long Island City — Nov. 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 28th, Hazen, Simonson, 61st, 70th and 71st Sts., 35th, 43rd, 60th, Goethels, and 34th Aves., etc., here.

N. Y., New York — Nov. 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Spuyten Duyvil Parkway, Bronxdale East Tremont, and Westchester Aves., Bronx Boro.

N. Y., St. George — Nov. 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Bryant, Coddington, Cromwell, Decker, Dewey and Delafield Aves., Clawson, Edison, Pearson, 10th Sts., etc., Richmond Boro.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Md., Towson—Dec. 12, by Comrs. Baltimore Co., Court House, mains in Rosemont and English Consul, Contr. 14-W and 15-W; Stoneleigh, Gray Manor and Falls Rd., Contr. 16-W and 17-W; also Sollers Point Rd., Turners Station and Middle River, Contr. 18-W and 19-W. A. E. Walden, ch. engr; adv. E. N.-R. Nov. 24.

Va., Alexandria—Dec. 12, by Alexandria Water Co., U. S. Lambert, pres., pumping station addition, etc. Hazen & Whipple, 25 West 43rd St., New York City, civil engrs.; adv. E. N.-R. Nov. 24.

Mich., Detroit—Nov. 30, by J. E. Mills, comr. Purchases & Supplies, Marquette Bldg., one 72 in. flanged gate valve for Dept. Water Supply, 176 East Jefferson Ave.

Calif., Dorris—City Trustees taking bids multistage centrifugal pump, 300 g.p.m., 140-head, direct connected to verteial motor 20 hp., drill and case 150 ft. 12 in. diam. well. J. F. Mackey, Mt. Shasta, engr.

Calif., Fullerton — F. C. Hezmalhalch, city clk., taking bids furnishing and installing booster and deep water pumps, and electrical equipment.

Calif., Ventura—Dec. 5, by City Trustees, 35,500 ft. 18- to 24-in. welded steel or c.i. pipe line, and 23,800 ft. 6- to 14-in. c.i. mains, etc., in various streets. Noted Oct. 6.

Bids Received

Mass., Boston—Metropolitan Dist. Water Supply Com., 24 School St., east portion 14 mi. concrete tunnel in towns of West Boylston, Holden, Rutland, Oakham and Barre, from J. P. Porter, Portland, Ore., $4,074,981, and west portion from Coughlan & Porter, Boston, $4,799,363. Noted Oct. 6.

Contracts Awarded

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenues M and T, Bedford, Dumont, 21st and 23rd Aves., West, East 2nd, East 7th Sts., etc., to Knight & Demicco, 4197 Parkk Ave., $8,672. Noted Nov. 3.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Allerton, Arnow, Barker Aves., etc., to Knight & DeMicco, Inc., 4197 Park Ave., $10,440. Noted Nov. 3.

Mich., Detroit—Plymouth Road Development Co., 12,900 ft. 6- to 12-in. c.i. mains in various streets, near here, to John A. McDace Co., 12326 Cloverdale Ave., $20,375. Noted Nov. 17.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Builders Iron Fdry., 9 Codding St., Providence, R. I., constructing water meters with corresponding venturi tubes for Missouri River Waterworks at Howards Bend, two 42 in. at $5,418, one 54 in. $3,366; and two 48 in. $8,828. Grand total $17,612. Noted Oct. 13.

Tex., Lockney—See "Unclassified."

Tex., Taylor — Waterworks, incl. distributing system, pumping unit and stor-

See proposal advertising on page 121

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

"The World's Playground" has used Leadite with complete satisfaction for over 20 years

ATLANTIC CITY, New Jersey, is proud of its well-paved streets. In laying new or additional cast iron mains, the engineers always use Leadite. They know from the experience of nearly one-quarter of a century that Leadite joints are absolutely secure and that the occasion will not arise where paved streets have to be dug up to repair the line.

In addition to the mains under the paved streets, Leadite was used for jointing the 24" main that runs under the famous boardwalk.

Other lines run through salt marshes, over bridges and under numerous railroad tracks.

The sizes of these mains run from 4" to 48".

Mr. L. Van Gilder is Engineer and Superintendent of the Atlantic City water department.

Added to the security and permanence of Leadite joints there is a saving of 75%.

For its economy—permanence—security—and the speed with which jointing can be finished—Water Works men specify and use Leadite.

Laying 24" c. i. water mains, with Leadite Joints, in Atlantic City under paved street.

Specify and use
LEADITE
—it saves at least 75%

Be sure it is
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and accept no imitations ~ ~ ~

The pioneer self-caulking material for c. i. pipe. Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

age reservoir, to L. L. Stephenson, Laredo, $210,000.

Okla.; Tipton—R. A. Parrott, city clk., 40,000 gal. reservoir, air compressor, pump, air lift pumping equipment, 300 ft. 4 in. c.i. mains, etc., to E. W. Baker & Co., Perrine Bldg., Oklahoma City, $14,670. Engrs. est. $15,000. Noted Jan. 13.

Okla., Wewoka — Purification plant, basins, tanks, valves and hydrants, main extensions, etc., to Standard Paving Co., 1742 East 6th St., Tulsa, $98,199. Engrs. est. $125,000. Noted Oct. 20.

Sewers

Proposed Work

N. J., Cranford — Twp. Com. making plans sewer in Lincoln Ave. and James St. $64,000. D. C. N. Collins, Elizabeth, engr.

La., Opelousas — Voted $100,000 bonds, extending sewers in various streets. Noted Apr. 7.

La., Tallulah—Making plans sewerage system. $100,000. H. A. Mentz, Hammond, engr.

O., Columbus—W. H. Duffy, dir. Service, making plans 6,093 ft. 6 and 8 in. vitr. clay sewer in alley west of Dresden Ave., $15,026; also 7,000 ft. alley west of Cleveland Ave., $15,000. R. H. Simpson, City Hall, engr.

Ind., Howell—Vanderburgh Co. making plans and takes bids in January sanitary and storm sewers in various streets, $250,000. W. Hich, Howell, engr.

Ia., Washington—Takes bids in 1928 sewers in various streets. $355,000. H. R. Green, Bever Bldg., Cedar Rapids, engr.

Minn., Kimball—L. Engel, village clk., plans sewerage system. $30,000. Engineer not announced.

Neb., North Platte—Making preliminary plans sewerage system. $39,000. R. S. Nosky, City Hall, engr.

Mo., Golden City—See "Water Works."

Mo., Lebanon—Making plans sewerage system. Russell & Axon, 408 McDaniel Bldg., Springfield, engrs.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making preliminary plans vitr. clay, segmental tile or brick sewer in North Baden Joint Sewer Dist. 3. $29,000. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making preliminary plans Southwest Joint Dist. Sewer to drain into Wherry Ave. Sewer at Wherry Creek, 5 mi., 16 ft. rein.-con. pipe. $950,000. W. W. Horner, 300 City Hall, engr.

Tex., Houston—City, c/o O. F. Holcomb, mayor, soon takes bids approximately 8,000 ft. sewers along Buffalo Bayou from Detention Hospital to Shepherd Dam Dr. $50,000. J. C. McVea, city engr.

Tex., Laredo—Takes bids about Dec. 15, extending 18- to 24-in. sewerage system. $60,000. F. C. Heines, city engr.

Okla., Tulsa—Plans 23,400 ft. 8- to 12-in. vitr. clay sewers in Avondale and Wildwood Additions. $33,723. C. Schultz, City Hall, engr.

Calif., Gilroy — Plans sewerage system. $25,000. H. B. Fisher, Growers Bank Bldg., San Jose, engr.

Calif., Long Beach—Plans vitr. and rein.-con. sewers, pumping stations, etc. in Parker, Pico and Gale Aves., etc. to exceed $500,000; also drainage system in Hill and Atlantic Ave. Dist., etc., $200,000 or more. A. H. Adams, city engr.

Calif., Los Angeles — Los Angeles Co. plans approximately 8 mi. vitr. sewers in Downey Dist. Impvt. 640. $110,000. A. K. Warren, Law Bldg., engr.

Calif., Santa Ana—Plans concrete sewers, etc. in South Sycamore St., etc. To exceed $25,000.

Ont., Toronto—York Twp. making plans two 3,000 sq.ft. sludge beds at Rockcliffe Blvd. Sewage Disposal Plant. $25,000. F. B. Goedike, 40 Jarvis St., engr.

Bids Desired

N. Y., Brooklyn — Nov. 30. by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewers in 62nd St., 25th and 26th Aves.

N. Y., Long Island City—Nov. 28, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Fisk, 50th (Garfield) and Westchester Aves., Van Gelder, Stoutenburgh (Madison), Vandergrift (Vanduyne) Sts., etc.; sanitary sewer in 150th St. (Three Mile Rd.), etc.

N. Y., Mamaroneck — Dec. 6, by Bd. Village Trustees, Halstead Ave., sewerage system, Contrs. 11, 12 and 13. R. H. Stevens, Larchmont, sanitary engr.; adv. E. N.-R. Nov. 24.

N. Y., Syracuse—Nov. 28, by Bd. Contr. & Supply, City Hall, sewers in Velasko Rd. and Bellevue Ave. N. F. Pitts, Jr., City Hall, engr.

N. J., Keansburg—Dec. 6, by Mayor and Council, approximately 1,800 lin.ft. 8 and 5 in. terra cotta sewers, etc., in various streets. Remington & Vosbury, 509 Cooper St., Camden, consult. engrs.; adv. E. N.-R. Nov. 24.

Tenn., Knoxville—Nov. 29, by Directors Pub. Serv., 600 ft. 8 ft. 6 in. x 8 ft. 6 in. solid rock tunnel, incl. 5 ft. brick or segmental block circular lining and 1,800 ft. 60 in. brick or segmental block open cut, in D. D. Sequoxah Hills, $75,000; also 1,700 ft. ditch and 600 ft. tunnel, concrete or vitr. clay lined, $70,000. W. W. Mynatt, City Hall, engr.

Tex., Laredo—Dec. 6, by City Council, 10,040 lin.ft. 12- to 24-in. sewers, incl. 30 manholes, etc., in various streets. $100,000. F. C. Heines, city engr.

Okla., Tulsa—Nov. 29, by R. J. Moore, city aud., 22,400 ft. 8- to 12-in. vitr. clay sewers in Wildwood Addition. $28,723. C. Schultz, City Hall, engr.

Contracts Awarded

N. Y., Albany—Bd. Contr. & Supply, City Hall, extending Judson St. trunk sewer, to H. Dumary, Inc., 119 State St., $18,320; also sewer in Eileen St., to E. B. Stevenson, 443 Bway., $5,197. Noted Oct. 20.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in 147th St., to J. Gallo, 169-10 State St., Flushing, $218,360; 84th St., to E. J. Kelley, Jr., Flushing, $27,671; 18th Ave., to Kennedy & Smith, Bradford St., Flushing, $6,371; and 107th Ave, to Flushing Contg. Co., 66 Wyoming Ave., Flushing, $501. Grand total $252,903. Noted Nov. 10.

La., New Orleans—Sewerage & Water Bd., 526 Carondelet St., coal pulverizers and burners, to Graham Eng. Co., New Orleans, $87,760; three 4,000 hp. water tube boilers, to Lasker Iron Wks., 3201 South Line St., Chicago, Ill., $184,649; also forced and induced draft fans and preheaters, to Air Preheater Co., 25 Bway., New York City, $69,683. Grand total $342,092. Noted Aug. 25.

O., Dayton—W. W. Morehouse, dir. Water Dept., City Bldg., sewage disposal plant of Imhoff type, to E. E. Latham, 447 Neilston St., Columbus, $677,928. Noted Sept. 29.

Mich., Detroit—Dept. Pub. Wks., Detroit River Interceptor Sewer, Sect. 6, in Franklin and Woodbridge Sts., to Central Contg. & Eng. Co., 17576 Wyoming Ave., $421,160. Noted Nov. 3.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, brick and tile sewers with brick manholes and brick catch basins in portions Vanvlissingen Rd., East 95th, 96th, 98th and 97th Places, East 95th, 96th, 97th and 98th Sts., Jeffrey, Euclid and Bennet Aves., to C. Roberts, 6921 Laflin St.

Ill., Specialville—Sewerage system, 8- to 54-in. tile pipe, etc., to Conrad Cannell Constr. Co., Evanston, $318,000. Engrs. est. $365,000. Noted Apr. 28.

Wis., Milwaukee — Sewerage Comn., R. Cramer, ch. engr., 508 Market St., concrete digestor tanks, activated sludge beds, pumps, ejectors, etc., to P. Riesens Sons, 1018 Humboldt Ave., $19,261. Engrs. est. $25,000.

Wis., Milwaukee—Bd. Pub. Wks., R. E. Stoelting, comr., to Zimmermann & Zimmermann, 3402 Wisconsin Ave., sewer in Keefe Ave. $268, Locust St. $7,618, and Melvina St. $277; to Raush & Busse, 918 44th St., Blue Mound Blvd. $5,120, Clermont Ave. $25,847, and 37th Ave. $10,964; to M. D. Dewos, 57 Mineral St., Clarke St., $683; and to H. O. Schaeffer, 752 64th Ave., West Allis, Singer Circle, $4,858. Grand total $63,383.

Mo., St. Joseph—To E. F. Mignery, 1108 Bellevue Ave., extending main sewer in Grand Ave. $1,534; to Riley Constr. Co., 110 North 7th St., St. Louis, sewer in 9th and Pacific Sts., from Missouri River east along Hickory St. to 8th St. and between 12th, 8th, Doniphan and Walnut Sts. $85,826; to O. H. Schmidt, 1st State Bank Bldg., Sewer 162 $871; to H. Devlin, 308½ Felix St., Sewer 140 $3,477, Sewer 110 $831, and Sewer 174 $2,292; also to Judson Eng. & Constr. Co., 1811 Faraon St., Sewer 149 $1,186, and Sewer 127 $948. Grand total $96,965. Noted Nov. 3.

Okla., Ponca City — C. E. Norton, city clk., extending 40,000 ft. sewers in Cross Addition, to W. B. Carter, Sioux City, Ia., $54,571. Engrs. est. $75,000. Noted Oct. 27.

Okla., Wewoka—For 22,600 ft. to 18 in. vitr. clay sewers in various streets, to Standard Paving Co., 1742 East 6th St., Tulsa, $48,210. Engrs. est. $60,000. Noted Oct. 20.

Calif., Inglewood—O. H. Duelke, city clk., to M. A. Skulick, 2018 West 85th St., sewers in Impvt. Dist. 1, 1,289 ft. 18 in. vitr. pipe at $2.45 per ft., 3,824 ft. 15 in. $2.10, 5,566 ft. 12 in. $1.85, 1,047 ft. 10 in. $1.45, and 387 ft. 8 in. $1.10, etc., total $34,405.

Calif., Los Angeles—Rein.-con. sewers in Verdugo Wash. to Roach-Axman Co., 2629 West 8th St., $39,850.

Calif., Oakland—To Fredrickson & Watson, 354 Hobart St., sewers in 72nd, 73rd and Sunnymere Aves., 30,305 ft. 8 in. vitr. pipe at $1.20 per ft., 929 ft. 10 in. $1.35, etc. Noted Oct. 20.

Bridges

Proposed Work

R. I., Providence — Pub. Wks. Dept., making plans concrete bridge, on Roger Williams Ave. S. F. Nolan, city engr.

New Jersey—Bd. Freeholders Hudson Co. (Jersey City), and Essex Co. (Newark), plan bridge over Passaic River, from Arlington to Newark. $100,000. Engineer not selected.

North Carolina — State Hy. Comn., Raleigh, making plans rein.-con. bridges and culverts on Project 6910, Union Co., $68,000; on Project 224, Duplin Co., $50,000; on Project 4090, Durham Co., $60,000; and Project 645, Lincoln Co., $60,000. L. R. Ames, Raleigh, engr.

Miss., Laurel—See "Streets and Roads."

Tenn., Kenton—State Dept. Highways & Pub. Wks., Nashville, takes bids about Dec. 15, 3,000 ft. concrete, steel and treated timber bridge over Obion River, Obion Co., near here. To exceed $25,000. C. N. Bass, highway comr.

O., Cleveland—Cuyahoga Co. voted $7,000,000 bonds, concrete bridge over Cuyahoga Valley, and $1,000,000 bonds, right-of-way. A. M. Felgate, Court House, bridge engr.

Kan., Sedan—Chautauqua Co. soon takes bids Bridge 1, two 120 ft. marsh arch spans; Bridge 2, two 40 ft. deck girder and two 120 ft. truss spans; Bridge 3, one 70 ft. truss and two 25 ft. deck girder spans; and Bridge 4, three 25 ft. deck girder spans, all 20 ft. wide, on Federal Aid Project 384-B. C. E. Fesler, Court House, engr.

Ark., Ozark — State Hy. Dept., Little Rock, making preliminary plans rein.-con., and steel toll bridge over Arkansas River, here. $250,000. C. S. Christian, c/o owner, engr.

Texas—Montgomery Co. (Conroe), c/o W. H. Lee, judge, and Harris Co. (Houston), c/o N. Adkinson, judge, making plans 0.359 mi. concrete bridge and approaches over Spring Creek, on Highway 19. $30,000. A. J. Wise, Court House, Houston, engr.

Tex., Brackettville — See "Streets and Roads."

Tex., Houston—See "Streets and Roads."

Tex., Waxahachie—Ellis Co. voted $50,000 bonds, timber, concrete and steel bridge over Onion Creek, Ellis Co. Eng. Dept., engrs. Noted Oct. 6.

Oklahoma — R. N. Higgins, engr. Beckham Co., Sayre, did not receive bids Oct. 24, 3 steel truss bridges on abutments, one 1 span 40 ft. at Erick, $25,000; one 1 span 50 ft. at Texola, $27,000; and other 1 span 60 ft. at Doxey, $30,000. Action was rescinded. Noted Nov. 13.

Okla., Cordell—State Hy. Dept., Oklahoma City, rejected bids 1 span 96 ft. steel truss bridge on piers over Washita River, on State Aid Project 499-B, highway 41, Washita Co., near here. C. R. Mandigo, Capitol, Oklahoma City, engr. Noted July 7.

Okla., Snyder—State Hy. Comn., Oklahoma City, making plans 1 span 88 ft. steel truss bridge on piers over St. Louis & San Francisco R.R. tracks, Kiowa Co., near here. $45,000. C. R. Mandigo, highway engr.

Colorado—Pueblo Co. (Pueblo) and State Hy. Dept., Denver, plan 3 timber bridges on Siloam Highway; widening 3 bridges on Walsenburg Highway; 1 bridge over Bob Creek at Boone; straightening two mi. Pueblo-Walsenburg Highway, paving 1,000 ft. West 4th St., 50 ft.; also excavating and filling Kansas-Colorado Blvd. $55,000 L. D. Blauvelt, highway engr. W. Barber, clerk, Pueblo Co.

Ore., Portland — City Council making plans and takes bids about Jan. 1, ramp or viaduct on Lovejoy St. between 9th and 14th Sts. $610,000. A. Langard, city engr.

Que., Montreal—Soon takes bids steel and concrete bridge over aqueduct, on 4th Avenue Cote St. Paul. $250,000.

Constr. News page 260

Facts You Should Know about *High-Early-Strength* Concrete

High-Early-Strength Concrete is made with the usual labor, usual materials and usual equipment—

Universal
Portland Cement
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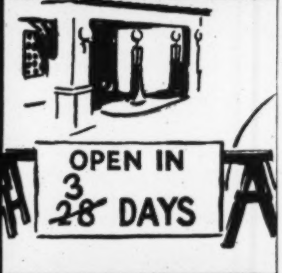
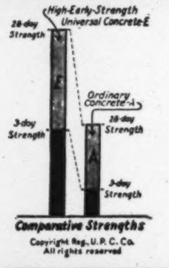
and usual Universal cement

—all applied according to fully tested methods.

At 3 *days* *High-Early-Strength* Universal Concrete is as strong as ordinary concrete at 28 *days*.



At 28 *days* it has twice the strength of ordinary concrete.



Having a higher *ultimate* strength in addition to a higher *early* strength, it is *permanently* better and stronger than ordinary concrete. (See diagram)

High-Early-Strength Universal Concrete may be made as workable as desired and used on all types of jobs.

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210 South La Salle Street, Chicago
Without obligation, please send me detailed information on methods of securing strong concrete in 3 days with the usual materials and equipment.
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Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Bridges (Continued)

Ont., Sarnia — Sarnia, Ont. and Port Huron, Mich. granted franchise to Harrington, Howard & Ash, engrs., 1012 Baltimore St., Kansas City, Mo., constructing 135 ft. suspension type bridge, 135 ft. clearance in center, two traffic lines, one each way, over St. Clair River, $4,000,000.

Bids Desired

Pa., New Castle — Dec. 12, by Comrs. Lawrence Co., J. R. Lamoree, ch. clk., constructing bridges and roads at Wampun and Chewton; adv. E. N.-R. Nov. 24.

W. Va., Stone Cliff—Dec. 7, by Fayette Co. Court Fayetteville, superstructure bridge over New River, here. J. C. Hurt, clk.; adv. E. N.-R. Nov. 24. Noted Jan. 13.

Fla., Milton — Dec. 2, by State Roads Dept., Tallahassee, 165 ft. concrete deck girder bridge on Project 585-B, Road 1, Santa Rosa Co., point 2 mi. west of here. J. L. Cresap, state highway engr.

O., Cincinnati—Dec. 9, by G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, rein.-con. and encased steel viaduct, here. $2,000,000.

Ind., Anderson — Nov. 30, by Comrs. Madison Co., rein.-con. arch bridge known as Alfonte Bridge, over Lick Creek, on north and south road at Alfonte, $28,728; and rein.-con. bridge known as Pendleton-Newcastle Pike Bridge, on Pendleton and Newcastle Pike, $4,330. C. Forkner, Anderson, aud.

Illinois — Nov. 30, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, 2 rein.-con. bridges on Route 48, Sect. 112-B Iroquois Co., two 24 ft. span rein.-con. girder bridge on Route 49, Sect. 141-B Kankakee Co., one 30 ft. and one 34 ft. rein.-con. girder bridges, also one 24 ft. rein.-con. slab bridge on Route 49, Sect. 143-B Will Co., one 120 ft. rein.-con. substructure, two 30 ft. rein.-con. approach spans and one 20 ft. rein.-con. slab bridge on Route 145, Sect. 101-B, also one 120 ft. steel superstructures on Route 145, Sect. 101-C all Massac Co., one 28 ft. rein.-con. slab bridge also one 30 ft. and one 100 ft. rein.-con. sub-structure on Route 153, Sect. 101-B and one 100 ft. steel superstructure on Route 153, Sect. 101-C all Washington Co. F. T. Sheets, ch. highway engr.

Illinois — Nov. 30, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, one 37 ft. enclosed rein.-con. I-beam and two 35 ft. rein.-con. girder span railroad overhead bridge, on Route 89, Sect. 101-V, Lee Co. F. T. Sheets, ch. highway engr.

Ill., Chicago — Nov. 29, by Bd. Local Impvts., Room 207, City Hall, superstructure single leaf trunnion bascule bridge over north branch Chicago River, Sect. "B" North Robey St. Impvt. M. J. Faherty, pres. Noted Mar. 10.

Kan., Topeka — Dec. 12, by O. B. Eddy, clk. Shawnee Co., Cooper Bridge, one 110 ft. truss and two 30 ft. deck girder spans; Reform School Bridge, one 110 ft. truss and two 30 ft. deck girder spans Button Bridge, one 110 ft. truss and two 30 ft. deck girder spans; also Tomlinson Bridge, one 100 ft. truss span. C. H. Wasson, Court House, engr.

Tex., Decatur—See "Streets and Roads."

Tex., Galveston — See "Contracts Awarded."

Calif., Victorville—Dec. 12, by Supervs. San Bernardino Co. (San Bernardino), removing present bridge and constructing approximately 230 ft. steel arch type span bridge over Majove River, on Victorville-Bear Valley Rd. To exceed $25,000. Noted July 28 under "San Bernardino."

Contracts Awarded

N. Y., Buffalo—Dept. Pub. Wks., Municipal Bldg., substructure bridges crossing in line Bailey Ave., to V. Schiavi, 599 McKinley Parkway, $211,000. Noted Sept. 29.

N. J., Ocean City—Ocean City-Longport Automobile Bridge Co., Ocean City Title & Trust Bldg., substructure and rein.-con. pile trestle, to Frederick Snare Eng. Co., 114 Liberty St., New York City; main bridge, incline and bascule span, to Phoenix Co., Phoenixville, Pa.; also approach embankment and paving, to Eastern Eng. Co., 4 N. N. Carolina St., Atlantic City, N. J. This corrects report in Nov. 10 issue.

North Carolina—State Hy. Comn., Raleigh, rein.-con. bridges, etc., on Project 286, Wayne Co., and Project 604, Alexander Co., to J. L. Brinkley, Thomasville, $29,897 and $46,191 respectively; Project 335, Columbia Co., to J. F. Kitchen, St. Paul, $46,134; Project 625, Iredell Co., to Clement-Dunarant Co., Carlotte, $91,813; and Project 182, Pitt Co., to J. S. Bowers, Whiteville, $127,744. Grand total $341,779. Noted Oct. 27.

La., New Orleans—Dept. Pub. Finances, Purch. Div., City Hall, 2 span 56½ ft. rein.-con. bridge and approaches over 17th St. Canal, on prolongation of Lake side roadway of South Claiborne St., to J. Riess, New Orleans Bank Bldg., $26,550. Noted Oct. 20.

O., Cleveland—Cleveland Union Terminal Co., Marshall Bldg., rein.-con. sub-structure viaduct and runway, Prospect Ave., to Hecker-Moon Co., 8701 Union Ave. Engrs. est. $200,000. Noted May 19.

Illinois—State Dept. Pub. Wks. & Buildings, Div Highways, Springfield, bridge on Route 122, Sect 12.3-B, Mason Co., to Midwest Constr. Co., Washington $21,044; on Route 122, Sect. 123-C, Mason Co., to Continental Bridge Co., 53 West Jackson St., Chicago, $6,919; on Route 142-A, Sect. 101-B, Wayne Co., to Zimmerly Bridge Co., Paris, $17,616; on Route 25, Sect. 7-V, Clay Co., to J. P. Lyon, Robinson, $23,736; on Route 126, Sect. 116-B, Montgomery Co., to Watt Constr. Co., Winchester, $21,984; on Route 49, Sect. 135-B, and on Route 49, Sect. 156-B, Iroquois Co., to Chernus Constr. Co., Sioux City, Ia., $16,742 and $15,845 respectively. Grand total $123,886. Sept. 15.

Ill., Chicago—Cook Co. Highway Dept., 139 North Clark St., to Oltendorf Constr. Co., Palatine, Bismer Bridge in Elk Grove Twp. $7,978, Freeman Culvert, $1,650, Culverts 1 and 2 $1,100, and Tonhy Ave. retaining wall $3,367, to Mohawk Eng. & Constr. Co., Chicago, Hersey and Ellis Bridges in Thornton Twp. $9,982, and Lawrence Ave. Bridge over Des Plaines River $53,251, also to Joliet Bridge & Constr. Co., Joliet, W. E. Kerr Bridge, $12,137. Grand total $99,465.

Ill., Chicago — Clerk Sanitary Dist. of Chicago, 910 South Michigan Ave., fabrication, erection and completion double leaf trunnion bascule bridge over Main Drainage Canal Sanitary Dist. of Chicago, at Crawford Ave., Contr. 2, to Kettler-Elliott Co., 3121 South California Ave., $427,453. Noted Sept. 29.

Nebraska—See "Streets and Roads."

Arkansas—State Hy. Dept., Little Rock, 388 ft. rein.-con. bridge on Highway 22, Sect. 4, Logan Co., to Maxwell Constr. Co., Columbus, Kan. $26,074, 63 ft. rein.-con. bridge on Highway 35, Sect. 5, Cleveland Co., to C. H. Atkinson, Chillicothe, Mo., $5,917, 514 ft. bridge on Highway 101, Sect. 2, Marion Co., to Blackshire & Blackshire, Harrison $31,030, 180 ft., rein.-con. bridge Highway 18, Sect. 4, Craighead Co., to Bunnell & Mack, Paragould $15,780, and 290 ft. timber bridge on Highway 50, Sect. 1, St. Francis Co., to United Constr. Co., 408 Lyric Bldg., Cincinnati, O. $8,327. Grand total. $87,128.

Ark., Georgetown — Missouri & North Arkansas R.R., H. J. Armstrong, ch. engr., Harrison, reconstructing pivot pier and 300 ft. draw span bridge over White River, near here, to List & Weatherly Constr. Co., Railway Exch. Bldg., Kansas City, Mo.

Tex., Galveston — Gulf Coast Dredging Co., 2311½ Ave. C, will build 1,500 ft. creosoted pile bridge, 50 ft., with swing span in center over West Galveston Bay **connecting with Pelican Spit., by day labor. $150,000.** J. E. Jacobson, 2311½ Ave. C, engr. Noted **Nov. 8.**

Oklahoma—State Hy. Dept., Oklahoma City, **(F. A. P. means Federal Aid Project, S. A. P. State Aid Project and e. e. engineers estimate)**, 3 span 300 ft. steel truss bridge on piers, 58,400 lb. reinforcing, 727 ft. concrete hand rail, etc., on S. A. P. 503-C, near Jett, Alfalfa Co., and 6 span 220 ft. rein.-con. trestle bridge, 61,920 lb. reinforcing, 843 ft. concrete hand rail, etc., on F. A. P. 213-A, near Sayre, to H. B. Garrett, 1413 West Main St., Oklahoma City, $35,014 and $39,834 respectively, e. e. $40,000 each; 2 span 140 ft. steel truss bridge on piers, 39,430 lb. reinforcing, 364 ft. guard rail, near Lawton, Comanche Co., to Inter-State Constr. Co., Lawton, $22,570 e. e. $28,000; 2 span 146 ft. steel truss bridge on piers, 53,149 lb. reinforcing, 532 ft. hand rail, etc., near Tonkawa, Kay Co., to Pioneer Constr. Co., Orear-Leslie Bldg., Kansas City, Mo., $38,650 e. e. $45,000; 1 span 65 ft. rein.-con. trestle bridge, one Hobart-Goteba Rd., Kiowa Co., to T. C. Ottinger, Hinton, $15,446 e. e. $25,000; 5 span 120 ft. rein.-con. trestle bridge, 18,220 lb. reinforcing, 262 ft. guard rail, etc., on S. A. P. 485-B, Marshall Co., to Whitson & Kirley, Ardmore, $23,575 e. e. $25,000; and 1 span 106 ft. steel truss bridge on piers, 34,310 lb. reinforcing, 309 ft. guard rail, etc., on F. A. P. 151-F, near Muldrow, Sequoyah Co., to James & Hopper, Wilburton, $17,039 e. e. $25,000. Grand total $192,128. Noted Oct. 27.

Dams

Proposed Work

Tex., Casa Piedra—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Tex., Georgetown—Georgetown Country Club soon lets contract 5 mi. earthen dam, 8 ft. high, Gabriel River. $35,000. Private plans.

Wash., Olympia—See "Unclassified."

Ore., The Dalles—See "Waterworks."

Bids Desired

N. Y., Hadley—Dec. 5, by Bd. Hudson Regulating Dist., 44 Howard St., Albany, constructing Conklingville Dam, Contr. 4, 147,000 cu.yd. earth and 115,000 cu.yd. rock excav., 704,000 cu.yd. embankment, 69,000 cu.yd. rock fill, 14,000 cu.yd. plain concrete, here. E. H. Sargent, ch. engr.; adv. E. N.-R. Nov. 24. Noted Mar. 17 under "Conklingville."

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

N. Y., Howard Beach (br. Jamaica)—M. Cosgrove, Pier "A," Battery Pl., New York City, rejected bids Nov. 14, dredging channel at Howard Beach, Jamaica Bay, here. Noted Nov. 10.

Ill., Evanston—Making preliminary plans 3,735 ft. seawall and jetties along Lake Front. A. W. Handford, City Hall, engr.

Texas—Hidalgo and Cameron Co. Water Control & Impvt. Dist. 9, c/o E. C. Rothrock, Mercedes, plans flood prevention and irrigation project, 90,000 acres land, in towns Weslaco, Edcough, Elsa, Lavilla and Mercedes. $4,500,000. Private plans.

Tex., Casa Piedra—C. L. Vasquez making surveys, etc. irrigating lands near Almiro River, tributary of Rio Grande River, to impound 480-acre ft. water annually, incl. dam, etc. in Presidio Co. $40,000. Private plans.

Tex., Ft. Worth — Tarrant Co. Water Control League, making plans flood control and water supply, incl. reservoir at Eagle Mountain and another near Bridgeport in Wise Co. $6,500,000. Hawley & Freebe, 411 Caps Bldg., engrs.

Tex., Richmond—Brazos Valley Irrigation Co., Sugarland, plans irrigating approximately 50,000 acres land, constructing series canals, etc., in Ft. Bend Co., here. $100,000 or more. Private plans.

California—F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, engr. Reclamation Dist. 2047, prepared preliminary plans reconstructing 15 mi. lower half of Sacramento River levee from Colusa to Princeton. $276,000.

Contracts Awarded

N. C., Wilson — Mayor and Bd. City Comrs., excavating 70,000 cu.yd. in Hominy Swamp, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh. Noted Sept. 1.

Louisiana — State Hy. Comn., Baton Rouge, constructing embankment on Chef Menteur Highway, Federal Aid Project, 201-G, Unit 1, St. Tammany Parish, to Gulf Coast Dredging Co., Galveston, $111,771. Noted Oct. 6.

La., New Orleans—R. B. Kohnke, engr., Orleans Levee Bd., New Court House Bldg., reconstructing St. Andrew Levee in Mississippi River between Jackson Ave. and Nun St., to Highway Constr. Co., Godchaux Bldg., $94,000. Noted Oct. 6.

Ia., Ft. Madison—L. G. Keil, aud. Lee Co., repairing Green Bay Levee, near here, raising levee, to W. Sillick, Wapello, $18,000; bank protection, to L. Plumb, Wapello, $10,000; and ditch cleaning, to C. E. Walker, Wapello, $18,000. Grand total $46,000.

Ark., Scott—Old River Drainage Dist., c/o A. L. Alexander, chn., excavating approximately 67,000 cu.yd. new levee, etc., to Harvey Brown Constr. Co., North Little Rock, $0.26 cu.yd.

Calif., Sausalito—M. F. Seymour, secy. Tamalpais Union High School Dist., dredging 75,000 yd. school athletic field fill, to Amer. Dredging Co., 255 California St., San Francisco, at $0.355 per cu.yd. Noted Nov. 17.

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1 Independent concrete pipe is built on the job, or near by—saving time and money; benefiting local business

2 Lower in first cost

3 Costs less to install

4 Joints are easier to seal

5 Little or no upkeep

6 Serves for centuries

7 Resists deterioration

8 Provides maximum flow

9 Prevents sewer leakage

10 Strength for any load

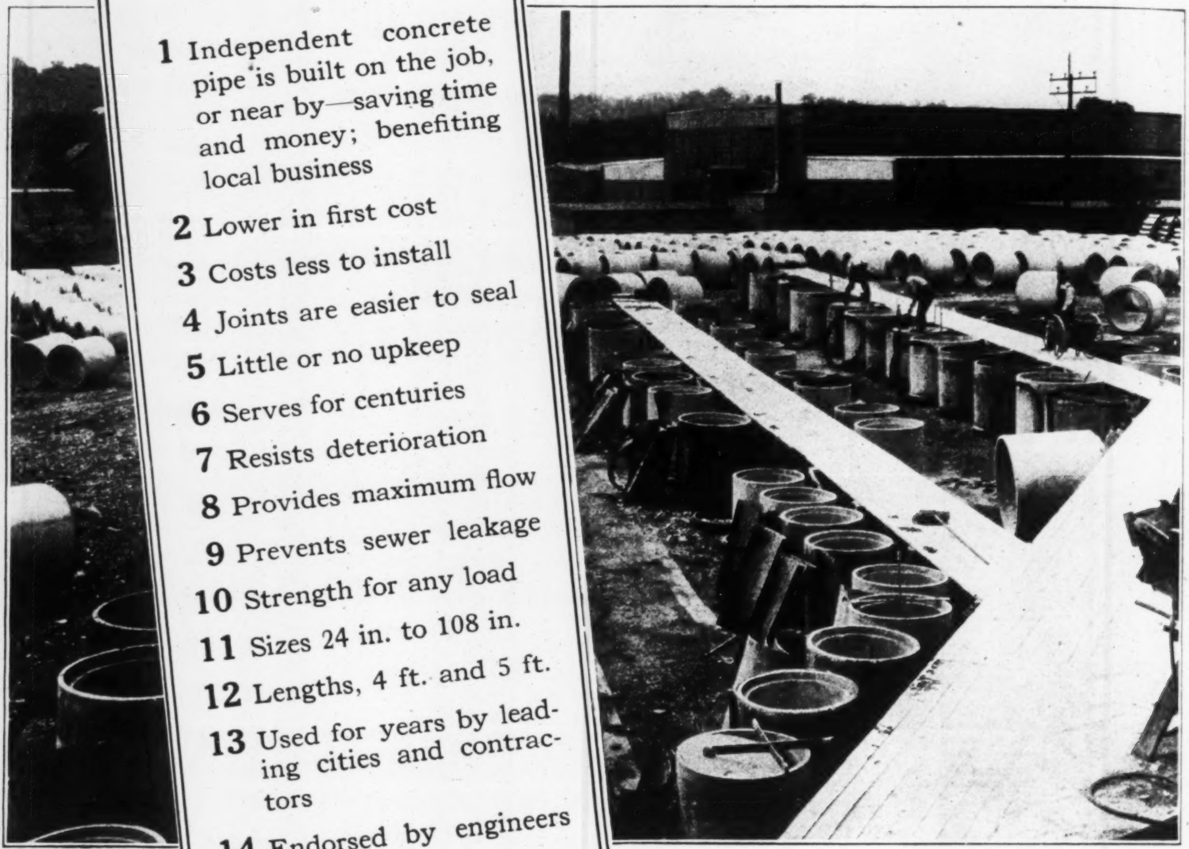
11 Sizes 24 in. to 108 in.

12 Lengths, 4 ft. and 5 ft.

13 Used for years by leading cities and contractors

14 Endorsed by engineers everywhere

15 Backed by America's largest exclusive builder of reinforced concrete sewer pipe.



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Streets and Roads

Proposed Work

Mass., Boston—See "Unclassified."

Mass., Salem—Plans laying out and building Canal St. extension, $25,000 appropriated. Private plans.

R. I., Providence — Plans constructing Nelson and Transit Sts., as highways, and curbing Grand Bway., Lyndhurst Ave., and 3rd St. $25,000 or more. Private plans.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, rejected bids Nov. 10, grading and sheet asphalt paving West 9th St. and 9th Ave. Will readvertise. Noted Nov. 3.

N. J., Lavallette — Boro, G. D. Homer, clk., plans concrete sidewalks on Ortley, Magee, Washington, White, Guyer, Bond, Brooklyn and New Brunswick Aves. $30,000.

Maryland — State Roads Comn., Baltimore, rejected bids Sept. 27, concrete paving 1 mi. Contr. M-93, Montgomery Co.; and 1 mi. Contr. F-85, Frederick Co. J. N. Mackall, chn. Noted Sept. 22.

W. Va., Gassaway—Voted $25,000 bonds, concrete paving Main St. S. Fox, recdr.

North Carolina—State Hy. Comn., Raleigh, making plans clearing, grading, etc., 4.148 mi. Project 948, Howard Co. $36,500, 5.261 mi. Project 645, Lincoln Co. $31,500, 14.576 mi. Project 6910, Union Co. $74,000, 4.186 mi. Project 917, Cherokee Co. $33,000, 18.623 mi. Project 224, Duplin Co. $102,000, and 10.063 mi. Project 4090, Durham Co. $70,000; grading and concrete or asphalt paving 4.71 mi. Project 4720, Vance Co. $108,000, 9.06 mi. Project 551, Hoke Co. $152,200, 9.659 mi. Project 8260, Cleveland Co. $200,000, 6.5 mi. Project 4441, Lee Co. $150,000, 7.94 mi. Project 3930, Robeson Co. $133,000; also clearing, grading, and small rein.-con. structures on 3.857 mi. Project 595, Rockingham Co. $25,500. L. R. Ames, Raleigh, engr.

Ga., Brunswick — Voted $75,000 bonds, paving various streets.

Miss., Canton—Madison Co. voted $2,000,000 bonds, grading, g'raveling and concrete surfacing various roads. H. C. Dietzer, Jackson, highway engr.

Miss., Laurel—Jones Co. voted $75,000 bonds, maintenance work, bridging, graveling, etc. 10 mi. Bay Springs-Laurel Rd. H. C. Dietzer, Jackson, highway engr.

Miss., Pontotoc—Pontotoc Co., making plans graveling Bankhead Highway from here south towards Houston to Chicasaw Co. line near Houlka, and surfacing Pontotoc-Oklona Highway. $600,000. H. C. Dietzer, Jackson, highway engr.

La., Delhi—Voted $65,000 bonds, grading, curbing and paving various streets. $65,000. C. D. Evans, Levy Bldg., Shreveport, engr.

La., Marksville—Avoyelles Parish voted $35,000 bonds, grading and paving various roads in Dist. 4.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids probably in December, paving 12 mi. Huntingdon-McKenzie Rd. C. N. Bass, highway engr.

Tenn., Worthburg — Morgan Co. voted $238,000 bonds, improving 15 mi. Worthing-Roane Co. line Rd.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids after Jan. 1, grading, curbing, walks and vitr. brick paving, etc. 7,545 sq.yd. Woodward Ave. $51,000. E. A. Kemmler, Municipal Bldg., engr.

O., Cleveland—See "Bridges."

O., Columbus—W. H. Duffy, dir. Service, making plans widening and asphalt repaving, etc. approximately 800 ft. West Spring St., $40,000; also widening and asphalt or brick paving, etc. 1,100 ft. East Gay St., $36,000. R. H. Simpson, City Hall, engr.

Ind., South Bend—Comrs. St. Joseph Co. making plans concrete paving 4.75 mi. Liberty Highway, $169,220. R. J. Lang, South Bend, engr.

Mich., Detroit—Making plans stone or concrete curbing, and sheet asphalt on 8 in. concrete paving 49,510 sq.yd. Russell St. and 13 avenues, $204,990. P. A. Fellows, city engr.

Ia., Centerville—Grand River D. D., Decatur Co. making plans 4.13 mi. ditch 140,000 cu.yd. excav., etc. $40,000. M. G. Hall, Centerville, consult. engr.

Minn., International Falls—Making plans paving 24,000 sq.yd. various streets. $60,000. P. C. Warner, city engr.

Kan., Dodge City—Ford Co. soon takes bids grading and sand clay surfacing 9.424 mi. US. Rd. 50-S, State Project 64. J. W. Thornburgh, Court House, engr.

Kan., Hutchinson—Reno Co. making preliminary plans widening and grading, etc. approximately 10 mi. Medora highway between Medora and Hutchinson, 15 ft. W. A. Stacey, Court House, engr.

Kan., Lincoln—Lincoln Co., made plans grading, etc. 6.846 mi. Federal Aid Project 362-E, 28 ft. A. J. Francis, Jr., Court House, engr.

Kan., Topeka—Shawnee Co. made plans grading and concrete paving 5.103 mi. U. S. Road 40, State Project 45, 18 ft. C. H. Wasson, Court House, engr.

Kan., Topeka—Shawnee Co. plans grading, concrete paving, and 4 bridges on 5.258 mi. U. S. Highway 40, State Project 45-B, 18 ft. C. H. Wasson, Court House, engr.

Kan., Ness City—Ness Co. making preliminary plans grading and bridging, etc. 15.151 mi. Road K-96, 28 ft. L. L. Hunt, Court House, engr.

Missouri—State Hy. Comn., Jefferson City, making plans 30 ft. grading approximately 103 mi. roads in 18 counties. T. H. Cutler, ch. engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making preliminary plans grading and concrete paving Landsdowne Ave. between Watson Rd. and McCausland St., $28,620, also grading between building lines between McCausland St. and city limits, $11,660. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making preliminary plans grading and concrete paving approximately 19,600 sq.yd. alleys in City Blocks 1579, 2824, 3712, 4390-A, 5277, 5457, 5458, 5744, 5939, 6041, 6042, and 188. $54,000. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, made preliminary plans grading, curbing and alternate types paving, etc. Fendler Pl., Estella, Fyler, Marcus, Montrose and Greer Aves., 8th, Howel, Lena, O'Meara, Alaska, Alabama, Theresa, Palm, Labadie and Vandeventer Sts. W. W. Horner, 300 City Hall, engr.

Tex., Archer City—Archer Co. made plans grading and one bridge over 20 ft. span, on 8.978 mi. Highway 79, Federal Aid Project 532-D, Unit 1, 26 ft. $32,338. G. R. Johnson, Archer City, engr.

Tex., Batesville—Zavalla Co. made plans grading and bridging 31.2 mi. Highway 55, 26 ft. $90,600. G. M. Jowers, 456 Kayton Ave., San Antonio, and Crystal City, engr. Noted Oct. 20.

Tex., Bellville—Austin Co. made plans rein.-con. Bates type paving 9.16 mi. Highway 36, Federal Aid Project 433-A, Unit 2, 18 ft. $200,000. H. Schroeter, Bellville, engr.

Tex., Brackettville—Kinney Co. making plans grading and 8 bridges over 20 ft. span on 18.711 mi. Highway 3, 26 ft. $128,300. W. F. Hutson, Brackettville, engr.

Tex., Canyon—Randall Co. making plans grading and bridging 5.522 mi. State Highway 9 from Canyon City north, 26 ft. Engrs. est. $30,000. R. E. Dyatt, Canyon, engr.

Tex., Clairmont—Kent Co. making plans grading and bridging, 22.467 mi. State Highway 84 from Clairmont to Fisher Co. line., 26 ft. $124,500. Nagle, Witt, Rollins & Gilchrist, Allen Bldg., Dallas, engrs.

Tex., Corsicana—Navarro Co. voted $135,000 bonds, constructing various roads, etc. Address W. Hicks, Corsicana, judge.

Tex., Galveston — Making preliminary plans paving 10 blocks Ave. B, from 8th to 16th Sts. Engrs. est. $50,000. C. A. Holt, Galveston, engr.

Tex., Graham—Young Co. making plans grading and bridging 12.164 mi. Highway 24, 26 ft., $90,000. G. R. Johnston, Graham, engr.

Tex., Groesbeck — Limestone Co. takes bids about Dec. 1, concrete and asphalt paving 7.5 mi. Highway 14 from Freestone Co. line to Mexia and north of Navasota River. $175,000. C. L. Williford, Mexia, engr.

Tex., Houston—Harris Co. making plans grading and bridging 10.326 mi. Highway 6, Federal Aid Project 466-B, Unit 1, 26 ft. $70,000. A. J. Wise, Court House, Houston, engr.

Tex., Laredo—Takes bids in January, alternate types paving approximately 50 blocks, various streets. $175,000. F. C. Heines, city engr. M. M. Leyendecker, Jr., assists in preparing the plans. Noted Sept. 29.

Tex., Madisonville—Madison Co. voted $800,000 bonds, hard paving approximately 24 mi. main highway between Dallas and San Antonio. Address S. S. Strahan, Madisonville, co. engr.

Tex., Mexia — Defeated $50,000 bonds, paving various streets. J. G. McIntosh, city mgr.

Tex., San Antonio—See "Unclassified."

Tex., Sweetwater—Nolan Co. making plans 2½ in. bituminous macadam on gravel surfacing 3.783 mi. Highway 70, Federal Aid Project 511-A, 26 ft. $89,500. S. C. Dougherty, Sweetwater, engr.

Oklahoma—State Hy. Dept., Oklahoma City, rejected bids Nov. 8, grading and rein.-con. or 2½ in. brick on 5 in. concrete paving 71,797 sq.yd. Bristow-De Pew Rd., Federal Aid Project 136-D, Creek Co. $175,000. C. R. Mandigo, Capitol, Oklahoma City, engr. Noted Nov. 3.

Okla., Ada—Making plans grading, curbing and 6 in. concrete paving 9,875 sq.yd. streets in Dist. 24. $31,319. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Okla., Clinton—Plans grading and 6 in. concrete paving 9,600 sq.yd. various alleys. $29,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Fairview—Plans grading and 6 in. concrete paving 9,200 sq.yd. 7th St. $29,107. E. A. Jones, Enid, engr.

Okla., Frederick—Plans grading, curbing and 6 in. concrete paving 9,200 sq.yd. Dahlia Ave. $30,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Oklahoma City—Rejected bids grading and paving 26 blocks Bath, Kelham, Rhode Island and Nebraska Sts., 26 ft. $98,621. Noted Sept. 1.

Okla., Prague — Making plans grading, curbing and 7 in. concrete paving 12,400 sq.yd. Park and Main Sts. $37,242. Long & Co., 1300 Colcord St., Oklahoma City, engrs.

Okla., Sallisaw—Voted $110,000 bonds, paving 26 blocks Dist. 1, 26-40 ft. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Weleetka—Defeated $25,000 bonds, grading and paving 4 blocks Chickasaw Ave. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Nov. 3.

Colorado—State Hy. Dept., Denver, plans concrete paving 3 mi. road between Pinon and El Paso Co. line, Pueblo Co., 16 ft. $110,000. L. D. Blauvelt, highway engr.

Calif., Compton—Plans 5 in. vibrolithic concrete paving, etc. 6th and Peach Sts., etc. To exceed $25,000. G. Rood, city engr.

Calif., Los Angeles — Plans extending North Figueroa St., incl. tunnels under Eylsian Park. $3,000,000. J. Shaw, city engr.

Calif., Lynwood—Plans curbing, walks and 6 in. concrete paving, etc. Golden Ave. and Louise St., etc. To exceed $25,000.

Calif., San Diego — Common Council plans curbing, surfacing, walks and 6 in. asphaltic concrete paving, etc., 125,310 sq. ft. Dewey and 26th Sts.; curbing, walks and 7 in. concrete paving, etc., 511,807 sq. ft. Main, Beardsley and 26th Sts.; also grading, curbing, walks, 6 in. asphaltic concrete paving 347,462 sq.ft. and 6 in. concrete paving 185,989 sq.ft. Everett Ave., 28th and Sampson Sts., etc. H. W. Jorgensen, city engr.

Calif., San Mateo—City Trustees take bids about Dec. 5, grading, paving, curbing and concrete paving, etc. 111,000 sq.ft. Woodside St., etc. O. F. Weissgerber, city engr.

Ont., Strathroy—Middlesex Co. (London), making plans concrete paving 20,000 sq.yd. Caradoc and Metcalfe Sts., here. $65,000. G. Talbot, County Bldgs., London, engr.

Ont., Toronto—Making plans brick block on concrete paving 1,900 ft. Caledonia Ave., $34,673; also brick guttering and asphalt on concrete paving 700 ft. Sydney Ave. $12,715, both 28 ft. F. B. Goedike, 40 Jarvis St., engr.

Ont., Toronto—York Twp. making plans concrete curbing, guttering, and bituminous concrete on concrete paving Clovelly Ave. $25,000. F. B. Goedike, 40 Jarves St., engr.

Bids Desired

Connecticut—Nov. 30, by J. A. Macdonald, comr., State Hy. Dept., Hartford, rein.-con. paving roads in Haddam, North Branford, North Haven, Glastonbury, Norwalk, Milford, Danbury, Ridgefield, and Newton; waterbound macadam paving roads in Washington, Clinton, Westbrook and Mansfield; and steel sheet piling bulkhead and dredging basin at Guilford Sluice, in Guilford; adv. E. N.-R. Nov. 24.

N. Y., Brooklyn—Nov. 30, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading and flagging Pitkin and Franklin Aves., 63rd and East 19th Sts.; grading and granite block paving Lombardy St.; grading and asphalt paving Colonial Rd., Kenmore Pl., Engert Ave., Avenues T and M, East 32nd, 1st, 59th, 85th and 53rd Sts.

N. Y., Long Island City — Nov. 28, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and sidewalks on 103rd (Kimball) Ave. and Hosack St.; grading and granite block on concrete paving South Jane St.; also grading and sheet asphalt paving 90th Ave. 109th, Hosack Sts., etc.

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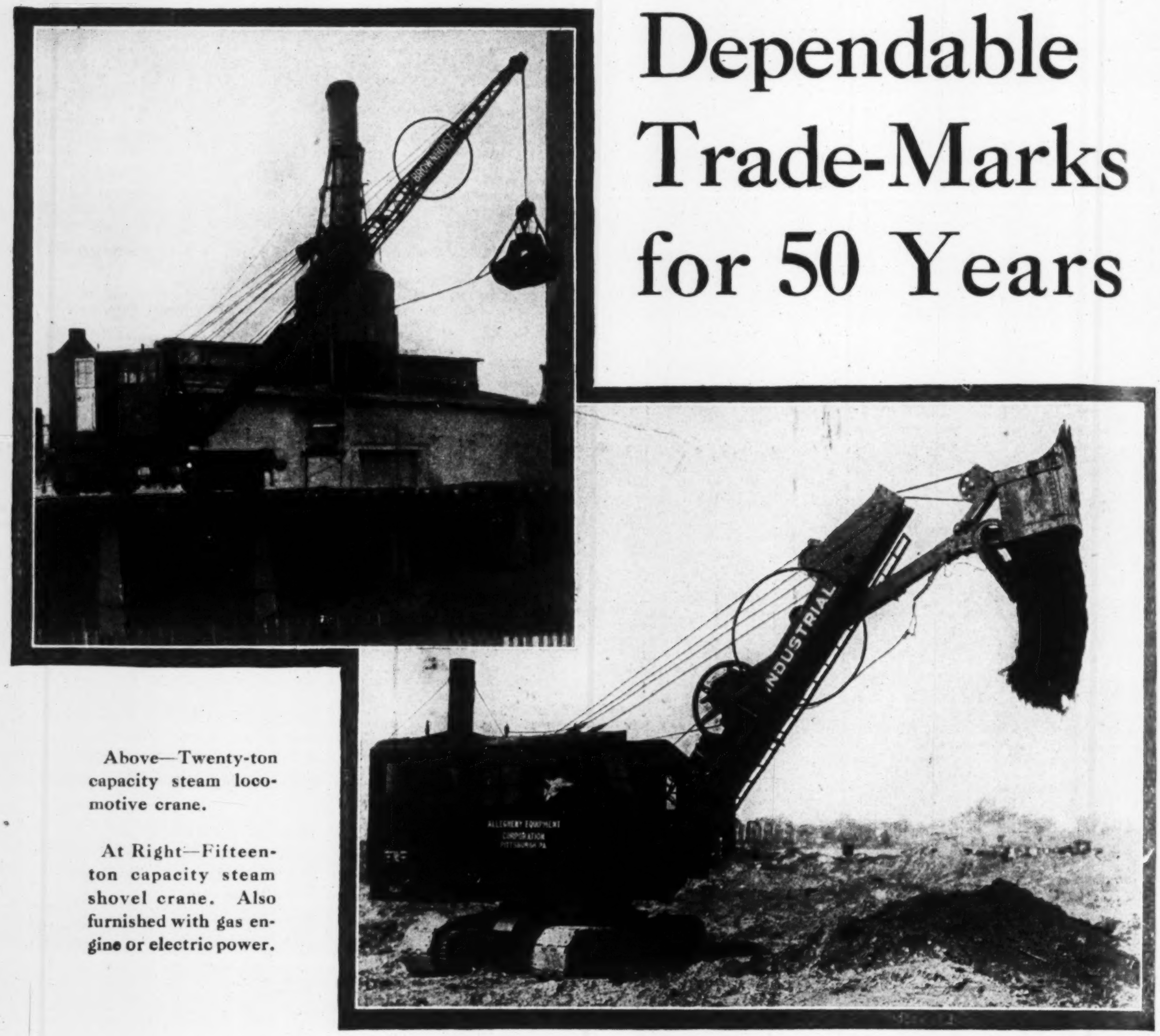
Dependable Trade-Marks for 50 Years



Above—Twenty-ton capacity steam locomotive crane.

At Right—Fifteen-ton capacity steam shovel crane. Also furnished with gas engine or electric power.

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INDUSTRIAL BROWNHOIST

Streets and Roads (Continued)

N. Y., New York—Nov. 29, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., constructing roadway from Bronx River Parkway near East 229th St. to connect with Bronx River Parkway near 233rd St.

N. J., Cape May — Dec. 14, by Bd. Freeholders Cape May Co., gravel on sand fill resurfacing 44,093 sq.yd. Meadow Section Sea Isle Blvd., Dennis Twp. R. F. Smith, Marmora, co. engr.; adv. E. N.-R. Nov. 24.

Pa., New Castle—See "Bridges."

Md., Baltimore—Dec. 30, by Bd. Awards, sheet asphalt paving 9,850 sq.yd. streets listed Contr. 442. N. L. Smith, City Hall, highways engr.

Ala., Birmingham — Dec. 20, by City Comn., 2 in. asphalt on 5 in. concrete paving, etc., 10 blocks 50th St., 14th Ave. and Woodlawn Rd. $70,950. A. J. Hawkins, city engr.

Ala., Birmingham — Dec. 30, by City Comn., curbing, guttering, walks and 2 in. asphalt on 5 in. concrete paving, etc., 16 blocks 10th Ave. N., $98,500, and 2 in. asphalt on 5 in. concrete paving, etc., 1 block 48th St. $6,850. both 40 ft., also 2 blocks Ave. Z, Ensley $12,560, 6 blocks 21st Ave. N., and Scouts Rd. $32,520, both 30 ft.; also 5 in. concrete paving 1 block Aberdeen Rd. $1,980, and 1 block 9th Court Alley S., $1,570, both 20 ft. A. J. Hawkins, city engr.

Miss., Brookhaven—Taking bids paving various streets. $100,000. Address City Engineer.

Louisiana—Dec. 15, by State Hy. Comn., Baton Rouge, 2 in. Warrenite bitulithic, 2 in. bituminous concrete (modified Topeka type) or 2½ in. sheet asphalt wearing surface on 7-5-7 in. concrete paving 12.935 mi. Bossier City-Arkana Highway, Federal Aid Project 154-A, Bossier Parish. N. W. Bowden, highway engr.

Louisiana—Dec. 22, by State Hy. Comn., Baton Rouge, graveling 6.057 mi. Albany-Hammond Cut-off Highway, State Project 575, Livingston and Tangipahoa Parishes, N. W. Bowden, highway engr.

Tenn., Knoxville—Nov. 29, by Director Pub. Serv., curbing, guttering and 3,000 sq.yd. concrete sidewalks on various streets, $25,000; also asphaltic concrete paving 4,900 sq.yd., and surface treated macadam paving 3,300 sq.yd. various streets, $50,000. W. W. Mynatt, City Hall, engr.

Ind., Crawfordsville—Dec. 6, by Comrs. Montgomery Co. at office B. E. May, aud., concrete paving R. L. Rose et al. Rd. $44,526, George Shackelford et al, Rd. $13,102, Paddock, Schoen & McManama, et al. Rd. $19,227, John H. McClure et al. Rd. $34,933, and G. W. Corn et al. Rd. $26,891.

Ind., Evansville—Dec. 5, by Comrs. Vanderburgh Co., grading and bituminous macadam paving Darmstadt Rd. $143,780. S. Bell, Evansville, aud.

Ind., Wabash—Dec. 6, by Comrs. Wabash Co., Court House, grading and graveling 14,165 ft. Jos. L. Elliott et al. Rd. $27,593, and 4,181 ft. Nathan Gilbert et al. Rd. $6,736. W. Beauchamp, Wabash, aud.

Illinois—Nov. 30, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, enocrete, vitr. brick with asphalt filler, or bituminous concrete paving 0.56 mi. Route 14, Sect. 5-X, Franklin Co., 0.55 mi. Route 48, Sect. 112, Iroquois Co., 6.58 mi. Route 49, Sect. 141, Kankakee and Will Counties, 5.16 mi. Route 49, Sect. 142, Will Co., 4.71 mi. Route 49, Sect. 143, Will and Cook Counties, 3.27 mi. Route 102, Sect. 102, Adams Co., 3.98 mi. Route 116, Sect. 109, Woodford Co., 4.1 mi. Route 145, Sect. 101, Massac Co., and 5.63 mi. Route 153, Sect. 101 Washington Co.; also grading 1.45 mi. Route 145, Sect. 101-A, Massac Co. F. T. Sheets, ch. highway engr.

Illinois — Nov. 30, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, paving 5.3 mi. Route 131, Sect. 109; and grading 5.9 mi. Route 131, Sect. 108-A, both Cumberland Co. F. T. Sheets, ch. highway engr.

Ia., Marshalltown—Nov. 30, at office Auditor Marshall Co., improving Laurel-Gilman Rd., 55,000 cu.yd. excav., 20,000 units overhaul, etc. D. C. Elder, Marshalltown, co. engr.

Tex., Decatur—Wise Co., c/o C. Faith, co. judge, Decatur, taking bids grading and bridging 6.05 mi. Highway 39, State Aid Project 753-B. O. W. Hunn, Decatur, engr.

Tex., Houston—Dec. 1. by Harris Co., c/o H. L. Washburn, aud., asphalt topping Market St. Rd., Sect. 2, 87,062 gal. asphalt. etc. $26,000. Howe & Wise, Court House, engr.

Okla., Oklahoma City—Taking bids grading, curbing and 7 in. concrete paving 18,210 sq.yd. 16th, Sycamure, Bath and Kelham Sts. $57,816. B. M. Hart, City Hall, engr.

Okla., Oklahoma City—Nov. 29, by M. Peshek, city clk., grading, curbing and 7 in. concrete paving 7,660 sq.yd. Dean Pl., East 14th St., and Phillips Ave. $29,462. B. M. Hart, City Hall, engr.

Wash., Burlington—Dec. 1, by City Council, concrete sidewalks and paving Orange Ave., Alder St., et al. $40,000.

California—Dec. 5, by State Hy. Dept., Sacramento, grading and crushed gravel or stone surfacing, etc., 11.8 mi. roadway between Little Sycamore and Latigo Creeks; also approximately 21.4 mi. pipe line between Bicolas Creek and Los Angeles, all foregoing in Ventura and Los Angeles Counties. R. M. Morton, Strub Bldg., Sacrameto, engr.

Calif., San Diego—Dec. 5, by Common Council, grading, curbing, walks and 6 in. asphaltic concrete paving, etc., 240,203 sq. ft. Robinson Ave., etc. H. W. Jorgensen, city engr.

Calif., San Luis Obispo—J. Driscoll, clk. San Luis Obispo Co., taking bids grading, guttering, walks and asphaltic concrete paving, etc. 134,720 sq.ft. Rd. Dist. Impvt. 4. To exceed $30,000.

Calif., San Mateo—Dec. 5, by City Trustees, 4 in. concrete walks and 6 in. concrete paving, etc. 86,000 sq.ft. Studio Tract sub-division. O. F. Weissgerber, city engr. Noted Oct. 27.

Calif., Ventura — L. E. Hollowell, clk. Ventura Co., taking bids surfacing, etc., approximately 190,000 sq.ft. Santa Ana Rd. C. W. Petit, co. surv.

Calif., Yuba City—Dec. 6, by A. Brown, clk. Sutter Co., grading and asphalt surfacing, etc. 74,000 sq.yd. Walton Ave., etc., Dist. Impvt. 3. O. W. Lanzendorf, Yuba City, co. engr. Noted Nov. 3.

Contracts Awarded

Mass., Boston—Dept. Pub. Wks., Boston, sheet asphalt paving Aldrich St., etc., Wards 20 and 11, to C. Caponi, 11 Hemlock St., Roslindale, $29,138. Noted Oct. 27.

Mass., Boston—Park Dept., 33 Beacon St., grading Fens, Back Bay Dist., from J. C. Coleman & Sons Co., 1620 Tremont St., $25,940. Noted Nov. 3.

N. Y., Albany—Bd. Contr. & Supply, City Hall, to E. B. Stevenson, 443 Bway., improving Homestead Ave., $14,900, Joelson Court $26,684, and Helderberg Ave. $4,320, to Sheehan Contg. Corp., 51 Chapel St., Ryckman Ave. $21,454; and to M. F. Dollard, Jr., 87 Lexington Ave., grading Magazine St. $8,057, and concrete walks on McAlpin St. $1,782. Grand total $77,197. Noted Oct. 20.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading, curbing and flagging Autumn and Troy Aves., to R. Lynster, 454 East 49th St., $2,208 and $1,927 respectively. Noted Nov. 3.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Welsh Bros. Contg. Co., 32 Queens St., Astoria, grading and paving 43rd Ave. $2,239, 56th St. $3,474, and 149th Pl. $2,375; to C. Kurth, 9519 126th St., Richmond Hill, 143rd St. $4,304, 139th St. $3,712, and 156th St. $1,481; to J. D'Amato, 220 Beach and 80th St., Rockaway, Jamaica Bat Blvd.; to J. J. O'Brien, Jr., Williams St., Jamaica, 144th Pl. $4,190, 29th St. $1,536, and Myrtle Ave. $1,488. Noted Nov. 10.

N. Y., Syracuse — Bd. Contr. & Supply, widening and paving Hickory St. and West Fayette Ave., to T. J. Cadin, Syracuse, $11,152 and $26,535 respectively; Erie Blvd., to Dempsey & Ballard, Syracuse, $75,132; Blossom Rd., etc. to J. H. Gallup Co., Merchants Bank Bldg., $28,611; and Buternut Tracy Sts., etc., to G. B. Dickinson, Union Bldg., $23,165. Grand total $164,595. Noted Sept. 22.

New Jersey—State Hy. Comn., Trenton, grading and rein.-con. paving 3.5 Route 41• (Revision 1927) Sect. 1, Fairview to Runnemede, Gloucester and Camden Counties, to M. Staub, Pitman, $306,502. Noted Oct. 27.

Maryland — State Roads Comn., Baltimore, concrete paving 1.96 mi. Contr. AA-50, Anne Arundel Co., to Christhilf & Ensey Co., 1625 Ridgley St., Baltimore, $37,427; and macadam resurfacing 2.77 mi. Contr. H-58, Harford Co., to H. T. Campbell & Sons Co., Towson, $46,484.

Ala., Birmingham — City Comn. **(e.e. means engrs. est.)**, to H. N. Bowdry, Alabama Power Co. Bldg., 2 in. asphalt on 5 in. concrete paving, etc. 9 blocks Graymont Ave., 30 ft., $44,924 e.e. $81,700, and 2 blocks 50th St. from 1st Ave. N. to Georgia Rd. 40 ft., $13,446 e.e. $14,500; to Morgan-Hill Paving Co., Woodward Bldg., 6 blocks Ave. G, Ensley, 30 ft. $20,891 e.e. $23,500, 1 block 7th St., Ensley, 40 ft. $5,642 e.e. $6,700, and 6 blocks Ave. H, Ensley, 20 ft. 18,006 e.e. $20,500; to Concrete Service Co., 4717 1st Ave. N., 4 blocks 80th Pl., 30 ft. $17,349 e.e. $19,350, and 8 blocks 3rd Ave. S., 85th and 86th Sts. $39,776 e.e. $42,000, to Southern Roads Co., Pioneer Bldg., 4 blocks 50th St. from 1st Ave. N. to 5th Ave. S. $18,043 e.e. $25,200, to Independent Paving Co., 3828 1st Ave., 2 blocks 3rd Ave. N. and 4th Ave. S. $9,899 e.e. $10,500, to Dunn Constr. Co., Lincoln Life Bldg., 4 blocks 4th Ave. S. $26,519 e.e. $30,500, to J. L. Mullarky, 2400 Ave. J., 1 block 5th Ave. S. $6,322 e.e. $7,500 and to Camp & Pearson, Amer. Trades Bank Bldg., 1 block 12th St., $4,299 e.e. $5,200, all foregoing 40 ft. wide. Grand total $225,016. Noted Oct. 6.

Louisiana — State Hy. Comn., Baton Rouge, graveling 7.12 mi. Creston-Saline Highway, State Project 426-B, Natchitoches Parish to H. E. Machen, Winnfield,, $52,038. Noted Oct. 6.

La., Baton Rouge—Police Jury Baton Rouge Parish, grading and 2 in. block top on 5 in. concrete paving Weller Ave. from Standard Oil gates to Plank Rd. to Jones Constr. Co., Baton Rouge, $28,127. Noted Oct. 20.

Indiana—J. D. Williams, dir. State Hy. Comn., Indianapolis, concrete paving 1.302 mi. road in Greene Co., to Burch Constr. Co., Madison, Wis., $20,949. Noted Sept. 22.

Ind., Goshen—Elkhart Co., grading and graveling 1 mi. F-3 Rd., to D. H. Fisher, New Paris, $8,270; 2,696 ft. F-4 Rd., and 9,100 ft. G-4 Rd., to Concord Constr. Co., Elkhart, $2,960 and $11,430 respectively. Grand total $22,660. Noted Oct. 27.

Ind., Lagrange — Comrs. Lagrange Co., graveling W. Haskins Rd., to C. E. Rontsong, Mongo, $11,324; S. Devenbaugh Rd., to W. M. Shivly, Churubusco, $8,977; and B. Bovee Rd., to G. Rasler, Lagrange, $11,555. Grand total $31,856. Noted Nov. 3.

Mich., Detroit—For one course 6 in. concrete paving 14,000 sq.yd. Alleys 2459-69 (inclusive), 18 and 20 ft., 9 alleys, to Cement Paving Co., 606 Woodward Ave., $23,055; and 2 alleys, to Lennane & McIlvenna, 7777 West Chicago Blvd., $2,640.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, paving Route 49, Sects. 135 and 136, Iroquois Co., to Harrison Eng. & Constr. Co., Mutual Bldg., Kansas City, Mo. $277,491, Route 6, Sect. J-W-1 Cook Co., to Carey & Kelley Co., Chicago $51,198, Route 122, Sect. 123, Mason Co. to H. A. Carpenter, Evansville, Ind. $165,509, Route 130, Sect. 122, Jasper and Richland Counties, to J. I. Ransom, Palestine $100,295, Route 64, Sect. 130, and grading Route 6, Sect. J-R-1, Du Page Co., to W. A. Black Co., 565 West Washington Blvd., Chicago $387,794 and $8,005 respectively, Route 142-A, Sect. 101-A Wayne Co., to King & Sheahan, Dudley $50,700, and Route 63, Sect. 631-A, Kane and Cook Counties, to Burch Constr. Co., Madison, Wis., $101,995. Grand total $1,142,987. Noted Sept. 15.

Ill., Chicago—Cook Co. Highway Dept., 139 North Clark St., paving Harlem and Lawrence Aves., to Chicago Heights Coal Co., Chicago Heights $111,479 and $192,145 respectively, Archer Ave., to A. Ward & Son, Lansing $218,476, Western Ave., to G. H. Summerville, Harvey $157,653, Demster St., to Arcole Constr. Co., Evanston $25,001 and Harlem Ave., to J. P. O'Keefe, 79th and Ashland Aves. $40,540; also widening 95th St., to States Impvt. Co., 160 North La Salle St., $37,792. Grand total $783,088.

Minnesota—State Hy. Comn., St. Paul **(F.A.P. means Federal Aid Project and S.A.P. State Aid Project)**, concrete paving 115,500 sq.yd. S.A.P. 5-31, Sect. 1, F.A.P. 380, 29,000 sq.yd. S.P. 5-36, B and C, F.A.P. 345, and 45,600 sq.yd. S.P. 51-21, F.A.P. 288, to C. F. Sculley Equipment Co., 212 Dakota Bldg., St. Paul, $241,275; grading, etc. 179,000 cu.yd. S.P. 4-41, F.A.P. 406, to Olson & Carlson, 3338 Lyndale Ave. N., Minneapolis $69,114, and 220,000 cu.yd. S.P. 7-40, Sect. 2, F.A.P. 365, to Volden Bros., Milan $77,636; also grading and culverts on 741,000 cu.yd. S.P. 20-34, F.A.P. 411, to Nolan Bros., 18 North 2nd St., Minneapolis $330,069, and 222,500 cu.yd. S.P. 4-42, F.A.P. 406, to DeRuyter Bros., Renville $74,790. Grand total $792,884. Noted Oct. 27.

Nebraska—R. L. Cochran, state highway engr., Lincoln, grading, etc. 1.1 mi. Project 310-A, Greeley Co., to Diamond Eng. Co., Grand Island $25,950, and 4.5 mi. Project 607-A, Gage Co., to Koehler Constr. Co., Sterling $9,850; graveling 4.5 mi. same road, to A. Davison, Beatrice $5,932, 15.7 mi. Project 268-A, Pierce Co., to C. W. Smith, Plainview $39,240, 7 mi. Project 136-K, Pierce Co., to Stevens Bros., St. Paul, Minn. $7,440, and 11 mi. Project 27, Saunders Co., to Central Bridge & Constr. Co., Wahoo $7,080; constructing bridge on Project 113-C, Knox Co., to G. W. Condon Co., 223 Grain Exch. Bldg., Omaha $3,019, and 3 bridges on Schuyler-Pilger Rd., Proj-

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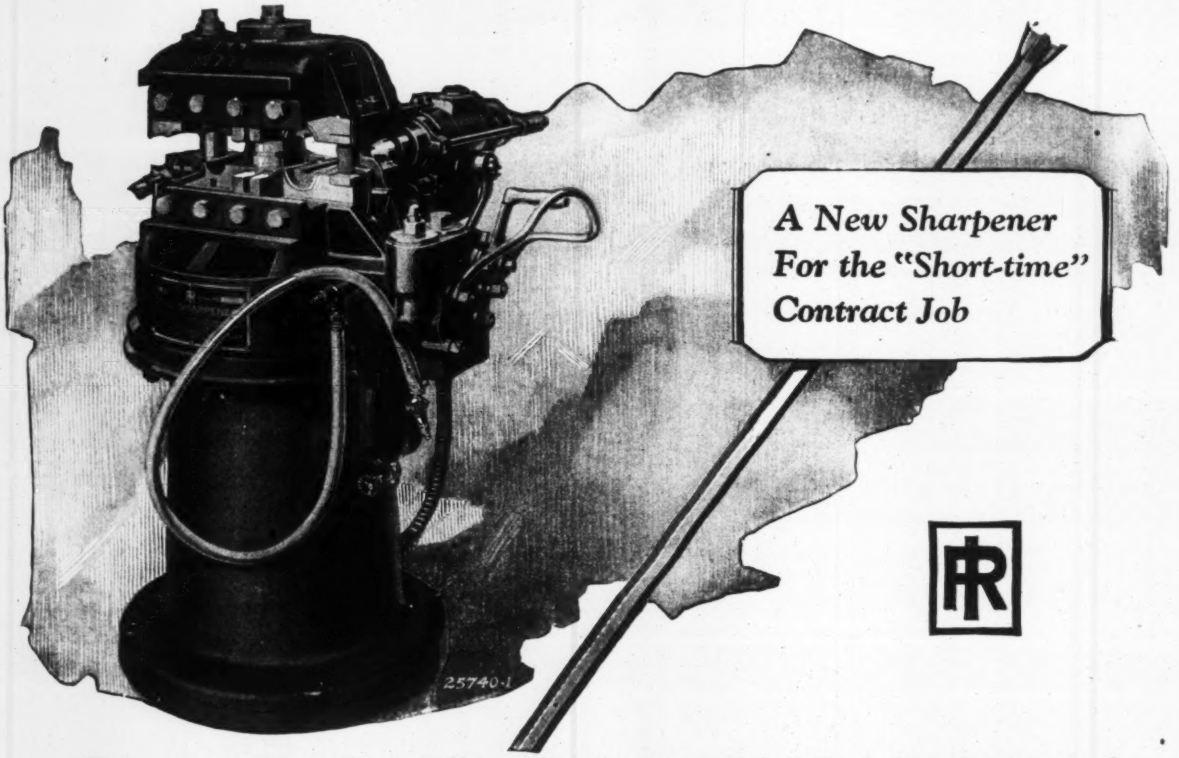
No. 34 Leyner drill sharpener is designed especially for sharpening and shanking "Jackhamer" steels



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The following new refinements have been incorporated in this machine:

- Air reservoir in the base
- Greater movement of crosshead
- Adjustable hammer cylinder
- Dolly spring carriage
- Large vertical type piston valve
- Wider and longer form spaces
- More powerful hammer
- Enclosed air passage
- Positive lubricating systems
- Snap piston rings
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Streets and Roads (Continued)

ect 261-B, Colfax Co., to Fremont Constr. Co., Fremont $8,388; also culverts on 4.5 mi. Project 607-A, Gage Co., to Keim Constr. Co., Tecumseh $15,063. Grand total $99,819. Noted Oct. 13.

Neb., Lincoln—Vitr. brick paving 2.210 sq.yd. streets in Repaving Dist. 93, to Martin-Day Co., 312 Little Bldg., $9,187; brick paving 470 sq.yd. Alley Paving Dist. 182, to Reimers Kaufman Co., 16th and West Sts. $1,028, and 4,220 sq.yd. Paving Dist. 659, to Roberts Constr. Co., 404 1st Natl. Bank Bldg. $17,692; also asphaltic concrete paving 4,250 sq.yd. Paving Dist. 761, to Cochrane Constr. Co., 822 1st Natl. Bank Bldg., $12,601. Grand total $40,508.

South Dakota—State Hy. Comn., Pierre, graveling, etc. approximately 21,600 cu.yd. Federal Aid Project 205, Deuel Co., to Deuel Co., C. Johnson, co. highway supt., Clear Lake.

Missouri—State Hy. Comn., Jefferson City, gravel shoulders on 0.354 mi. Macon-Moberly Rd.. Macon Co., to H. Tidd, Brookfield $7,929; 18 ft. graveling 18.884 mi. Jefferson City-Rolla Rd. Maries Co., to Lahar Bros., Springfield $23,029, and 1.28 mi. St. Joseph-Hannibal Rd., Macon Co., to J. L. Simmons, La Plata $2,437; grading and 18 ft. concrete paving 0.744 mi. Kansas City-Liberty Rd., Clay Co., to E. D. Lyner Constr. Co., Kansas City $28,989, and 1.235 mi. Hannibal-St. Joseph Rd., Macon Co., to Excelsior Springs Co., Excelsior Springs $24,432. Grand total $86,816.

Mo., St. Joseph—To J. F. Buis, Mertland Apts., grading Bway. between 10th St. and St. Joseph Ave. $308, alley between Penn and Mitchell Sts. from 29th to 30th Sts. $203, and alley north of Faraon St. between 16th and 17th Sts. $216, to Bean Constr. Co., St. Joseph, grading 34th St. between Mitchell and Monterey Sts. $1,680, to Duncan & Kelley, 1st State Bank, Krug Hill Spur $22,362, to M. Haase, 2823 Sacramento Ave., Krug Park entrance $9,670, and Northwest Extension to St. Joseph Ave. $3,332; to Whitham Contg. Co., 911 Corby St., 6 in. concrete paving alley between Missouri and Colorado Sts. $1,599, and alley west of King Hill $942, also to Judson Eng. & Constr. Co., 1811 Faraon St., 1,126 sq.yd. Rosine St. $4,713. Grand total $45,025.

Arkansas—State Hy. Dept., Little Rock, grading, etc. 12 mi. Highway 24, Sect. 5, Nevada Co., to S. B. Boyd, Columbia, Miss. $52,754, 16 mi. Highway 35, Sect. 3, Grant Co., to Hope & Lybrand, Sheridan $82,630, 7 mi. Highway 24, Sect. 5, Pike Co., to Richardson Ayres, Hope $41,878, 9 mi. Highway 70, Sects. 6 and 7, Hot Springs and Montgomery Counties, to G. W. Nichols & Son, Hot Springs $63,646, 9 mi. Highway 11, Sect. 14, Independence Co., to Ware Constr. Co., Little Rock $86,346, and 4 mi. Highway 67, Sect. 9, Saline Co., to S. E. Evans, Clarkville $25,745; grading 8 mi. Highway 67, Sect. 21, Randolph Co., to W. J. Runyon Paving Co., Sheffield $202,645; grading and graveling, etc. 2.8 mi. Highway 67, Sect. 18, Lawrence Co., to Gibson & Robins, Hoxie $14,091, 6 mi. Highway 67, Sect. 21, Randolph Co., to Davis Constr. Co., Boonville, Mo. $83,221. Grand total $652,956.

Tex., Alice—For 3 in. asphalt surfacing 25 blocks streets south of Texas-Mexico Ry., to Southwest Bitulithic Co., Gunter Bldg., San Antonio, approximately $72,000. Noted Oct. 13.

Tex., Ballinger—S. D. Raby, mayor, paving approximately 55,000 sq.yd. various streets, to Brown & Root, Georgetown, $110,000.

Tex., Brownsville—For 3 in. asphalt paving approximately 24 blocks various streets, to Southwest Bitulithic Co., c/o Gunter Bldg., San Antonio, approximately $45,000.

Tex., Cameron—Double bituminous surfacing 100 blocks residential streets, to Brown & Root, Georgetown, approximately $82,000.

Tex., Lockney—See "Unclassified."

Oklahoma—State Hy. Dept., Oklahoma City (**F.A.P. means Federal Aid Project, S.A.P. State Aid Project and e.e. engineers estimate**), grading, etc. 12.085 mi. S.A.P. 503-A, B and C, incl. bridge, Alfalfa Co., also 8 mi. S.A.P. 226 C and D Kiowa Co., to T. C. Ottinger, Hinton, $40,749 and $32,750 respectively e.e. $45,000 and $35,000 respectively, 21.584 mi. F.A.P. 213-A, B and C, and 0.762 mi. F.A.P. 160, Beckham Co., to Maney & Allen, Empire Bldg., Oklahoma City, $74,543 and $3,941 respectively, e.e. $95,000 and $6,000 respectively, 8.9 mi. S.A.P. 513-A and B, Carter Co., to D. F. Allen, Ardmore, $49,117 e.e. $55,000, 5.1 mi. S.A.P. 446-A and B, incl. bridge Comanche Co., to Interstate Constr. Co., Lawton, $22,421 e.e. $30,000, 6.78 mi. S.A.P. 226-E, Kiowa Co., to R. R. Tway, Continental Bldg., Oklahoma City, $31,137 e.e. $35,000, 9.3 mi. F.A.P. 182-F, and 5 mi. F.A.P. 182-D, Pittsburg Co., to Hamilton Constr. Co., Bartlesville, $54,026 and $23,810 respectively e.e. $60,000 and $25,000 respectively, 4.763 mi. F.A.P. 151-D, Sequoyah Co., to James & Hopper, Wilburton, 19,293 e.e. $25,000, 7.837 mi. S.A.P. 497-A and B, Washita Co., to D. Sweeney, 614 West 11th St., Oklahoma City, $30,523 e.e. $35,000, 10.06 mi. S.A.P. 422-A and B, Kay Co., to E. T. Fike, Nebraska Bldg., Tulsa, $38,818 e.e. $50,000, and 5.315 mi. F.A.P. 221-A and B, Pottawatomie Co., to A. W. Critz, Shawnee, $13,958 e.e. $25,000; rock asphalt surfacing 29,034 sq.yd. S.A.P. 50, Pittsburg Co., to Ward-Beekman & Brooks, 1801 East 9th St., Oklahoma City, $84,667 e.e. $100,000; and concrete surfacing 18,107 sq.yd. F.A.P. 164-A and B, Canadian Co., to S. O. Maxey, Durant, $29,736 e.e. $35,000. Grand total $590,228. Noted Nov. 3.

Okla., Ada—Grading and paving 8 blocks 14th St., to Fry Bros., Ada, $22,003. Engrs. est. $25,000. Noted Oct. 6.

Okla., Cherokee—Alfalfa Co., 6 in. concrete paving 8,200 yd. streets in Carmen, also 10,500 yd. various roads, to Rightmire & Baldwin, Ponca City, at $2.31 per yd.

N. M., Clayton—Concrete paving approximately 10,137 yd. various streets, to Northwestern Constr. Co., Clayton, $31,595.

Idaho—Dept. Pub. Wks., Bureau of Highways, Boise, crushed rock surfacing 20,250 cu.yd. Federal Aid Project 40-A-C, Washington Co., to Joslin & McAllister, Wallowa, Ore., $48,066.

Washington—State Hy. Comn., Olympia (**S.R. means State Road**), grading 187,000 cu.yd. S.R. 6, Pend Oreille Co., to Siems & Carlson, Inc., 412 Realty Bldg., Spokane $101,292, and 152,000 cu.yd. S.R. 13, Pacific and Grays Harbor Counties, to Hendricks & Olson, Chehalis $106,418, and 49,000 cu.yd. Ilwaco-North Head Rd., Pacific Co., to Osborne & Christie, Aberdeen $36,679; also graveling shoulders 6,260 cu.yd. S.R. 1, King and Pierce Counties, to B. & B. Building Material Co., Inc., 320 L. C. Smith Bldg., Seattle, $5,071. Grand total $249,460. Noted Oct. 20.

Wash., Bremerton—Grading, guttering, sidewalks, and sewers in Lincoln School Impvt. Dist., to R. Wood, Olympia, $34,300.

Calif., Los Angeles—Grading and National asphaltic concrete paving, etc. 977,038 sq.ft. Bristol and Evanston St. Impvt. Dist., to Curtis Paving Co., 2440 East 26th St., $468,460. Noted Nov. 17.

Calif., San Diego—Bd. Supervs. San Diego Co., to B. Noble, Spreckels Bldg., improving Euclid Ave., etc., 374,854 sq.ft. 6 in. concrete paving at $0.18 per sq.ft., 112 ft. concrete curbing $0.60 per ft., 30,849 cu.yd. embankment $0.07, etc., total $104,169. Engrs. est. $124,000.

Calif., San Diego — Bd. Supervs., San Diego Co., to United Concrete Pipe & Constr. Co., 675 Chamber of Commerce Bldg., Los Angeles, improving Valencia Park, Unit 2, 48,451 cu.yd. excav. at $0.65 per cu.yd., 132,583 sq.ft. 6 in. concrete paving $0.23, 276,801 sq.ft. 5 in. concrete paving $0.205, 22,514 lin.ft. concrete curbing $0.70, etc., total $264,465.

Calif., Santa Monica—Grading and concrete paving, etc. Palisades Beach Rd., etc., to Kneen Paving Co., Dudley Blk., $211,390.

Que., Montreal—Paving Mountain Rd., to Cook Constr. Co. Ltd., 10 Cathcart St., $287,415.

Buildings—Commercial

Proposed Work

Mass., Boston — HOTEL and OFFICE, etc.—Boston & Maine R.R., W. J. Backes, ch. engr., having sketches made by Funk & Wilcox, 26 Pemberton Sq., and Fellheimer & Wagner, consult. archts., 155 East 42nd St., New York City, 14 story and basement, brick, steel and stone hotel, office and distributing terminal, Causeway St. $3,000,000.

Mass., Cambridge (Boston P. O.)—APARTMENT—W. B. Bushway, c/o J. E. Holmes Co., archts., 420 Boylston St., Boston, having revised plans prepared 3 story and basement, brick and stone, plain foundation, Prospect St. $150,000-$160,000.

Mass., Great Barrington—HOSPITAL—Fairview Hospital, G. L. Taylor, chn., having preliminary plans prepared by Crow, Lewis & Wick Co., 200 5th Ave., New York City, 3 story hospital. $480,000.

Mass., Somerville (br. Boston)—Somerville Y.M.C.A., 101 Highland Ave., having sketches made by W. Atherton, 148 State St., Boston, altering and reconstructing (3rd unit) 4 story and basement, brick, Highland Ave. $150,000 or more.

Mass., Springfield—STORE, OFFICE and RESTAURANT—C. O. Oettis, c/o W. E. Dibble, archt., 21 Besse Pl., having revised plans prepared 3 story and basement, 90 x 110 ft., brick, Dwight and Worthington Sts. $150,000.

Conn., Bridgeport — THEATRE and STORE — Strand Amusement Co., M. Jacobson, Main and High Sts., having preliminary plans prepared by J. A. Tuck, 164 Lincoln St., Boston, Mass., 2 story and basement, brick and steel, Fairfield Ave. $150,000 or more.

Conn., Danbury — HOSPITAL and NURSES HOME—Danbury Hospital Assn., C. A. Mallory, pres., having preliminary plans prepared by Sunderland & Watson, 248 Main St., brick and steel hospital addition and nurses home, Locust Ave. $250,000. Noted June 23.

Conn., New Britain—BUSINESS—B. C. Porter Sons, 224 Main St., soon lets contract brick and steel, Main St. $150,000. D. K. Perry, 17 Court St., archt. Noted Sept. 15.

N. Y., Bloomfield — APARTMENT — Cleremont Co., c/o E. V. Warren, archt., Essex Bldg., Newark, having plans prepared 5 story and basement, brick and steel, plain foundation, 165 Franklin St., here. $175,000.

N. Y., Elmira—HOTEL—Wisner Park Corp. of Elmira, c/o J. J. Hassett, State Theatre Bldg., takes bids in March, 8 story and basement, brick and steel, Main and Gray Sts. $1,140,000. G. B. Post, 101 Park Ave., New York City, archt.

N. Y., Hempstead—APARTMENT—W. B. Wills, archt., 852 Monroe St., Brooklyn, takes bids about Nov. 30, 6 story and basement apartment, Cathedral Ave., here, for Corporation being formed. $550,000.

N. Y., New York—HOTEL—S. Friedenberg, 36 West 47th St. takes bids about Dec. 15, 16 story and basement apartment, 136 West 49th St., $450,000. Springsteen & Goldhammer, 40 East 49th St., archts.

N. Y., Utica—Y. M. C. A., E. L. Thornberry, genl. secy., plans Y. M. C. A. building, here. $500,000-$600,000.

N. J., East Orange—APARTMENT—F. J. S. Constr. Co., c/o P. Krueger, archt., 60 Branford Pl., Newark, having plans prepared 4 story and basement, 80 x 130 ft., brick and steel, plain foundation, Elmwood Ave. and Oak St. $150,000.

N. J., East Orange—APARTMENT—M. T. Realty Co., c/o H. F. Clark, archt., 38 Clinton St., Newark, having plans prepared 4 story and basement, brick and steel, plain foundation, Washington and Center Sts. $150,000.

N. J., Hackensack—APARTMENT—E. Banta Associates, 194½ Main St., having sketches made by G. F. Pelham, 570 5th Ave., New York City, 5 story and basement, brick and steel, plain foundation, Summitt Ave. and Clinton Pl. $300,000.

N. J., Irvington (br. Newark)—APARTMENT—Crowley & O'Brien, c/o A. J. Silberstein, archt., 60 Park Pl., Newark, having plans prepared 4 story and basement, brick and steel, plain foundation, Stuyvesant Ave. $150,000.

N. J., Irvington (br. Newark)—APARTMENT—Quincy Realty Co., c/o Schneider, Kleeman & Werther, archts., 1021 Broad St., Newark, having plans prepared 5 story and basement, 75 x 125 ft., brick and steel, plain foundation, 12 Martin Pl. $150,000.

N. J., Irvington (br. Newark)—APARTMENT—Wilstrom Co., 443 Rahway Ave., Elizabeth, having plans prepared by E. V. Warren, Essex Bldg., Newark, 3 story and basement, 100 x 125 ft., brick and steel, plain foundation, 979-983 Clinton St. $150,000.

N. J., Jersey City—HOTEL—Universal Securities Co., H. W. Runyon, pres. 50 Journal Sq., having sketches made 17 story and basement, rein.-con., brick and steel, plain foundation, 2861-67 Hudson Blvd. $5,000,000. Engineer and architects names withheld.

N. J., Montclair—OFFICE—Owner, c/o Holmes & Von Schmid, archts., 1 The Crescent, Montclair, will not construct 5 story and basement, brick and steel, plain foundation, here. $150,000. Project abandoned. Noted Oct. 6.

N. J., Newark — APARTMENT — L. Juliano, 459 Central Ave., Orange, having plans prepared by N. A. Norelli, 786 Broad St., 4 story and basement, brick and steel, plain foundation, Carteret St. and Summer Ave. $250,000.

N. J., Newark—HOTEL—Owner, c/o F. Grad, archt., 1023 Broad St., having sketches made 20 story and basement, brick and steel, plain foundation, Broad and Camp Sts. $1,000,000.

N. J., Newton—HOSPITAL—Bd. Freeholders Sussex Co., Court House, having plans prepared by Sutton, Sutton & Calkins, 402 Broad St., Newark, 3 and 4 story and

Buildings—Commercial (Continued)

basement, brick and steel, plain foundation. $500,000. Noted Feb. 24.

N. J., North Arlington (mail Arlington) —APARTMENT—Stuyvesant Holding Co., c/o D. Scrocco, archt., 60 Park Pl., Newark, having plans prepared 3 story and basement, 80 x 120 ft., brick and steel, plain foundation, Beech St. between Arlington St. and Exton Ave. $150,000.

N. J., Paterson — Y. M. C. A., R. J. Walsh, secy., 141 Ellison St., having plans prepared by F. W. Wentworth, 140 Market St., 3 story and basement, brick and steel, plain foundation, Ward and Prince Sts. $750,000. Architectural Bureau Y. M. C. A., 347 Madison Ave., New York City, associated archts. Noted Sept. 8.

N. J., Teaneck (mail West Englewood)—APARTMENT—Owner, c/o G. Willaredt, archt., 411 23rd St., West New York, having plans prepared 4 story and basement, brick and steel, plain foundation, here. $150,000.

N. J., Trenton — HOTEL — P. Schlicher, Jr., 1510 Riverside Ave., having plans prepared by W. W. Slack & Sons, Trenton Trust Bldg., 8 story, 44 x 68 ft., brick and steel, plain foundation, Stockton and Hanover Sts. $150,000.

N. J., Woodridge (mail Rutherford)—APARTMENT and STORE—C. W. Golling, Rochelle Park, plans 4 story and basement, brick and steel, plain foundation, Windsor Rd. and Hackensack St., here. $150,000. Private plans.

Pa., Johnstown — HOSPITAL — Homeopathic Hospital having plans prepared by Kast & Kelker, 222 Market St., Harrisburg, 5 story and basement, 66 x 80 ft., brick and steel addition, Main St. $150,000.

Pa., Pittsburgh — THEATRE and APARTMENT — L. Hendel, 1900 Center Ave., having plans prepared by C. J. and C. Reeger, Fulton Bldg., 3 story and basement, brick and steel, Center Ave. $150,000.

Md., Baltimore—HOTEL—Title Guarantee & Trust Co., St. Paul and Lexington Sts., having plans prepared by F. A. Fletcher, 13 West Franklin St., 12 story and basement, 50 x 123 ft., brick and stone, St. Paul and Eager Sts.

Ga., Atlanta—CITY HALL—City Com. of City Council having plans prepared by G. L. Preacher, Wynne-Claughton Bldg., city hall. $1,000,000. Noted May 6, 1926.

N. C., Winston-Salem—OFFICE—R. J. Reynolds Tobacco Co. plans office building on 120 x 200 ft. site, 4th, Church and Main Sts.

O., Ashland—COURT HOUSE—Ashland Co. voted $365,000 bonds, court house. Noted Aug. 25.

O., Cleveland — APARTMENT — J. De Kaiser, 1225 Guarantee Title Bldg., having plans prepared by M. Weis, 1836 Euclid Ave., 3 story and basement, 72 x 97 ft., brick, 1201 East Blvd. $150,000.

O., Columbus — LODGE — Grand United Order Odd Fellows, Garfield and Long Sts., having plans prepared by G. W. Abernathy, 83 South High St., 3 story and basement, 111 x 150 ft., brick and concrete, East Long St. $200,000.

O., Columbus — LODGE — Columbus Order Aerie 287 Eagles, 771 North High St. Bldg., R. J. Bartlett, chn. building com., having sketches made, 4 story and basement, 90 x 180 ft., brick, steel and concrete lodge. $300,000. Engineer and architect not selected.

O., Dayton—THEATRE and OFFICE—Syndicate, c/o W. W. Ahlschlager, Inc., archt., takes bids about Jan. 15, 6 story and basement, brick and rein.-con., 3,500 seating capacity. $2,000,000.

Ind., Indianapolis—APARTMENT—Illini Realty Co., E. P. Warren, secy., 719 Lemcke Bldg., had plans prepared 2 story and basement, 130 x 150 ft., rein.-con. and brick, 2865-67-69-71 North Illinois St. $160,000. Private plans.

Mich., Battle Creek—SERVICE—M. J. Morehouse, archt., 343 South Dearborn St., Chicago, Ill., takes bids about Nov. 26, 4 story and basement, 88 x 128 ft., rein.-con. and brick, incl. dining room, kitchen, and doctors offices, here, for Battle Creek Sanitarium. $300,000.

Ill., Chicago — APARTMENT—Hammar & Girton, 18 West Kinzie St., having plans prepared 13 story and basement, 125 x 140 ft., rein.-con., brick and stone, 1215 Granville Ave. $750,000. Private plans.

Ill., Chicago — APARTMENT —Schoenlank & Kirschner, 4753 Bway., soon take bids 7 story and basement, 75 x 92 ft., rein.-con., brick and stone, Greenview and Morse Aves. $400,000. A. N. Quitsow, 228 North La Salle St., archt.

Ill., Chicago—CLUB—Agricultural Club of America, c/o W. H. Pruyn, archt., 122 South Michigan Ave., having sketches made 21 story and basement, 250 x 900 ft. club building, Lake Shore Dr. River, near Municipal Pier. $35,000,000.

Ill., Chicago — HOTEL and STORE — A. W. Dickson, 155 North Clark St., having plans prepared by C. W. Lampe & Co., 155 North Clark St., 4 story and basement, rein.-con., brick and stone, on 80 x 125 ft. site, Cicero Ave. near Irving Park Blvd. $175,000.

Ill., Oak Park—HOTEL—L. C. Schlegel, c/o C. W. Palme & Co., archts., 155 North Clark St., having plans prepared 5 story and basement, rein.-con., brick and stone, on 50 x 184 ft. site, 112 South Park Ave. $175,000.

Ia., Iowa City—AMERICAN LEGION—Amer. Legion Post, c/o C. F. Ward, chn., takes bids in early spring, 3 story, rein.-con., brick and stone, incl. Chamber Commerce rooms, legion quarters, drill rooms, dance hall etc. $170,000. C. C. Woodburn, 806 Valley Natl. Bank Bldg., Des Moines, archt. Noted June 2.

Ia., Iowa City—HOTEL—W. J. Harter, et al, having preliminary plans prepared 7 story, 150 x 160 ft., rein.-con., brick and terra cotta, Dubuque and Burlington Sts., here. $400,000.

Minn., Minneapolis — HOTEL-CLUB — Nordic Hotel Assn., G. Eide, secy., 1614 East 34th St., having plans prepared by Sund & Dunham, 512 Essex Bldg., 18 story and basement, rein.-con., brick and stone, Marquette Ave. and 10th St. $2,500,000.

Minn., Robbinsdale—CITY HALL—City, c/o C. F. Wilson, mgr., plans 2 or 3 story and basement, rein.-con., brick and stone city hall. $150,000. Engineer and architect not announced.

Mo., Poplar Bluff—COURT HOUSE—Butler Co. voted $265,000 bonds, 3 story and basement, rein.-con., brick and stone, North Main St. N. S. Spencer & Sons, 25 East Jackson Blvd., Chicago, Ill., archts. Noted Sept. 15.

Mo., St. Louis — APARTMENT — J. F. Mathews Constr. Co., 4511 Delmar Blvd., having preliminary plans prepared by R. A. Nonselman, 114 North 7th St., 3 story and basement, rein.-con., brick and stone, 11th and Ferry Sts. $275,000.

Mo., St. Louis—APARTMENT—S. Weinberg, 816 Chestnut St., having preliminary plans prepared by M. L. Latner, 816 Chestnut St., 3 story and basement, rein.-con. and brick, 325 North Taylor Ave. $150,000.

Mo., St. Louis—BANK and OFFICE—Lindell Trust Co., C. H. Peters, pres., 2745 North Grand Blvd., having plans prepared by Wedemeyer & Nelson, Wainwright Bldg., and takes bids about Dec. 11, 4, 5 or 6 story and basement, 75 x 122 ft., rein.-con., brick, stone and terra cotta, Grand and St. Louis Aves.

Mo., St. Louis—DEPOT—Wabash Ry. Co., R. H. Howard, ch. engr., Ry. Exch. Bldg., having preliminary plans prepared 2 story and basement, rein.-con., brick and terra cotta, Delmar Blvd .and Wabash Ry. tracks. $300,000.

Tex., Eastland — COURTHOUSE—Eastland Co., c/o G. S. Prichard, judge, takes bids about Dec. 1, 5 story and basement, brick, stone, steel and rein.-con. courthouse. $300,000. Lang & Witchell, 300 Amer. Exch. Bldg., Dallas, archts. Noted Oct. 6.

Okla., Tulsa—HOTEL—A. C. Johnson, 309 Natl. Bank of Commerce, having plans prepared 11 story, 100 x 140 ft. hotel, Main and 7th Sts. $700,000. Engineer and architect not selected.

Okla., Tulsa—OFFICE—J. E. Crosbie, Central Natl. Bank Bldg., having plans prepared approximately 12 story, 100 x 140 ft. office building Main and 2nd Sts. $700,000. Engineer and architect not selected.

Ariz., Phoenix — CLUB — Phoenix Club having plans prepared by Hunt & Burns, 701 Homer Laughlin Bldg., Los Angeles, Calif., 5 story and basement, 68 x 140 ft., concrete and steel, incl. 24 x 60 ft. swimming pool, West Van Buren St. and Indiana Ave. $250,000.

Wash., Seattle — APARTMENT — J. S. Hudson (owner and architect), Empire Bldg., preparing plans 8 story and basement, forty-five 2 and 3 room suite, concrete, brick and steel, Terry and Spring Sts. $300,000.

Wash., Seattle—CLUB HOUSE—Rainier Club, 4th and Marion Sts., plans addition. $500,000.

Ore., Portland—BUSINESS—DeYoung & Roland, archts. and engrs., Portland, take bids about Jan. 1, 2 and 3 story and basement, 199 x 200 x 217 ft., concrete, Powell Valley, Foster Rd. and 50th St., for J. A. Charlesworth, Portland. $500,000.

Ore., Portland—FRATERNAL—Sutton & Whitney, archts., Lewis Bldg., take bids about Jan. 1, 5 story and basement, 100 x 100 ft., Morrison and 14th Sts., for Neighbors of Woodcraft, Portland. $300,000.

Ore., Roseburg — COURT HOUSE — Comrs. Douglas Co. plans court house. $280,000 appropriated. Engineer and architect not selected.

Calif., Antioch—THEATRE and OFFICE —F. Stamm & H. Beede plan theatre and office building, 2nd and G Sts. Engineer and architect not selected. $150,000

Calif., El Centro — THEATRE and STORE — J. P. Perrine, archt., Lincoln Bldg., Los Angeles, soon takes bids on revised plans 120 x 140 ft., rein.-con. theatre 1,500 seating capacity, and store building, 7th and State Sts., for R. Croft, c/o architect. Noted Sept. 22.

Calif., Long Beach — APARTMENT — J H. Roberts, archt., Marine Bank Bldg., preparing preliminary plans 9 story and basement apartment. Owners name withheld.

Calif., Los Angeles — HOME — O. M Hickey and associates, Pacific Natl. Bank Bldg., plan home for aged, near here. $500,000.

Calif., Los Angeles — HOSPITAL — Los Angeles Co. had plans prepared by E. Bergstrom, Citizens Natl. Bank Bldg., M. Hun, Hibernian Bldg., and P. Davis, 3215 West 6th St., (unit 1), 60 x 493 ft. and (unit 2) 60 x 230 ft., both 1 story, rein.-con. additions, incl. 1 and part 2 story 39 x 85 ft. morgue and power house, at Olive View Sanitarium. $260,000. Noted Jan. 27.

Calif., Los Angeles—OFFICE—W. S Orme, archt., 701 Wright & Callender Bldg., making sketches 8 story and basement, 64 x 146 ft., rein.-con., Sunset Blvd. west of Vermont Ave. $450,000. Owners name withheld.

Calif., Madera—HOTEL—Interests represented by W. S. Hill, vice pres., 1st Natl. Bank, plans approximately 4 story, brick and concrete, Yosemite Ave. and C St. $150,000 or more.

Calif., Oakland — OFFICE — Realty Syndicate Building Co. having preliminary plans prepared by H. Murdock, Syndicate Bldg., 10 story and basement, annex, 15th and Franklin Sts. To exceed $250,000.

Calif., Oakland—STORE—H. C. Capwell Co., 14th and Clay Sts., Oakland, having plans prepared by Ashley & Evers, 525 Market St., San Francisco, and Starrett & Van Vleck, 393 7th Ave., New York City, N. Y., 6 story (ultimately 10 story), and basement, 20th St. and Bway. $3,000,000.

Calif., San Diego — HOSPITAL — I. E. Loveless, archt., Chester Williams Bldg., soon takes bids rein.-con. addition, 100 bed capacity, for Mercy Hospital, Hillcrest St. $300,000.

Calif., San Francisco—APARTMENT—W. Van Herrick, 1360 O'Farrell St., having plans prepared by J. C. Hladik, Monadnock Bldg., 6 story and basement, concrete, Waller and Laguna Sts. $175,000.

Calif., San Francisco—BANK and OFFICE—Canadian Bank of Commerce, 450 California St., having preliminary plans prepared by L. W. Hobart, Crocker Bldg., 6 story and basement, Pine and Liedesdorff Sts. $300,000.

Calif., South Pasadena (Ind. br. Pasadena)—MASONIC TEMPLE—South Pasadena Masonic Temple Assn., purchased 90 x 215 ft. site and plans temple, Fremont Ave. and Oak Sts. To exceed $150,000. Engineer and architect not selected.

Ont., Ottawa—APARTMENT—S. Miller, 190 Bank St., having plans prepared by C. Burgess, 185 Sparks St., 3 story, 90 x 120 ft., rein.-con., brick and steel, plain foundation, Elgin and McLeod Sts. $175,000.

Ont., Sarnia — WAREHOUSE — Sarnia Brewing & Distilling Co., Front St., plans rein.-con., brick and steel, plain foundation. $200,000. Engineer and architect not selected.

Ont., Toronto—AUTO SHOW ROOM—Ford Motor Co. of Canada, Danforth Ave., having plans prepared by George, Moorhouse & King, 1123 Bay St., 3 story and basement, 60 x 120 ft., rein.-con., brick and steel, plain foundation, Bay and Charles Sts. $190,000.

Que., Montreal—OFFICE and STORE—J. C. Asch, 581 Grosvenor Ave., Westmont, plans 10 story, 170 x 170 ft., Guy and St. Catherine Sts. $450,000.

Que., Montreal — OFFICE — Bell Telephone Co., 118 Notre Dame St. W., having plans prepared by Barot & Blackader, Canada Cement Bldg., 20 story, 129 x 149 ft., limestone, Beaver Hall Hill. Noted July 14.

Bids Desired

Mass., Boston — STORE and OFFICE — —Nov. 29, by H. B. Alden, archt., 126 State St., 6 story and basement, 30 x 100 ft., brick, steel and stone, plain foundation, 143 Newbury St., for E. S. Welck, 73 Tremont St. $150,000.

Mass., Brookline (br. Boston)—APARTMENT—See "Contracts Awarded."

N. Y., Colonie (mail Watervliet)—ALMSHOUSE, etc.— Dec. 15, by Clerk Bd. Supervs., Albany Co., Court House, Albany,

Buildings—Commercial (Continued)

Ann Lee Home, Shaker Farm; also remodeling and completing Community House at Ann Lee Home, here. H. Rogers, 467 Bway., archt.; adv. E. N.-R. Nov. 24. Noted July 14 under "Albany."

N. Y., Helmuth—FARM DORMITORY—Dec. 14, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, farm dormitory, at Gowanda State Homeopathic Hospital, here. S. W. Jones, Capitol, Albany, state archt.; adv. E. N.-R. Nov. 24. Noted Oct. 27.

N. Y., New York — APARTMENT — Solomon & Kahn, 475 5th Ave., taking subbids 15 story and basement, 65 x 102 ft., brick and steel, plain foundation, 3rd Ave. and 79th St. $750,000. Gronenberg & Leuchtag, 1385 Bway., archts. Noted Aug. 4.

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. J., East Orange—APARTMENT—See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awarded."

N. J., Orange — APARTMENT — See "Contracts Awarded."

Pa., Phila.—APARTMENT—Hodgens & Hill, archts., 130 South 15th St., taking bids 4 story and basement, 98 x 150 ft., brick and steel, plain foundation, Church Lane and Ogontz St., for M. I. Isen, Penn Bldg

Ga., Canton—COURT HOUSE and JAIL—Dec. 14, at Bank of Canton, part 2 and 4 story and basement, 82 x 93 ft., brick and concrete, North Main and North Church Sts., for Cherokee Co. $150,000. A. Ten Eyck Brown, 717-20 Forsyth Bldg., archt. Noted Oct. 20.

O., Cincinnati — Dec. 5, by Rendigs, Panzer & Martin, archts., Southern Ohio Bank, 7 story and basement, brick and rein.-con., plain foundation, Walnut St., for Y. W. C. A., 20 East 8th St. $700,000.

Ind., Hammond — APARTMENT — Morraine Corp., c/o Newhouse & Bernham, archts., 5257 Cottage Grove St., Chicago, Ill., taking bids 4 story, 120 x 125 ft., brick, steel and stone, Morraine Ave. and Hohman St. $160,000.

Ind., Kokomo — COURT HOUSE and WAR MEMORIAL—Dec. 10, by O. Butcher, aud. Howard Co., 3 story and basement, 100 x 150 ft., steel, Public Sq. $500,000. W. Scholer, Lafayette, archt. Noted Oct. 13.

Ill., Chicago — HOSPITAL — Dec. 3, by Holabird & Roche, archts., 104 North Michigan Ave., 13 story and basement, 81 x 224 ft., rein.-con. and cut stone, East Superior St. and Fairbanks Ave., for Passavant Memorial Hospital, 26 West Erie St. $2,000,000. Noted Jan. 7.

Neb., Wilbur — COURT HOUSE, etc. — Dec. 5, by J. M. Korbel, clk. Saline Co., 3 story and basement, 70 x 100 ft. court house, also 2 story and basement, 36 x 77 ft. jail and sheriffs residence, Court High St. from 2nd to 3rd Sts. $250,000. M. L. Evans, Brandeis Bldg., Hastings, archt. Noted Sept. 22.

Calif., Los Angeles—THEATRE—West Coast Theatres, Inc., Film Exch. Bldg., taking bids on revised plans rein.-con., Whittier Blvd. $150,000. Former bids rejected. Balch Bros., Film Exch. Bldg., archt.

Calif., Los Angeles—THEATRE, STORE and OFFICE—Balch Bros., Film Exch. Bldg., taking bids on revised plans 80 x 150 ft., rein.-con. theatre, 1,500 seating capacity, Whittier Blvd., for West Coast Theatres, Inc.

Contracts Awarded

Mass., Boston — STATION and COLOSSEUM — Boston & Maine R.R., W. J. Backes ch. engr., railroad station and colosseum, seating approximately 18,500, on Causeway St., to Dwight P. Robinson & Co., 125 East 46th St., New York City. Archts. est. $4,000,000. Funk & Wilcox, 26 Pemberton Sq. Archts. Fellheimer & Wagner, 155 East 42nd St., consult. archts.

Mass., Brookline (br. Boston)—APARTMENT—Owner, c/o Eisenberg & Feer, archts., 46 Cornhill, Boston, will build 3 story and basement, 120 x 180 ft., brick and stone, plain foundation, Washington St. $250,000. Work will be done by separate contracts. Noted Nov. 17.

Mass., Dorchester (Sta. Boston) — WAREHOUSE—Great Atlantic & Pacific Tea Co., A. Thompson, mgr., Fitchburg St., Somerville, 5 story, rein.-con., brick and steel, plain foundation, Dewar St., here, to Barrows & Co., 40 Central St., Boston. Archts. est. to exceed $150,000.

Conn., Stamford—APARTMENT— Rippowam Village Corp., Smith Bldg., Greenwich, 4 story, brick and steel, South St. and Richmond Hill Ave., to Vuono Constr. Co., Main St. Archts. est. $150,000.

N. Y., Brooklyn—APARTMENT—Corporation, 6 story and basement, 124 x 171 ft. apartment, Ocean Parkway and Sherman St., to Drapkin & Goldberg Constr. Co., 44 Court St. Archts. est. $1,000,000.

N. Y., New York—APARTMENT—P. J. Dwyer, 2454 Grand Concourse, will build apartment, 178th St. and Bway. $200,000. Work will be done by separate contracts. C. Kreymborg, 2534 Marion Ave., archt.

N. Y., New York—APARTMENT—Gussie Building Corp., 1726 Davidson Ave., will build 6 story and basement, 87 x 225 ft., brick, Davidson Ave. and 174th St. $450,000. Work will be done by separate contracts. L. Stillman, 1993 Jerome Ave., archt.

N. Y., New York—APARTMENT—L. E. Kleban & Sons, Inc., 1440 Bway., will build 6 story and basement, 89 x 234 ft. apartment, 166th St. between Grand Concourse and Walton Ave. $800,000. .Work will be done by separate contracts. A. J. H. Leuchtag, 1385 Bway., archt.

N. Y., New York—APARTMENT—One Sutton Sq. Corp., c/o R. Candela, archt., 578 Madison Ave., will build 14 story apartment on 57 x 75 ft. site, 25-27 Sutton Pl. $400,000. Work will be done by separate contracts.

N. Y., New York—HOSPITAL—Neurological Institute of New York, 149 East 67th St., 14 story and basement, 103 x 189 ft. hospital, 193-201 Fort Washington Ave., to M. Eidlitz & Sons, 41 East 42nd St. $1,250,000.

N. Y., New York — HOSPITAL and NURSES HOME — French Hospital, 450 West 34th St., general contract 15 story, 80 x 160 ft., hospital, and 8 story, 70 x 80 ft. nurses home, brick and steel, wood and concrete pile foundation, 8th Ave. between 29th and 30th Sts., to G. A. Fuller Co., 949 Bway. Archts. total est. $2,000,000. Sept. 29.

N. Y., New York — LOFT — Printarts Building, Inc., c/o H. I. Oser, archt., 1440 Bway., general contract 18 story, brick and steel, 288 East 45th St., to Magoba Constr. Co., 103 Park Ave. Archts. est. $2,000,000.

N. Y., White Plains—Y. M. C. A., F. G. Smith, genl. secy., general contract Y. M. C. A. building, to W. P. Berbusse, Portchester. Archts. est. $355,000.

N. J., East Orange—APARTMENT—A. Lieb, 34 Goodwin Ave., Newark, will build 4 story and basement, 85 x 140 ft., brick and steel, plain foundation, 170 South Clinton St. $155,000. Work will be done by separate contracts. Noted Nov. 17.

N. J., East Orange — APARTMENT — Mount Vernon Constr. Co., M. Rosenbaum, pres., 588 Bergen St., Newark, will build 4 story and basement, brick and steel, plain foundation, 499 Williams St. $175,000. Work will be done by separate contracts. R. Botteli, 45 Branford Pl., Newark, archt.

N. J., Hoboken — THEATRE — Stanley-Fabian Co., 17 Academy St., steel for 2 story and basement, 115 x 213 ft., brick and steel, Washington and Newark Sts., to Belmont Iron Wks., 44 Whitehall St., New York City. Archts. total est. $1,000,000. Noted June 23.

N. J., Newark — APARTMENT — A. Potash, c/o S. Cohen, archt., 130 Bradford Pl., will build 5 story and basement, brick and steel, plain foundation, 48-50 Milford Ave. $160,000. Work will be done by separate contracts. Noted Nov. 17.

N. J., Newark — HOSPITAL — Sutton, Sutton & Calkins, archts., 402 Broad St., general contract 6 story and basement, 70 x 130 ft., and 88 x 104 ft., brick and steel, plain foundation, 9th Ave. between 9th and 10th Sts., to Carlson Co., 89 Walnut St., Montclair, for Presbyterian Hospital, 25 South 9th St. Archts. est. $500,000. Noted Oct. 27.

N. J., Orange—APARTMENT—Bilt-Wel Co., 135 Hill St., will build 4 story and basement, 95 x 110 ft., brick and steel, plain foundation, Scotland Rd. and Randolph St. $150,000. Work will be done by separate contracts. M. Villanueva, 7 Sterling Dr., archt.

O., Cleveland — APARTMENT — H. Hradilek, Park Bldg., 3 story and basement, brick, steel and concrete, Edgewater Dr., to E. J. Wintering, 3492 West 127th St. Archts. est. $350,000. Noted Nov. 3.

O., Toledo—THEATRE and COMMERCIAL—Famous Players Lasky Corp., Paramount Bldg., New York City, 4 story, brick, steel and concrete, 3,000 seating capacity, here, to Lundoff-Bicknell Co., B. F. Keith Bldg., Cleveland. Archts. est. $1,500,000.

Ill., Chicago—APARTMENT and STORE—Leichenko & Esser, archts., 38 South Dearborn St., masonry contract 3 story, 102 x 176 ft., rein.-con., brick and stone, Kedzie and North Aves., to Lind Constr. Co., 6400 South State St.; heatnig, to Krane Eng. Co., 1428 Orleans St.; plumbing, to Fettes-Love-Sieven, Inc., 1426 Irving Park Blvd.; and terra cotta, to Advance Terra Cotta Co., 203 South Dearborn St. Archts. est. $250,000. Noted Nov. 10.

Ill., Chicago — HOTEL — L. Bromberg (owner and builder), 4151 North Troy St., will build 4 story, 50 x 183½ ft., brick and concrete, 1624-26 West Jackson Blvd. $200,000. L. I. Simon, 179 West Washington St., archt.

Ill., Chicago—STORE and OFFICE—Erskine-Danforth Corp., 315 North Michigan Ave., general contract 5 story, 75 x 100 ft., brick and stone, Ontario St. and Michigan Ave., to M. Raven, 326 West Madison St., Archts. est. $300,000. Noted Aug. 18.

Ill., Chicago—Perkins, Chatten & Hammond, archts., 160 North La Salle St., general contract 5 story and basement, 125 x 215 ft., incl. one 50 x 70 ft. and one 33 x 60 ft. gymnasiums, 25 x 60 ft. natatorium, etc., rein.-con., brick and stone, 3333-11 North Marshfield Ave., to W. C. Weiboldt Co., 1534 West Van Buren St., for Y. M. C. A., 19 South La Salle St. Archts. est. $750,000. Noted Aug. 11.

Mo., St. Louis — APARTMENTS — H. Spechter, Arcade Bldg., 3 story and basement, 64 x 85 ft., and 85 x 163 ft., rein.-con., brick and stone, 6152, 6158, 6160, 6168 and 6170 Waterman Ave., to J. Rubin Constr. Co., 904 Chestnut St. Archts. est. $185,000.

Calif., Los Angeles—APARTMENT—W. C. West, 4 story and basement, 90 x 160 ft., brick, Franklin Ave., to E. Flodine, 1449 West 56th St., $175,000.

Calif., Los Angeles—APARTMENT—W. C. West, 4 story, 90 x 160 ft., Franklin Ave., to E. Flodine, 1449 West 56th St., $205,000. Noted Sept. 29.

Calif., Los Angeles—HOTEL and STORE—D. Gordon, brick, 9th and Bonnie Brea Sts., to M. M. Friedman, Detwiler Bldg. Archts. est. $150,000.

Calif., Los Angeles—STUDIO—Mack Sennett Co., Hollywood, 2 story, 100 x 125 ft. administration building, and four 100 x 200 ft. stages, all rein.-con. and steel, incl. power plant, near Ventura Blvd. and Laurel Canyon Rd., here, to Austin Co. of California, 777 East Washington St., $275,000. Noted Sept. 22.

Calif., North Sacramento (mail Sacramento)—THEATRE—P. Prom, 928 27th St., Sacramento, rein.-con. theatre, 1,000 seating capacity, here, to W. C. Keating, forum Bldg., Sacramento, $150,000. Blumenfeld Theatre Circuit, 3910 Fulton St., San Francisco, lessee.

Calif., Piedmont—MAUSOLEUM—Weeks & Day, archts., 405 Montgomery St., San Francisco, concrete mausoleum, to C. Heyer, Mills Bldg., San Francisco, for Mt. View Cemetery. $200,000. Noted Oct. 27.

Calif., Ventura—THEATRE and OFFICE—Amer. Amusement Co., Film Exch. Bldg., Los Angeles, 2 story, rein.-con., 1,750 seating capacity, Main and Chestnut Sts., to Los Angeles Contg. Co., 4816 West Pico St., Los Angeles, approximately $250,000. Noted Sept. 22.

B. C., Vancouver — HOSPITALS — City Council, City Hall, 6 story and basement, 45 x 234 ft., rein.-con. and terra cotta maternity hospital, plain foundation, 12th and Willow Sts., to Hodgson, King & Marble 508 London Bldg., $257,950; also 6 story and basement, 45 x 274 ft., rein.-con. and terra cotta hospital, plain foundation, 12th and Laurel Sts., to Moncrieff & Vistarnet, 501 Shelly Bldg., $315,000, for Vancouver General Hospital, 10th and Heather Sts. Noted Oct. 6.

Que., Montreal—OFFICE—Railway Exchange Building Ltd., 232 St. James St., 11 story, 99 x 170 ft. office building, Craig St. W., to Quinlan, Robertson & Janin, 702 Sherbrooke St. W., $670,000. Noted Mar. 17.

Buildings—Industrial

Proposed Work

Mass., Attleboro—FACTORY—L. G. Balfour & Co., 25 County St., having sketches made by F. B. Perry, 44 Franklin St., Providence, R. I., 2 brick additions. To exceed $40,000. Noted Nov. 3.

Mass., Boston — MANUFACTURING — Meisel Press Mfg. Co., 944 Dorchester Ave., postponed until spring, constructing 1 and 2 story, 100 x 225 ft., brick, plain foundation, Dorchester Ave. To exceed $40,000. H. S. Cleverdon, 46 Cornhill, Boston, archt. Noted Aug. 11.

Mass., Wareham—FACTORY, GARAGE and STOREHOUSE—E. C. St. Jajues, High St., Cranberry Corners, plans 1 and 2 story, brick and timber, plain foundation, Main St. $40,000. Engineer and architect not selected.

Buildings—Industrial (Continued)

Mass., Webster—REPAIR and SERVICE GARAGE—H. Cohen, 63 Main St., plans 1 story, brick and steel, 57 Main St. $50,000. Engineer and architect not selected.

N. J., Teterboro — AIRCRAFT FACTORY—Gates Day Aircraft Corp., M. J. Finkelstein, 17 Academy St., Newark, plans aircraft factory, here. $100,000. Private plans.

N. J., West New York—MACHINE SHOP—Owner c/o F. J. Ricker, archt., 685 Hudson Ave. having plans prepared 2 story and basement, 25 x 80 ft., brick and steel, plain foundation, 13th and Jackson Sts. $40,000.

O., Akron—FACTORY—Palmen Mfg. Co. having plans prepared by Harpster & Billman, Central Savings & Trust Bldg., 1 story, brick and steel, Darrow St. $40,000.

O., Cleveland—FOUNDRY—Bd. Educ., F. G. Hogen, dir., having plans prepared by G. M. Hopkinson, Auditorium Garage Bldg., Eagle Trade School, 1 story, brick, steel and concrete, Eagle Ave. $40,000.

Mich., Grand Rapids—BAKERY—Kroger Grocery & Baking Co., 817 Main St., Cincinnati, O., having plans prepared 1 and 3 story and basement, 200 x 240 ft., rein.-con. and brick, plain foundation. $50,000. Private plans.

Ill., Chicago — COLD STORAGE — Produce Terminal Cold Storage Co., c/o Henschin & McLaren, archts., 1637 Prairie Ave., having plans prepared 11 story and basement, 108 x 280 ft., rein.-con., 15th Pl. and Throop St. $2,000,000.

Wis., Milwaukee — PIANO and RADIO FACTORY — Waltham Piano Mfg. Co., 1623 Island Ave., plans timber, 1st St. and Island Ave. $100,000. Engineer and architect not selected.

Ia., Marshalltown — PLANT — Fisher Governor Co. having plans prepared by H. E. Reimer, Marshalltown, 1 story and basement, 76 x 120 ft., brick and steel addition, plain foundation.

Neb., Hastings—FACTORY—Jaden Mfg. Co., c/o A. Berck, supt., having preliminary plans prepared by K. H. Gedney & Co., 2nd and Kansas Sts., enlarging factory, 40,000 sq.ft. floor space, West 2nd St. $60,000.

Neb., McCook—AIRPLANE FACTORY—Morton Bros., Lexington, plans airplane factory, here. $50,000. Engineer and architect not selected.

Mo., St. Louis — PLUMBING SUPPLY FACTORY — N. O. Nelson Mfg. Co., 10th and Chestnut Sts., having preliminary plans prepared rein.-con. and brick, Boyle St. $300,000.

Tex., Corpus Christi — BOTTLING PLANT — Southern Bottling Co., c/o J. Ferrell, mgr., soon takes bids 1 story, 50 x 140 ft., rein.-con., brick and tile plant. $70,000. Private plans.

Tex., Del Rio—POWER PLANT, etc.—Central Power & Light Co., c/o E. B. Neiswanger, Frost Bldg., San Antonio, soon lets contract power plant, 1 large and several small dams, on Devil River, 18 mi. from here. $500,000. Private plans.

Tex., Marshall—FACTORY—Dairy Corp., c/o M. Turnet, chn. com., having preliminary plans prepared, etc. factory manufacturing butter, buttermilk, powder and skim milk powder, 80,000 lb. milk daily capacity. $125,000, incl. equipment and machinery. F. H. Douthitt Eng. Co., 139 North Clark St., Chicago, Ill., engrs.

Tex., San Angelo—ICE PLANT—San Angelo Ice Co., c/o M. D. Kennemer, San Angelo, having plans prepared ice plant addition, probably 40 ton capacity. $75,000. Private plans.

Tex., San Antonio — ICE PLANT — City Ice Co., c/o C. S. Dowley, mgr., 142 Camp St., making plans ice plant, 50 ton capacity, rein.-con., brick and steel Pleasanton Rd. and Toudouze St. $75,000. Private plans.

Tex., San Saba—PECAN SHELLING FACTORY—B. McConnell having plans prepared by B. W. Spillman, c/o Alamo Natl. Bank Bldg., San Antonio, concrete, cast stone, hollow tile and brick factory. $40,000 incl complete equipment and machinery.

Okla., Walters—ICE PLANT—L. E. Selman had preliminary plans prepared new 20 ton capacity raw water ice plant. $40,000. Private plans.

Wash., Olympia—POWER PLANT—See "Unclassified."

Ore., Portland — CHAIR FACTORY — Webster Chair Co., F. E. Thomas, mgr., 15th and Thurman Sts., plans chair factory, 27th and Nicols Sts. $50,000 appropriated Engineer and architect not selected.

Calif., Los Angeles—FACTORY—Pittsburg Plate Glass Co., Frick Bldg., Pittsburgh, Pa., plans factory, here. To exceed $40,000.

Calif., Long Beach—FACTORY—General Motors Corp., 4584 Mayberry St., Detroit, Mich., plans factory in Long Beach Harbor Dist., here. To exceed $150,000.

Calif., Redlands—STORAGE PLANT—Mountain Ice Water Co., San Bernardino, having plans prepared by H. E. Jones, 404 Katz Bldg., San Bernardino, 2 story, brick and concrete, Tennessee and Colton Aves. $50,000.

Bids Desired

Mass., North Darmouth—PLANT—See "Contracts Awarded."

Mass., Roxbury (Sta. Boston) — FACTORY — Chickering & Sons, 791 Tremont St., Boston, taking bids altering and reconstructing 1 story, rein.-con. and steel, plain foundation, 18 Station St., here. $40,000 or more. Monks & Johnson, 99 Chauncy St., Boston, archts.

Mass., South Lawrence (mail Lawrence) —ARTIFICIAL ICE PLANT—B. L. McDonald Co., 398 Essex St., taking bids 1 story, 60 x 190 ft., brick and steel, plain foundation, Andover St. $40,000. Funk & Wilcox, 26 Pemberton Sq., Boston, archts.

Conn., Norwalk—FACTORY—Nov. 29, by Ballinger Co., archts., 100 East 42nd St., New York City, and 2 story and basement, 91 x 153 ft., brick and steel addition, plain foundation, Main St., here, for E. H. Hotchkiss Co., 6-12 Hoyt St. Noted Nov. 17.

N. J., Paterson—BOILER HOUSE—Lee & Hewitt, archts., 152 Market St., taking bids general contract 1 story and basement, 50 x 70 ft., brick and steel, plain foundation, Railroad and 4th Ave., for H. H. Brown & Sons Co., 15 4th Ave. $40,000.

Ind., Cambridge City—MACHINE SHOP—Western Oil & Refining Co., 310 North Meridian St., Indianapolis, taking bids brick and steel machine shops, tire and battery filling station, here, $40,000. Bishop, Knowlton & Carson, 312 North Meridian St., Indianapolis, archts.

Contracts Awarded

Mass., Everett (br. Boston) — SHOP — Melanson Bros., Inc., 67 Chelsea St., 1 story and basement, 75 x 115 ft., rein.-con. and brick, plain foundation, Chelsea St., to Bond Bros., 79 Ferry St. Archts. est. $40,000. Noted Nov. 3.

Mass., North Darmouth — ICE HOUSE and REFRIGERATING PLANT — A. Lagasse, 2147 Pleasant St., Fall River, will rebuild ice house and refrigerating plant, Reed Rd., here, by day labor. $50,000. Private plans.

Mass., Quincy (Ind. br. Boston)—ICE PLANT—Granite City Ice Co., Inc., 550 Adams St., 1 story, 8,000 sq.ft. floor space, brick, steel and stone, plain foundation, to W. A. Sanborn, 79 Milk St., Boston.

Mass., Somerville (br. Boston) — MACHINE SHOP and FOUNDRY — F. G. Volpe, Hager St., Arlington, 1 story, 50 x 100 ft., rein.-con., plain foundation, 14 Kent St., to I. Scolari, 3 Chandler St., Medford.

Mass., Somerville (br. Boston)—FACTORY—Birch Bros., 32 Kent St., altering and reconstructing 2 story, timber Kent St., to A. Allcock, Fallon Rd., Lexington.

Mass., Worcester—WAREHOUSE—G. E. Strehan, engr., 112 West 42nd St., New York City, 2 story and basement, 132 x 336 ft., rein.-con. and brick, Hammond and Tainter Sts., here, to Aberthaw Co., 80 Federal St., Boston, for Melville Shoe Corp., 191 Hudson St., New York City. Noted Nov. 17.

Conn., Bristol—PLANT—New Departure Mfg. Co., 269 North Main St., 2 story and basement, 52 x 90 ft., rein.-con., brick and steel, addition to factory 17, Race St., to J. D. Devine, Woodland St. Archts. est. $40,000.

N. J., Kearny (Sta. Arlington)—PLANT—Western Electric Co., Inc., Lincoln Highway, steel contract for 1 story, 100 x 350 ft., brick and steel concrete pile foundation, Lincoln Highway, to McClintic Marshall, 50 Church St., New York City. Archts. total est. $200,000. Noted Oct. 6.

N. J., Hoboken — FURNITURE FACTORY—Ferguson Bros. Mfg., Co., 832 Monroe St., general contract 2 story and basement, rein.-con., brick and steel, 704-20 Monroe St., to Lemouze Bros., Inc., 111 8th St., West New York, N. J. Archts. est. $200,000. Noted Oct. 27.

Pa., Erie — MANUFACTURING — Weil McLain Co., Michigan City, Ind., will build 80 x 300 ft. and 120 x 500 ft., brick and steel buildings, both 1 story, here. $250,000. Private plans.

Pa., Greenville — WAREHOUSE — Penn Power Co., Greenville, general contract 2 story and basement, 70 x 90 ft., brick and hollow tile, Acker Way, to H. W. Beil, Greenville. Engrs. est. $40,000.

Pa., Neville Island (Pittsburgh P. O.)—MANUFACTURING—Neville Chemical Co., general contract 1 story, brick and steel, concrete foundation, here, to Austin Co., Union Trust Bldg., Pittsburgh. Archts. est. $50,000.

Pa., Phila.—FACTORY—J. B. Hazlett, 2442 South Broad St., 2 story and basement, 56 x 187 ft., factory, Indiana and Ridge Rds., to McCormick-Lenham Co., 2403 South Broad St.

Pa., Phila.—FACTORY—Ballinger & Co., archts., 12th and Chestnut Sts., 2 story and basement, 120 x 950 ft., brick and steel, plain foundation, Tulip and Aramingo Sts., to W. Steele & Son, 15th and Cherry Sts., for Watson Realty Co. (J. W. Watson Co.), 24th and Locust Sts. This corrects report in Nov. 3 issue.

N. C., Statesville—SILK MILL—Gagner Mfg. Co., Adams, Mass., general contract 1 story, 92 x 216 ft. silk mill, here, to Grier-Lowrance Constr. Co., Statesville. Noted Oct. 27.

Fla., Tampa—POWER PLANT—Tampa Electric Co., Tampa and Cass Sts., new power plant on 22 acre site, Hookers Point, to Stone & Webster, Inc., 147 Milk St., Boston, Mass. Engrs. est. to exceed $5,000,000.

O., Cleveland — FACTORY — Properties Co., 879 East 70th St., 2 story and basement, 80 x 187 ft., brick and rein.-con., 875 East 70th St., to Uhl-Jaster Co., 2341 Carnegie Ave. Archts. est. $75,000.

O., Cleveland — COLD STORAGE and ICE PLANT — City Ice & Fuel Co., c/o E. C. Balzhiser, 6611 Euclid Ave., 6 story and basement, 200 x 200 ft., brick and rein.-con., East 37th St. and Burwell Ave., to Bloom-Sinek Co., 33 South Clark St., Chicago, Ill. Archts. est. $600,000.

Ill., Chicago—FACTORY—Russakov Can Co., Carpenter St. and Ogden Ave., masonry contract 1 story, 194 x 323 ft., brick, 844-62 North Ogden Ave., to H. Barth, 3128 North Kenneth Ave. Archts. est. $110,000.

Ill., Chicago—LUMBER WAREHOUSE—A. Epstein, archt., 2000 West Pershing Rd., masonry contract 2 story, 85 x 180 ft., brick, 3900 Pershing Rd., to Brockob Constr. Co., 815 South Cicero Ave., for Pershing Road Warehouse Co., 3900 Pershing Rd. Archts. est. $96,000. Noted Oct. 6.

Ia., Dubuque — FACTORY — Maisewood Products Co., 3 story 60 x 450 ft., steel and asbestos protected metal, plain foundation, to W. L. Yocum, Dubuque, $80,000. Noted June 30.

Minn., Austin—BOILER HOUSE—City, 1 story and basement, 50 x 89 ft., rein.-con., brick and steel, plain foundation, to Tapager Constr. Co., Albert Lea, $49,467.

Mo., St. Louis—ICE STORAGE PLANT—Polar Wave Ice & Fuel Co., 3638 Olive St., 1 story, 75 x 130 ft., rein.-con. and brick, 6801 Arsenal St., to Woermann Constr. Co., 1441 Syndicate Trust Bldg. Archts. est. $60,000.

Mo., St. Louis — STOVE FACTORY — Bucks Stove & Range Co., 3500 North 2nd St., repairing and altering 2 story and basement, brick and timber, North 2nd St., damaged by tornado, to Frantz & Frantz Constr. Co., 4654 Loughborough St. Archts. est. $45,000.

Tex., Galveston — DAIRY — Galveston Model Dairy Co., 706 23rd St., general contract 1 story, 42 x 120 ft. dairy plant, to Johnson Bros., Guaranty Bldg., $40,000. Noted Oct. 13.

Japan, Yokohama — FACTORY and WAREHOUSE — Ford Motor Co., Highland Park, Detroit, Mich., 1 story, 300 x 480 ft., brick and steel, here, to H. K. Ferguson Co., Hanna Bldg., Cleveland, O. Archts. est. $1,000,000.

Buildings—Educational, Religious

Proposed Work

Me., South Portland (br. Portland) — CHURCH — Calvary Roman Catholic Church, Main St., plans church, Main St. $150,000 or more. Engineer and architect not selected.

Mass., Fall River—TERMINAL HIGH SCHOOL—City, W. Pritchard, chn. com., takes bids after Nov. 22, 3 and 5 story and basement, 150 x 240 ft., brick, steel, stone and granite, plain foundation, Rock St., here. $1,000,000. E. H. Corbett, 70 Bedford St., New Bedford, archt. J. F. Cullen, 29 Newbury St., Boston, advisory archt. Noted Sept. 15.

Mass., Grafton—HIGH SCHOOL—Town, A. S. Cole, receiving competitive plans altering and constructing high school addition. $150,000. Engineer and architect not selected.

Mass., Hingham—HIGH SCHOOL—Town, Bd. Educ., Town Hall, plans rebuilding high

Buildings—Educational, Religious (Cont.)

school, recently destroyed by fire. To exceed $150,000. Engineer and architect not selected.

Mass., Lynn — NURSES HOME — Lynn Hospital, 212 Boston St., having preliminary sketches made by Sanborn & Weed, 38 Exchange St., nurses home on hospital grounds. $150,000 or more.

Mass., Medford (br. Boston) — MEN'S DORMITORY—Tufts College, J. A. Cousens, pres., having plans prepared by Andrews, Jones, Biscoe & Whittmore, 50 Congress St., Boston, 3 story and basement, brick and limestone, plain foundation, college grounds. $150,000.

Mass., New Bedford—CHURCH—Trinitarian Church, 636 Purchase St., having plans prepared by Cram & Ferguson, 248 Boylston St., Boston, and C. Hammond & Son, associated archts., 179 North Water St., church and parish house, Hawthorn St. To exceed $150,000.

N. Y., Freeport—SCHOOL—Bd. Educ. having plans prepared by W. S. Bessell, 58 West 49th St., addition, Archer St. $275,000.

N. Y., Great Neck—HIGH SCHOOL—Bd. Educ. having plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, 3 story and basement, brick and steel, plain foundation, near Nirvana Ave. $800,000. Noted July 14.

N. J., Gladstone—ORPHANAGE—Villa O'Connor plans 3 story and basement, brick and steel, plain foundation. $150,000. Engineer and architect not selected.

N. J., Hillside (br. Elizabeth)—SCHOOL—Bd. Educ., Town Hall, plans 2 story and basement, brick and steel, plain foundation. $200,000. Engineer and architect not selected.

N. J., Madison—LIBRARY and DORMITORY—Drew Theological Seminary, 36 Madison Ave., plans brick and steel, plain foundation. $500,000 funds being raised for same. Engineer and architect not selected.

N. J., Newark — HIGH SCHOOL — Bd. Educ., City Hall, Broad and Green Sts., having plans prepared by Guilbert & Betelle, 20 Branford Pl., 3 story and basement, brick and steel addition to West Side High School, plain foundation, South Orange Ave. $225,000. Noted Oct. 13.

N. J., North Plainfield (mail Plainfield)—SCHOOL—St. Josephs Church, W. A. Giffillan, pastor, 43 Manning Ave., having plans prepared 2 story and basement, brick and steel, plain foundation, Manning Ave. $150,000. Private plans.

N. J., Paterson—SCHOOL—J. C. Van Vlandren, archt., 140 Market St., takes bids about Nov. 30, 2 story and basement, brick and steel, plain foundation, North 8th St., for Eastern Academy, 273 North 7th St., Prospect Park Sect. $150,000. Noted Oct. 20.

N. C., Raleigh—HIGH SCHOOL—City, H. F. Srygley, supt. schools, plans high school, 800 to 1,000 seating capacity, on Smallwood property in western section city. $500,000.

Ga., Augusta—NURSES HOME—City, c/o J. W. Westmoreland, rejected bids 3 story nurses home. $175,000. Noted Oct. 27.

O., Cleveland—SCHOOLS—Voted Nov. 8, $1,500,000 bonds, Robert Fulton Elementary School, East 140th St. and Byron Ave., $494,000; Oak Park Elementary School, West 30th St. and Oak Park, $494,000; and 2 new Junior High Schools, all foregoing 2 story and basement, brick, steel and concrete. G. M. Hopkinson, Auditorium Garage Bldg., archt. Noted Sept. 1.

O., Hamilton—SCHOOL—Voted $1,500,000 bonds, new school.

O., Hamilton — SCHOOL — Butler Co. voted $150,000 bonds, new school in Fairfield Twp.

O., Harrison (Dayton P. O.)—SCHOOLS—Voted $625,000 bonds, new schools.

O., Massillon — SCHOOL — St. Marys Roman Catholic Church, N. A. Hassel, pastor, having sketches made by Potter, Gabele & Co., Prospect-4th Bldg., Cleveland, 2 story and basement, brick, steel and concrete school. $200,000.

O., Oakwood (Dayton P. O.)—SCHOOLS—Voted $324,000 bonds, new schools.

O., Van Buren Twp. (Dayton P. O.)—SCHOOL — Voted $500,000 bonds, new school.

O., Youngstown — SCHOOL — Bd. Educ. Mahoning Co. plans brick building adjoining present school, Boardman Twp. $150,000.

Ind., Bloomington — FIELD HOUSE — Indiana University soon takes bids 1 story, 30 x 200 ft., 15,000 seating capacity, rein.-con., brick and steel indoor field house, $300,000. R. F. Daggett, 922 Continental Bank Bldg., Indianapolis, archt. Noted Oct. 6.

Ind., Evansville — HIGH SCHOOL — School Comrs. having preliminary plans prepared by Fowler & Karges, Furniture Bldg., 2 story and basement, rein.-con., brick and steel, Garvin and Bellemeade Sts. $300,000.

Ill., Chicago—ART INSTITUTE—Art Institute of Chicago, C. H. Burkholder, secy., Michigan Ave. and Adams St., having sketches made addition, Michigan Ave. and Adams St. $5,000,000-$12,000,000. Engineer and architect not selected.

Minn., Minneapolis—BIBLE INSTITUTE—Lutheran Bible Institute, S. Miller, dean, 226 Fairview Ave. S., St. Paul, having plans prepared by A. Dahlstrom, 116 Oak Grove St., 12 story and basement, rein.-con. and brick, Portland Ave. and 17th St., here. $500,000.

Minn., Minneapolis—MEN'S DORMITORY—University Minneapolis, F. R. Snyder, pres. Bd. Regents, having plans prepared by C. H. Johnston, 360 Robert St., St. Paul, 3 story and basement, rein.-con., brick and stone, on campus. $300,000.

Neb., Lincoln — HIGH SCHOOL — Bd. Educ., J. G. Ludlam, secy., having plans prepared by Davis & Wilson, 525 South 13th St., and takes bids early in 1928, Junior High School, 2 story and basement, 130 x 265 ft., rein.-con., brick and stone, between 11th, 12th, B and C Sts. $300,000. Noted June 22.

Neb., Lincoln — NURSES HOME — St. Elizabeths Hospital, South St., having preliminary plans prepared by D. X. Murphy & Bros., Louisville Trust Bldg., Louisville, Ky., 4 story and basement, rein.-con., brick and stone, 13th and South Sts. $150,000.

Kan., Wellington—HIGH SCHOOL—Bd. Educ. had plans prepared by Schmidt, Boucher & Overend, 4th Natl. Bank Bldg., Wichita, and soon takes rein.-con., brick and stone high school. $300,000. Noted Aug. 25.

Mo., St. Louis—NEUROLOGICAL INSTITUTE—Washington University School of Medicine, 602 South Euclid Ave., having preliminary plans prepared rein.-con., brick, steel and stone, Scott Ave. $350,000.

Mo., Springfield—SCHOOLS—Bd. Educ. having preliminary plans prepared by C. A. Smith, 800 Finance Bldg., Kansas City, new rein.-con., brick and stone schools, also additions to exsiting schools. $1,750,000 bond election soon for same. Noted Mar. 24.

Tex., Denton—DORMITORY—College of Industrial Arts, c/o L. H. Hubbard, pres., having plans prepared by S. Simons, Lufkin, fireproof dormitory. $150,000. Noted Nov. 17.

Tex., Port Arthur—SCHOOL—Bd. Educ. plans schools. $1,500,000. M. Lemmon, 407 Const-Ind. Bldg., Dallas, archt. Noted Oct. 20.

Okla., Ada — HIGH SCHOOL — Voted $190,000 bonds, 3 story and basement, rein.-con. and brick, plain foundation, for Bd. Educ. Engineer and architect not selected.

Okla., Konawa — HIGH SCHOOL — Bd. Educ., having preliminary plans prepared brick, plain foundation. $150,000. Engineer and architect not selected.

Okla., Okmulgee—HIGH SCHOOL—Bd. Educ. had plans prepared by Smith & Senter, Commerce Investment Bldg., 4 story and basement, 75 x 80 ft., rein.-con. and brick, plain foundation, 7th St. $150,000.

Ore., Hillsboro—SCHOOL—Comrs. Union High School Dist. 3, having plans prepared by F. M. Stokes, Chamber of Commerce Bldg., Portland and take bids about Jan. 1, 2 story and basement, 100 x 250 ft., rein.-con. and brick, plain foundation. $175,000.

Calif., Stockton—LIBRARY—College of Pacific having plans prepared by Davis-Pearce Co., Grant and Weber Sts., 2 story, brick, on campus. $225,000.

Ont., Hamilton — SYNAGOGUE — Beth Hacob Synagogue, Hunter and Park Sts., plans 1 and 2 story and basement, rein.-con., brick and steel, plain foundation, Hunter and Park Sts. $150,000. Engineer and architect not selected.

Bids Desired

Mass., Wellesley—AUDITORIUM—Dana Hall School, H. T. Cooke, principal, 66 Grove St., taking bids 2 story, 60 x 100 ft., brick, plain foundation. $150,000. Henry & Richmond, 12 West St., Boston, archts. Noted Aug. 4.

N. Y., New Rochelle—CHURCH—Jan. 1, by First Presbyterian Church, c/o A. Reynolds, 170 Elm St., and J. R. Pope, archt., 542 5th Ave., New York City, 1 story, brick, Main St., here. $450,000. Noted Oct. 27.

N. Y., New York—SCHOOL—Dec. 8, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn general contract P. S. 7, Kingsbridge Ave. and West 232nd St., here, for Bd. Educ., 500 Park Ave.

N. J., Teaneck (mail West Englewood)—HIGH SCHOOL—Dec. 6, by Bd. Educ., Town Hall, general contract 3 story and basement, 250 x 250 ft., brick and steel, plain foundation. $650,000. Hacker & Hacker, Fort Lee Trust Bldg., Fort Lee, archts. Noted Aug. 25.

Pa., State College—RECREATION—Dec. 7, by Penna. State College, 3 story and basement, 169 x 224 ft., brick, steel and stone, plain foundation, here. C. Z. Klauder, 1429 Walnut St., Phila., archt.

D. C., Wash.—SCHOOL—Dec. 8, by District Comrs., District Bldg., 8 room addition, combination gymnasium and assembly hall, and alterations at Bernard School, containing 394,000 cu.ft. floor space. Noted Sept. 29.

Ga., Thomasville—CHURCH—Dec. 15, by R. G. Fleetwood, of First Baptist Congregation, 3 story and basement, 100 x 125 ft., brick, steel and rein.-con. church. $150,000. N. S. Hamilton, Wynne Claughton Bldg., Atlanta, archt.

Ky., Louisville — SCHOOL — Dec. 8, by Bd. Educ., 8th and Chestnut Sts., 3 and 4 story and basement, irregular shaped, rein.-con., brick and steel, plain foundation, 40th and Herman Sts. $800,000. C. M. Cooley, c/o owner, archt. Noted Nov. 17.

Ind., Elkhart—HIGH SCHOOL—School Comrs. taking bids 2 story and basement, 83 x 123 ft., brick and steel high school, $150,000. H. Miller, 531 Monger Bldg., archt.

Ind., Indianapolis—SCHOOL—Dec. 5, by School Comrs., 150 North Meridian St., School 73, 2 story and basement, rein.-con., brick and steel, 4101 East 30th St. $155,000. B. Williams, 1139 Knight of Pythias Bldg., engr. Harrison & Turnock, 500 Bd. of Trade Bldg., archts.

Ind., Muncie—TRAINING SCHOOL—Nov. 29, by State Normal, 1 story, 116 x 262 ft., rein.-con., brick and steel, on campus Ball Teachers College, $275,000. Snyder & Babbitt, 1212 Hayden Bldg., Toledo, O., archts. Noted July 14.

Mich., Berrien Springs—SCHOOL—Nov. 28, by Bd. Educ., 2 story and basement, 66 x 190 ft., rein.-con., brick and steel, plain foundation. $150,000. Van Leyon, Schilling & Keough, 3440 Cass Ave., Detroit, archts. Noted Nov. 3.

Mich., Grand Rapids—SCHOOL—Nov. 30, by H. N. Morrill, bus. mgr. Bd. Educ., 3 story and basement, rein.-con., brick and steel, plain foundation, Eastern Ave. $300,000. Turner & Thebaud, 925 Michigan Trust Bldg., archts. Noted Sept. 8.

Mich., Troy — SCHOOL — Van Leyen, Schilling & Keough, archts., 3440 Cass Ave., Detroit, taking new bids 2 story and basement, 125 x 165 ft., rein.-con., brick and steel, plain foundation, for Bd. Educ. $150,000.

Wis., Wauwatosa — HIGH SCHOOL — Nov. 28, by Herbst & Kuenzli, archts., 130 Wisconsin Ave., Milwaukee, 3 story, 40 x 40 ft., and 135 x 160 ft., rein.-con. and brick, plain foundation, Wauwatosa St. and 1st Ave., for Bd. Educ.

Kan., Hays—SCIENCE HALL—Jan. 10, by H. E. Shrack, state bus. mgr. Kansas State Teachers College, 3 story and basement, 51 x 210 ft. and 81 x 105 ft., rein.-con. and stone science hall. $160,000. C. D. Cuthbert, State House, Topeka, archt. Noted Oct. 27.

Kan., Independence—CHURCH—Dec. 10, by J. H. Felt & Co., archts., 300 West 47th St., Kansas City, Mo., 2 story and basement, rein.-con. and stone, here, for Presbyterian Congregation, C. A. Smith, c/o Independence Millwork Co., chn. building com. $150,000. Noted Nov. 3.

Calif., Los Angeles—CONVENT—Convent of Good Shepherd, 1312 South Arlington Ave., taking bids 4 story and basement, 35 x 225 ft. with two 2 story 30 x 100 ft., and 30 x 60 ft. wings, rein.-con., 1500 South Arlington Ave. $250,000. Noted Feb. 24.

Contracts Awarded

R. I., Providence — CHURCH and SOCIAL SERVICE—Tabernacle Methodist Episcopal Church, G. D. Stanley, pastor, 2 story and basement, 50 x 100 ft., and 60 x 100 ft., brick, plain foundation, Plainfield St., to A. W. Merchant, Inc., 728 Hospital Trust Bldg. Archts. est. $150,000. Noted Oct. 27.

Conn., Storrs—COLLEGE—Connecticut Agriculture College, F. L. Salmon, state comptroller, 3 story and basement, 60 x 110 ft., and 60 x 220 ft., brick, steel, and limestone laboratory, classroom and administration building, to C. Smith & Sons, Inc., 254 Main St., Derby, $343,930. Noted Oct. 27.

N. Y., Binghamton—HIGH SCHOOL—Bd. Educ., general contract addition St. Johns Avenue School, to F. W. O'Connell, 7 Beacon St., $155,000.

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Buildings—Educational, Religious (Cont.)

N. Y., Buffalo—SCHOOL—Bd. Educ., 3 story and basement, brick, steel and concrete addition to P. S. 9, to M. B. Parker Constr. Co., 1836 Euclid Ave., Cleveland, O. Archts. est. $270,000.

N. J., New Brunswick—SCHOOL—Bd. Educ., Livingston Ave., general contract 2 story and basement, 55 x 130 ft., brick and steel, plain foundation, Wyckoff and Bartlett Sts., to J. L. Snitzler, Commercial Ave., $111,887. Noted Aug. 18.

N. Y., Tarrytown—LIBRARY—Village, general contract 1 story library, to E. L. Smith Constr. Co., 70 East 45th St., New York City. Archts. est. $200,000.

N. J., Parsippany (mail Boonton)—SCHOOL — Bd. Educ. Hanover Twp. Morris Co., Whippany School, Whippany, general contract Parsippany-Troy Hills School, here, to Bontempo & D'Annunzzi, 8 Flagler St., Morristown.

Pa., Mt. Lebanon (Pittsburgh P. O.)—CHURCH—Mt. Lebanon Presbyterian Congregation, West Liberty Ave., general contract 1 and 2 story and basement church, here, to E. A. Wehr, E. E. Savings & Trust Bldg., Pittsburgh. Archts. est. $150,000. Noted Sept. 1.

Pa., Phila. — DORMITORY and SERVICE—Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., Thomas Shallcross School for Boys, 2.5 story and basement, 78 x 177 ft. dormitory, and 1 story and basement, 86 x 101 ft. service building, rein.-con., brick and steel, plain foundations, Andalusia Turnpike and Byberry Rd., to R. S. Herzog, 10 South 18th St., $328,680. Noted Nov. 3.

Md., Baltimore—CHURCH—St. Ambrose Roman Catholic Church, H. E. Monoghan, pastor, Park Heights and Wylie Aves., rein.-con., brick and stone, Park Heights and Wylie Aves., to M. A. Long Co., 10 West Chase St., $150,000. Noted Oct. 20.

Md., Baltimore—MEDICAL LIBRARY—E. L. Tilton, archt., 141 East 45th St., New York City, 3 story and basement, 76 x 156 ft., rein.-con., brick and limestone, Wolfe and Monument Sts., here, for Johns Hopkins Hospital, Wolfe and Monument Sts., to Consolidated Eng. Co., 20 East Franklin St., $400,000. Noted Oct. 27.

D. C., Wash. — HIGH SCHOOL — District Comrs., District Bldg., constructing Gordon Junior High School, here, to G. E. Wyne, 13th St. and Dogwood Ave., N. W. $495,000. Noted Oct. 20.

Ala., Tuscaloosa—COLLEGE—Bd. Trustees State Building Comn., Montgomery, 3 story, 66 x 200 ft., brick, concrete limestone and steel, on campus, here, for Alabama University, to Day & Sachs, 1818 2nd Ave. N., Birmingham. $185,000.

O., Columbus — HIGH SCHOOL — Bd. Educ., W. V. Drake, clk., general contract Junior High School, 2 story and basement, 200 x 250 ft., brick, terra cotta and concrete, Indianola Ave., to Boyajohn & Barr, 299 Park St., $331,693. Noted Oct. 20.

O., Youngstown—HIGH SCHOOL—City, Junior High School, to Hawkins-Downie Co., 630 Market St., $244,000.

Ind., Indianapolis — SCHOOL — State Blind School, general contract 2 story, rein.-con., brick and steel, incl. administration, industrial, commissary and 3 dormitories, 75th St. and College Ave., to Service Constr. Co., 301 Castle Hall Bldg., $371,364. Noted Oct. 20.

Mich., Detroit—CHURCH—Grand River Methodist Episcopal Church, Grand River Ave. (1st unit) 1 and 2 story and basement, 100 x 120 ft., brick, steel and stone, plain foundation, West Chicago Blvd., to Corrick Bros., 507 Owen Bldg. Archts. est. $200,000.

Ill., Chicago—SYNAGOGUE—E. P. Steinberg, archt., 360 North Michigan Ave., masonry contract 3 story, 105 x 125 ft. synagogue, 1439-47 Pratt Blvd., to J. McHugh & Sons, 840 West 70th St.; plumbing, to H. P. Reger & Co., 106 North La Salle St.; heating, to Krane Eng. Co., 1428 Orleans St.; and carpentry, to I. E. Bass 5688 Magnolia Ave., for Temple B'Nai Zion, c/o architect. Archts. est. $250,000 Noted Sept. 15.

Ill., Oak Park—FIELD HOUSE, GYMNASIUM, etc.—Bd. Educ., general contract 2 story, 193 x 246 ft. field house, and 2 story, 125 x 171 ft. gymnasium, incl. swimming pools, etc., East and Seville Aves. and Ontario and Lake Sts., to H. D. Moreland & Co., 3701 Sheffield Ave., Chicago. Archts. eset. $300,000 each.

Mo., Kansas City—NURSES HOME—Dept. Pub. Wks., M. S. Murray, dir., general contract, brick and rein.-con., 23rd St. and Gillham Rd., to Sharp Bros. Contg. Co., 609 Orear Leslie Bldg., $150,000. Noted Nov. 3.

Mo., Webster Groves (Ind. br. St. Louis) —DORMITORY—H. P. Hess, archts., 1001 Ambassador Bldg., St. Louis, general contract 5 story, 36 x 128 ft., and 34 x 162 ft., brick, stone and rein.-con., Lockwood and Plymouth Aves., here, to Gillespie & Daly, 714 International Life Bldg., St. Louis, for Webster Groves College. Archts. est. approximately $350,000. Noted Sept. 22.

Tex., Sherman — ADMINISTRATION — Kid-Key College, c/o E. Spurlock, pres., general contract 3 story, 50 x 100 ft., rein.-con., brick terra cotta and hollow tile, to Max Gibbs & Son, Sherman. Archts. est. $275,000. Noted Aug. 25.

Calif., Los Angeles—CLASSROOM—University of Southern California, 3 and part 4 story, 117 x 119 ft., rein.-con., on campus, to Scofield Eng.-Constr. Co., Pacific Finance Bldg., $250,000.

Calif., Oakland—SCHOOL—School Dist., 2 story, brick addition, to McClymonds School, 26th and Filbert Sts., to J. E. Branagh, 184 Perry St., $128,750.

Ont., Hamilton — SCHOOL — Dept. Pub. Wks., Parliament Bldgs., Toronto, general contract 3 story and basement, 60 x 100 ft., 55 x 75 ft., and 16 x 36 ft., rein.-con., brick and steel, plain foundation, Wentworth St. N., to W. H. Yates Constr. Co., 17 Main St. E. Archts. est. $200,000.

Ont., St. Catharines — CONVENT — Carmelite Sisters, general contract 3 story and basement, rein.-con., brick and steel, plain foundation, Yate St., to Newman Bros,. 75 St. Paul St. Archts. est. $150,000.

Ont., Toronto—CHURCH—J. G. Morton, archt., 61 Dixon Ave., general contract 1 and 2 story and basement, rein.-con., brick and steel, plain foundation, Roncesvalles and Hewitt Aves., to Gatehouse Bros., 77 Victoria St., for High Park Baptist Church, 16 Redford Ave., J. Linton, pastor. Archts. est. $150,000. Noted Sept. 22.

Federal Government Work

Proposed Work

N. Y., Brooklyn—Sprinkler—Spec. 5418—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans extending sprinkler system, Navy Yard, here.

Md., Annapolis—Dredging—Spec. 5513—Bureau Yards & Docks, Navy Dept., Wash., D. C., Oct. 26, rejected bids dredging at Naval Academy, here. Noted Nov. 3.

Fla., Miami Beach (br. Miami)—Jetties—U. S. Engineer Office, Jacksonville, plans extending North and South Jetties, and repairing revetment at shore end of South Jetty, here.

Fla., Pensacola — Compass House and Pigeon Loft—Spec. 5468—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans compass house and pigeon loft at Naval Air Station, here.

Ky., Louisville — River and Harbor Work—U. S. Engineer Office plans maintenance and improvement existing river and harbor works, Lock and Dam 52, Ohio River.

Minn., Hastings—Lock and Dam—U. S. Engineers Office, 516 Bremer Arcade, St. Paul, plans steel and concrete lock chamber and 3,500 ft. dam with tainter gate discharge sections, on pile foundations, with steel cutoff wall, here.

Mo., St. Louis—Motor—U. S. Engineer Office plans 940 hp. d.c. motor for U. S. Dredge "Fort Gage."

Bids Desired

Mass., Boston — Garage — Nov. 30, by Treas. Dept., at office Superv., Archt., Wash., D. C., 3 story 115 x 300 ft. garage, 176-194 Ipswich St., here, for U. S. Post Office Dept., Wash., D. C.

N. Y., Rochester—Changes—Dec. 13, by Treas. Dept., at office Supervising Archt., Wash., D. C., changes at U. S. Post Office, here.

Del., Bethany Beach—Mess Halls, etc.—Nov. 30, by Office U. S. Property & Disbursing Officer, Wilmington, 13 mess halls, 1 administration building, 1 storehouse, 1 power house, water and sewerage system, etc., here.

D. C., Wash.—Boilerhouse and Heating System—Dec. 1, by Quartermaster, Bolling Field, constructing boiler house and heating system, in Hangars 1, 2, 3, 4, 5, 6 and 10, also utilities at Bolling Field, here.

Ga., Savannah—Quarters—Dec. 19, by Treas. Dept., at office Supervising Archt., Wash., D. C., medical officers quarters. U. S. Marine Hospital, here. J. A. Wetmore, acting superv. archt. Noted Nov. 17.

Tenn., Nashville—Rip Rap—See "Contracts Awarded."

Tex., Galveston—Tug—Dec. 17, by U. S. Engineer Office, constructing one 65 ft. 6 in. steel tug; adv. E. N.-R. Nov. 24.

Calif., Los Angeles—Dredging—Dec. 9, by U. S. Engineer Office, 725 Central Bldg., dredging Los Angeles Harbor.

T. H., Pearl Harbor — Quarters, etc. — Spec. 5338—Jan. 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., quarters, laboratory and animal house, at Naval Operating Base (Hospital), here. Noted Nov. 3.

Bids Received

N. Y., Fort Wadsworth (mail Staten Island)—Barracks — Constructing Quartermaster, 39 Whitehall St., New York City, Nov. 15, constructing Battalion barrack building, here, from Murch Bros., Railway Exch. Bldg., St. Louis, Mo., $306,000. Noted Nov. 10.

Ark., Hot Springs — Steam Distribution Lines—Constructing Quartermaster, Army and Navy General Hospital, Nov. 3, outside distribution lines, etc., from J. L. Powers, Bennettsville, S. C., $16,900 (120 days). Noted Oct. 13.

Porto Rico, San Juan—Quarters—Spec. 5448—Bureau Yards & Docks, Navy Dept., Wash., D. C., Nov. 16, double quarters, at Naval Radio Station, here, from Benitez & Gautier, Sauturce, $9,500. Noted Oct. 20.

Contracts Awarded

New York—Dredging—U. S. Engineers Office, Army Bldg., 39 Whitehall St., New York City, dredging 37,100 cu.yd. place measurement, in Browns Creek, here, to Heling Constr. Corp., Lindenhurst, $11,501. Noted Nov. 3.

D. C., Anacostia—Air Station and Radio Towers — Spec. 5508 — Bureau Yards & Docks, Navy Dept., Wash., D. C., Naval Air Station and radio towers, here, to Pittsburgh-Des Moines Steel Co., Professional Bldg., Pittsburgh, Pa., $6,880 (120 days). Noted Nov. 3.

La., New Orleans—Levee Work—U. S. Engineer Office, Turner Bayou Levee, to J. A. Lindstrom, Port Arthur, Tex., $49,050; and Lot 2 in Ben Hur Levee, Ponchartrain Levee Dist., to Lower Coast Constr. Co., Godchaux Bldg., $34,320, and Lot 1 to be done by government work.

Tenn., Nashville—Rip Rap—U. S. Engineer Office will rip rap river embankment at Lock 2, in Cumberland River by own forces. $25,000.

Tex., El Paso—Mezzanine—Treas. Dept., at office Supervising Archt., Wash., D. C., mezzanine floor, etc. at U. S. Post Office, here, to G. Gilchrist, 618 Mills St., $4,605. Noted Nov. 10.

Wash., Puget Sound — Motor Generator Sets—Spec. 5447—Bureau Yards & Docks, Navy Dept., Wash., D. C., motor generator sets at Navy Yard, here, to General Electric Co., River Rd., Schenectady, N. Y., $65,128 (200 days). Noted Nov. 10.

P. I., Cavite—Officers Quarters—Spec. 5395—Bureau Yards & Docks, Navy Dept., Wash., D. C., 3 sets commissioned officers quarters at Naval Fuel Depot Reservation, here, to J. E. Grant, 129 Calle Padre Faura, Manila, $30,000 (160 days).

FEDERAL POWER COMMISSION

Application for License and Permits

Applications

840—J. Marty, Sr., Broadhead, Wis., wants license power project within Tongass Natl. Forest, Southeastern Alaska, near Juneau, on Spruce Creek.

841—J. M. DeCoster, L. Poitevin and S. Meikle, Idaho Falls and Victor, Idaho, wants preliminary permit power project on Palisade Creek, tributary of Snake River, within Targhee Natl. Forest, Bonneville Co.

842—R. D. Webb, Minden, La., wants preliminary permit power project on Lake Fort of Gunnison River, on public lands, in Hinsdale Co., Colo.

843—Gasconade River Power Co., Kansas City, Mo., wants preliminary permit power project in Gasconade River, in Osage, Maries and Phelps Counties.

844—City of Los Angeles, City Hall, Los Angeles, Calif., wants license transmission line on public lands in Inyo County running between Los Angeles Big Pine Creek Power Plant 3 and Los Angeles Intake Gorge Transmission line.

845—Deschutes Power & Light Co., Portland, Ore., wants license transmission line on public lands, in Deschutes and Jefferson Counties, between Culver and Prineville.

846—North Park Mining & Development Co., Concordia, Kan., wants preliminary permit power project on Big Creek, in Hayden Natl. Forest, Jackson Co., Colo.

Unclassified

Proposed Work

Causeway, etc. — Boston, Mass. — Dept. Pub. Wks., J. H. Sullivan, comr., plans widening Causeway and Nashua Sts. $255,000.

Grand Stand—Clinton, Mass.—Town, W. Cogswell, chn. com., plans concrete and timber grand stand, Fulton Field. $25,000. Engineer not selected.

Piers—New Bedford, Mass.—City, T. H. Margeson, chn. com., making preliminary plans extending Pier 3, 200 ft. and Pier 4 60 ft., concrete and brick. $25,000. G. H. Nye, city engr.

Airport—Providence, R. I.—State plans airport, Gaspee Point within ten miles of here. $500,000.

Gas Holder—New Brunswick, N. J.—Pub. Serv. Corp., Terminal Bldg., Park Pl., Newark, having plans prepared by Pub. Serv. Production Co., 80 Park Pl., Newark, 500,000 cu.ft. storage gas holder and pumping station, here. $40,000.

Bulkheads—Surf, N. J.—City, N. Snyder, mayer, plans bulkheads in Barnegat Bay. $500,000.

Swimming Pool—Somerton (sta. Phila.), **Pa.**—Owner, c/o E. A. Schoeppe, archt., 1437 Spruce St., having plans prepared 75 x 100 ft., rein.-con. swimming pool, Lincoln Highway, here.

Causeway—Muskegon, Mich.—See "Streets and Roads."

Docks—Burlington, Ia.—Making plans 100 x 170 ft. fireproof dock house, timber dock, 5,000 ft. trackage, escalator, and 50 x 215 ft. steel wharf barge. $220,000. W. F. Schulz Eng. Co., Shrine Bldg., Memphis, Tenn., engrs.

Grain Elevator—Salina, Kan.—H. D. Lee Flour Mills Co. plans grain elevator, rein.-con., 350,000 bbl. capacity. $100,000.

Telephone Facilities—Missouri—Southwestern Bell Telephone Co., 11th and Pine Sts., St. Louis, plans expending $8,000,000, for telephone facilities improvements incl. new equipment and replacing, etc. old facilities, in Missouri, Kansas, Oklahoma, Texas and Arkansas. P. Redmond, genl. mgr.

Sand Plant—Kansas City, Mo.—Woods Bros. Corp., Security Bldg., plans sand plant, incl. equipment for cleaning sand. Private plans.

Stadium — St. Louis, Mo. — Washington University, Skinker and Forsythe Blvds., having preliminary plans prepared rein.-con. stadium, 25,000 seating capacity. $1,000,000. W. Edmunds, athletic dir.

Pumping Plant—Del Rio, Tex.—Illinois Pipe Line Co. making plans 2 pumping plants on oil line radiating from Yates Pool to refinery plant near here. $70,000. Private plans.

Airport — McAllen, Tex. — Owner, c/o W. R. McGarity, secy. Chamber of Commerce, purchased 200 acre site and plans airport, hangars and mechanical shop, etc. on International Highway. $60,000.

Light and Power Plant Equipment — Perryton, Tex. — Inland Utilities Co., subsidiary of Fairbanks-Morse & Co., 1218 Liberty St., Kansas City, Mo., making surveys installing additional engines and cooling system for light and power plant, here. $60,000. Private plans.

Gas Line—Port Neches, Tex.—Dixie Gas Co. making plans extending 6 and 8 in. natural gas mains in various streets. $35,000. Private plans.

Land Development—San Antonio, Tex.—J. M. Clark Sales Co., c/o L. A. Arneson & J. Clark, Gunter Bldg., purchased 100 acre site and plans sub-division improvement, incl. natural gas distributing system $20,000, waterworks $25,000, electric improvements throughout land $12,000, mostly equipment and materials, also paving $35,000, on Basse Rd., north side of city limits. Private plans.

Oil and Gas Refinery Plant—Wickett (near Sand Hills mail Monahans), **Tex.**—Blue Bonnet Oil & Refining Co. plans oil and gas refinery plant. $150,000. Private plans.

Transmission System — Oklahoma and Missouri—Empire Dist. Electric Co., Joplin, Mo., making plans 14 mi. 13,200 volt transmission system in Fairland, Okla., and transmission line to Seneca, Mo. $30,000. Private plans.

Grain Elevator—Washington C. H., O.—Fayette Produce Co. having plans prepared grain elevator, incl. office and warehouses. $40,000. Private plans.

Hydro-Electric Development — Olympia, Wash. — Hamma Hamma Paper & Power Co., E. M. Chandler, pres., plans expending $1,500,000, developing electric energy for manufacturing and public service purposes, incl. dam and facilities to produce 19,000 hp., $480,000.

Rip Rap Stone—Coronado, Calif.—W. T. Clark, city clk., rejected bids furnishing and placing 5,000 tons rip-rap stone on Coronado Sea Wall. Will readvertise. Noted Nov. 3.

Lighting System—Inglewood, Calif.—O. H. Duelke, city clk., plans ornamental lighting system on Commercial and Queen Sts., etc. To exceed $25,000.

Lighting System—Oakland, Calif.—Plans ornamental lighting system on portions 11th and Washington Sts., etc. To exceed $25,000. G. N. Randle, city engr.

Bids Desired

Dry Dock—Brooklyn, N. Y.—Dec. 12, by F. R. Harris, engr., 551 5th Ave., New York City, 750 ft. graving dry dock at Robbins Dry Dock & Repair Co. plant, Erie Basin, here, for Todd Shipyards Corp., 25 Bway., New York City. Noted Nov. 3.

Exit Facilities and Fire Stops—Poughkeepsie, N. Y.—Dec. 14, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Albany, constructing exit facilities and fire stops at Hudson River State Hospital, here; adv. E. N.-R. Nov. 24.

Dock—Punta Gorda, Fla.—Dec. 1, at City Hall, dock, channel and turning basins, 26,000 cu.yd. dredged excav. (spoiled), 47,000 cu.yd. dredged embankment fill, 20,000 ft. bulkhead timber in place and 5,700 sq.yd. paving, etc. C. K. Dodd, city mgr.

Land Development—Lockney, Tex.—See "Contracts Awarded."

Generator, etc.—Seattle, Wash.—Dec. 2, by Bd. Pub. Wks., installing a.c. generator approximately 14,285 kva. maximum capacity, on horizontal shaft, reaction type turbine driven, also exciter, valves, transformers, switches, etc. in Unit 6 of Cedar Falls hydro-electric development. $200,000.

Undergrade Crossings, etc. — Applegate, Calif.—Dec. 5, by State Hy. Dept., Sacramento, 2 undergrade crossings under Southern Pacific R.R. tracks near here, Placer Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Contracts Awarded

Storage Tanks — Chelsea (br. Boston), **Mass.** — Mexican Petroleum Corp., 111 Eastern Ave., reconstructing 6 steel storage tanks, on Western Ave., to C. B. Maguire, Weybosset St., Providence, R. I. Engrs. est. $25,000.

Fire Alarm System—Brooklyn, N. Y.—J. J. Dorman, comr. Fire Dept., Municipal Bldg., New York, portion underground fire alarm system in Greenpoint, Williamsburg, Eastern District, Bushwick, and Ridgewood Sections, here, to W. T. Dipple, Inc., 1 Hunter Ave., Long Island City, $44,440. Noted Nov. 10.

Boilers, Mechanical Stokers, etc. — Milwaukee, Wis. — Dept. Pub. Wks., R. E. Stoelting, comr., moving and resetting two 300 hp. horizontal water tube boilers, and mechanical stokers, for North Point Pumping Station, to Industrial Heating & Eng. Co., 490 Bway., $77,560. Engrs. est. $44,000.

Stone Wall—Manhattan, Kan.—Kansas State Agricultural School, native stone wall, to M. J. Green, Manhattan. Engrs. est. $30,000. Noted Nov. 3.

Culverts—Minnesota—See "Streets and Roads."

Culverts — Nebraska — See "Streets and Roads."

Land Development — Lockney, Tex. — Stokes & Shields, Midland will develop subdivision, incl. watermains, laterals, sanitary sewers, natural gas distributing system. and paving roads, in West Lockney, by day labor. Private plans.

Materials

Proposed Work

Ohio Salt Glazed Vitr. Pipe, etc.—Muskegon Heights, Mich.—City soon takes bids 43,328 ft. 6- to 12-in. Ohio Salt Glazed vitr. pipe, and 700 ft. 6 in. c.i. Class "A" pipe. $8,000. C. F. Gamble, City Hall, engr.

Water and Sewer Pipe, etc.—Minneapolis, Minn.—F. S. Gram, city purch. agt., plans purchasing approximately 1,500 tons c.i. water pipe, 3,000 tons sulphate of alumina, 150 tons water castings; vitr. clay tile pipe and 400 tons sewer castings; also 125,000 bbl. portland cement, 2,000 tons asphalt, 5,000,000 paving bricks, 16,000 tons trap rock and 2.5 m.g. road oil, etc. N. W. Elsberg, City Hall, engr.

Road Oil—Anaheim, Calif.—E. B. Merritt, city clk., plans purchasing 2,500 bbl. road oil.

Cement—Merced, Calif.—A. A. Blakesley, ch. engr. Merced Irrigation Dist., plans purchasing in open market 4,000 bbl. cement. Former bids rejected.

Bids Desired

Fabricated Steel, Frogs, Crossings, etc.—Phila., Pa. — Nov. 29, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., at 15 North 32d St., fabricated steel for transmission towers, Contr. 125—1927; also frogs, crossings and crossovers, Contr. 126—1927.

Water Pipe—Chicago, Ill.—Nov. 28, by City, Room 406, City Hall, 609 tons 4 in. and 8 in. c.i. pipe, f.o.b. cars, at various pipe yards. R. W. Wolfe, comr. Pub. Wks.

Lumber — Knoxville, Ia. — Dec. 2, by Auditor Marion Co., 9 cars rough fir lumber, 1 car cypress piling and 1 car creosoted material. R. T. Johnson, Knoxville, co. engr.

Lead Pipe—Bristow, Okla.—City, M. Morrison, mayor, in market 5,000 ft. ¾ in lead water pipe for Waterworks Dept.

Pipe—Frederick, Okla.—City, J. G. Brown, mayor, in market 7,000 lin.ft. 4 and 6 in. Class "B" c.i. pipe for Waterworks Dept.

Road Oil—Fresno, Calif.—Dec. 6, by D. M. Barnwell, clk. Fresno Co., 72,500 bbl. natural crude oil, unprocessed, containing min. of 65% pure asphalt or bitumen, and 52,500 bbl. asphaltic oil prepared from products of California crude asphaltic petroleum containing min. of 73% pure asphalt or bitumen, (1 bbl. shall be understood to contain 42 gal.). C. P. Jensen, Cory Bldg., co. surv.

Pipe—Sanger, Calif.—Dec. 5, by M. W. Bacon, clk. Sanger Union High School Dist., 1,100 ft. 18 in. concrete pipe.

Bids Received

Structural Steel and Lumber—Cincinnati, O.—Comrs. Hamilton Co., Court House, 246,500 lb. structural steel for temporary viaduct over Cleveland, Cincinnati, Chicago & St. Louis Railroad tracks and Mill Creek, on 6th St., from General Iron Wks. Co., Front & Harriet Sts., $9,219 engrs. est. $10,846; also 6,760 lin.ft. white oak piling, 212,000 ft. structural fir timbers, 89,124 ft. No. 1 and 3,667 ft. No. 2 common pine, from Buskirk Lumber Co., 8th and Horne Sts., $16,296 engrs. est. $17,641. Noted Nov. 3.

Contracts Awarded

Pumps, etc.—Albany, N. Y.—Bd. Contr. & Supply, City Hall, to Worthington Pump & Mchy. Co., 115 Bway., New York City, two 10 m.g. pumps at $3,200 each, and one 15 m.g. motor driven pump $17,200; to United States C.I. Pipe & Fdry. Co., Burlington, N. J., 8,000 ft. 36 in. c.i. pipe at $37.50 per ton, 60 ft. 48 in. pipe $37.50, 54 tons special castings $100, and 37 tons flanged castings $140; to Chapman Valve Mfg. Co., Indian Orchard, Mass., two 30 in. hydraulic gate valves at $1,053 each, four 16 in. hydraulic gate valves $311, one 30 in. check valve $790, two 16 in. check valves $159, and one manually operated gate valve $211. Noted Nov. 3.

Fuel Oil—New Orleans, La.—Sewerage & Water Bd., 526 Carondelet St., 100,000 bbl. fuel oil, to New Orleans Refining Co., United Fruit Bldg., at $1.24 per bbl.

Water Pipe, etc.—Chicago, Ill.—Dept. Pub. Wks., Room 406, City Hall, 400 tons 6 in. c.i. water pipe at various pipe yards, to J. B. Clow & Co., North Talman Ave. and West Lake St., at $34.90 per ton, 5,880 tons 30- to 54-in. c.i. water pipe on various streets, to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., $39.90 and 210 tons 24 in. water pipe at 3150 South Sacramento Ave., to Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, Ala. $34.70.

Pipe—Compton, Calif.—For 3,359 ft. 4 in. and 1,830 ft. 8 in. Class 150 lb. pipe, to Pacific States Cast Iron Pipe Co., 417 South Hill St., at $0.38 and $0.73½ per ft., respectively; also 900 ft. 1 in. copper service pipe, to Muller Co., 2468 Hunter St., Los Angeles, at $24.38 per 100 ft.

Pipe — Santa Barbara, Calif. — C. E. Hasse, city purch. agt., 6,000 ft. 6 in. and 2,000 ft. 12 in. c.i. DeLavaud pipe, to Natl. Cast Iron Pipe Co., New Orpheum Theatre Bldg., Los Angeles, $6,412. Noted Nov. 3.

See proposal advertising on page 121

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Materials and Labor Bids on Sewage Treatment Plant—Alliance, Ohio

Bids were opened by Board of Control, Sept. 20, (lowest three) for constructing sewage disposal plant, from (A) Walter E. Sexton, Mineola, N. Y., (awarded contract); (B) Bierd, Lydon & Grandpre, Inc., Chicago; (C) Hoch Contracting Co., Allentown, Pa. The unit bids are as follows:

	A			B			C		
	Material	Labor	Material and Labor	Material	Labor	Material and Labor	Material	Labor	Material and Labor
Engineer s office (lump sum)	$1,900.00	$1,800.00	$3,700.00	$500.00	$300.00	$800.00	$800.00	$700.00	$1,500.00
50 lin.ft. 10 in. well casing	4.00	......	4.00	3.75	2.25	6.00	.65	.35	1.00
10 lin.ft. drilling well in rock	......	20.00	20.00	......	6.60	6.60	1.00	5.00	6.00
50 lin.ft. drilling well not in rock	......	12.00	12.00	......	7.25	7.25	1.00	3.25	4.25
Well screen (lump sum)	120.00	50.00	170.00	250.00	100.00	350.00	140.00	10.00	150.00
56,700 cu.yd. earth excavation—Class A	......	.70	.70	......	.40	.40	.10	.90	1.00
10,500 cu.yd. earth excav.—Class B	......	.70	.70	......	.75	.75	.20	.90	1.10
100 cu.yd. rock excav.	......	4.00	4.00	......	5.00	5.00	1.00	3.00	4.00
7,840 cu.yd. conc—Class A	11.00	5.50	16.50	8.80	5.20	14.00	10.00	6.50	16.50
530 cu.yd. conc—Class B	13.50	6.50	20.00	10.00	15.00	25.00	10.00	12.00	22.00
50 bbl. additional portland cement	2.60	......	2.60	3.00	.50	3.50	2.50	.50	3.00
400 lin.ft. expansion joints	.45	.30	.75	1.00	.25	1.25	.50	.10	.60
380 ton steel reinforcement	72.00	16.00	88.00	62.50	19.00	81.50	50.00	25.00	75.00
110 ton bell and spigot cast iron pipe	45.00	30.00	75.00	51.50	27.30	78.80	42.00	20.00	62.00
15 ton flanged cast iron pipe	65.00	40.00	105.00	73.50	32.80	106.30	70.00	20.00	90.00
15 ton bell and spigot standard fittings	100.00	50.00	150.00	134.50	33.40	167.90	98.00	25.00	123.00
5 ton flanged standard fittings	145.00	75.00	220.00	111.00	29.80	140.80	145.00	25.00	170.00
18 ton special fittings	145.00	75.00	220.00	216.00	29.00	245.00	165.00	30.00	195.00
100 ton universal cast iron pipe	55.00	20.00	75.00	64.50	38.50	103.00	60.00	20.00	80.00
6 ton universal cast iron pipe fittings	130.00	20.00	150.00	180.00	38.50	218.50	170.00	20.00	190.00
300 lin.ft. 1 in. or smaller galvanized iron pipe	.20	.10	.30	.20	.08	.28	.20	.15	.35
800 lin.ft. 1½ in.	.30	.15	.45	.44	.10	.54	.30	.20	.50
1,200 lin.ft. 2 in.	.45	.20	.65	.62	.20	.82	.40	.30	.70
1,000 lin.ft. 2½ in.	.55	.20	.75	1.03	.32	1.35	.60	.25	.85
1,300 lin.ft. 3 in.	.75	.25	1.00	1.30	.32	1.62	.75	.25	1.00
25—1 in. or smaller, gate valves	1.50	1.00	2.50	1.37	.13	1.50	1.35	.50	1.85
15—1½ in.	2.60	1.00	3.60	2.45	.12	2.57	2.30	.75	3.05
55—2 in.	6.60	1.40	8.00	6.35	.18	6.53	6.00	1.00	7.00
5—2½ in.	6.60	1.40	8.00	6.35	.24	6.59	6.00	1.00	7.00
10—3 in.	7.25	1.75	9.00	7.75	.58	8.33	6.50	1.50	8.00
44—4 in.	14.20	2.50	16.70	12.90	1.45	14.35	12.25	1.60	13.85
3—6 in.	25.60	3.00	28.60	25.50	2.92	28.42	22.00	2.50	24.50
66—8 in.	41.00	4.00	45.00	39.20	3.50	42.70	35.50	5.00	40.50
3—10 in.	34.00	6.00	60.00	53.25	4.67	57.92	46.00	7.50	53.50
2—24 in.	312.00	20.00	332.00	261.00	23.30	284.30	260.00	30.00	290.00
4—6 in. sluice gates	70.00	5.00	75.00	32.40	2.45	34.85	68.00	6.00	74.00
4—8 in.	85.00	10.00	95.00	47.60	2.85	50.45	85.00	10.00	95.00
9—12 in.	105.00	15.00	120.00	62.00	5.55	67.55	110.00	14.00	124.00
2— 9—24 in. circular sluice gates	200.00	25.00	225.00	245.00	15.20	260.20	190.00	30.00	220.00
2—24 in. x 24 in. sluice gates	200.00	25.00	225.00	237.00	13.50	250.50	185.00	30.00	215.00
1—30 in. circular sluice gate	265.00	30.00	295.00	330.00	17.00	347.00	250.00	40.00	290.00
10—adjustable valve boxes and covers	5.00	2.00	7.00	6.40	1.50	7.90	8.25	1.00	9.25
12—floor stands	65.00	5.00	70.00	65.25	3.90	69.15	74.00	8.00	82.00
100 lin.ft. iron pipe railing, Type A	1.35	.40	1.75	1.57	.46	2.03	1.00	.50	1.50
350 lin.ft. iron pipe railing, Type B	1.50	.50	2.00	1.65	.53	2.18	2.00	.50	2.50
3,400 lin.ft. 6 in. or smaller, vit. pipe	.13	.10	.23	.10	.52	.62	.10	.20	.30
100 lin.ft. 8 in.	.19	.15	.34	.17	.63	.80	.16	.20	.36
300 lin.ft. 10 in.	.25	.16	.41	.20	.70	.90	.22	.28	.50
450 lin.ft. 24 in.	1.75	.50	2.25	1.68	.92	2.60	1.60	.80	2.40
Per cent discount, vitrified pipe special	50%	....	50%	....	....	65%	....	....	70%
2,500 lin.ft. 4 in. agricultural drain tile	.05	.05	.10	.05	.10	.15	.08	.22	.30
100 lin.ft. 6 in. agricultural drain tile	.09	.09	.18	.09	.17	.26	.10	.25	.35
25,000 lb. miscellaneous cast iron work	.07	.01	.08	.07	.03	.10	.07	.03	.10
20,000 lb. miscellaneous wrought iron and steel work	.07	.03	.10	.09	.03	.12	.12	.03	.15
5 M. ft. B.M. miscellaneous wood work	80.00	20.00	100.00	160.00	40.00	200.00	110.00	40.00	150.00
Buildings (lump sum)	27,500.00	9,200.00	36,700.00	27,777.00	9,650.00	37,427.00	30,000.00	10,000.00	40,000.00
Steam heating equipment (lump sum)	3,200.00	1,000.00	4,200.00	3,600.00	1,300.00	4,900.00	2,500.00	1,500.00	4,000.00
Electric wiring (lump sum)	4,000.00	3,200.00	7,200.00	4,400.00	2,000.00	6,400.00	5,500.00	2,500.00	8,000.00
Plumbing (lump sum)	1,900.00	1,000.00	2,900.00	1,700.00	1,400.00	3,100.00	2,200.00	800.00	3,000.00
Industrial equipment (lump sum)	2,000.00	315.00	2,315.00	2,500.00	510.00	3,010.00	2,500.00	1,000.00	3,500.00
Venturi meter equipment (lump sum)	1,450.00	200.00	1,650.00	2,000.00	138.00	2,138.00	1,920.00	200.00	2,120.00
Filter dosing equipment (lump sum)	5,430.00	150.00	5,580.00	7,500.00	400.00	7,900.00	6,400.00	1,000.00	7,400.00
Sludge ejector and piping (lump sum)	1,450.00	200.00	1,650.00	1,775.00	245.00	2,020.00	1,300.00	250.00	1,550.00
Pumping equipment (lump sum)	9,600.00	650.00	10,250.00	10,420.00	1,580.00	12,000.00	11,500.00	2,500.00	14,000.00
Sludge removal equipment (lump sum)	11,200.00	1,300.00	12,500.00	13,100.00	1,650.00	14,750.00	10,900.00	1,500.00	12,400.00
10 sq.ft. vault lights (fixed)	1.75	1.25	3.00	6.00	2.00	8.00	5.00	1.00	6.00
180 sq.ft. vault lights (hinged)	5.30	1.70	7.00	8.00	3.00	11.00	5.00	1.00	6.00
20,400 cu.yd. filtering material	2.70	.30	3.00	3.25	1.00	4.25	2.50	1.30	3.80
6,125 sq.yd. trickling filter floor system	2.60	.70	3.30	3.25	2.10	5.35	2.80	.30	3.10
288 filter nozzles	2.05	.55	2.60	2.00	.25	2.25	2.00	.50	2.50
12,270 sq.ft. sludge bed covering	1.10	.20	1.30	1.00	.60	1.60	1.38	.20	1.58
500 cu.yd. sand for sludge beds	2.35	.30	2.65	2.45	1.00	3.45	3.00	.50	3.50
80 cu.yd. gravel for sludge beds	2.35	.30	2.65	2.60	1.00	3.60	3.00	.50	3.50
1,500 sq.yd. special tamping	......	.15	.15	......	.30	.30	.01	.14	.15
Painting (lump sum)	1,500.00	1,000.00	2,500.00	800.00	1,200.00	2,000.00	3,000.00	2,000.00	5,000.00

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(Concluded on page 68)

UNIT PRICES *Continued on page 270a*

VULCANITE SUPER CEMENT

Resists the Action of SULPHATE and ALKALINE WATERS

Vulcanite Super Cement is a more efficient form of Portland Cement in which a portion of the gypsum, ordinarily used to regulate the set, is treated with a catalytic agent.

This treated gypsum, when ground with the regular run of VULCANITE Portland Cement clinker, produces VULCANITE Super Cement. The rate of hardening is not accelerated; there is no change effected in color or setting time. VULCANITE Super Cement meets all the physical and chemical test requirements of the standard specifications for Portland Cement of the American Society for Testing Materials.

It produces a dense homogeneous concrete which is permanently waterproof, oilproof, and resistant to sulphate and alkaline waters.

No waterproofing compounds are necessary.

VULCANITE
94 LBS. NET
Waterproof
PATENTED
SUPER CEMENT
TRADE MARK REG.
Absolutely
VULCANITE PORTLAND CEMENT CO.
PHILADELPHIA · BOSTON · NEW YORK
VULCANITE

Permanently Waterproof and Oilproof

H. E. Brookby, Development Engineer of the United States Gypsum Company, in an address before a group of engineers in Detroit, Mich., September 28, 1927 stated:

"The rapid deterioration of Portland Cement Concrete in alkaline sulphate waters seriously handicaps concrete in underground work where such waters are encountered. In wet gypsum mines, ordinary concrete seldom lasts over 18 months.

"The concrete must not only be impervious to water, but also must not appreciably absorb and condense within itself moisture or water vapor from the humid mine atmosphere, for in this moisture absorption carbon dioxide and hydrogen sulphide must also be absorbed and then the chemical reactions follow.

"With us, so far, Super Cement has met these severe conditions and Super Cement Concrete is *in place after four years,* where had it been only ordinary concrete, its life would have been under *two* years. . . . . "We feel we have been warranted in making Super Cement Concrete standard concrete for the 'wet gypsum mine' concrete work of our company."

Use for

Coal Mines
Sewage Disposal Plants
Sea Water Construction
Gypsum Mines
Paper Mills

WRITE FOR A COPY OF THIS COMPLETE ADDRESS

Vulcanite Portland Cement Co.

ESTABLISHED 1894

Philadelphia Boston New York

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Sewage Treatment Plant (Continued)

1,300 sq.yd. roadway, Type A	$1.30	$.70	$2.00	$1.10	$.90	$2.00	$1.50	$.50	$2.00
2,260 sq.yd. roadway, Type B	.70	.35	1.05	.75	.45	1.20	1.00	.50	1.50
750 sq.yd. walks	.20	.10	.30	.70	.55	1.25	.20	.70	.90
3,000 cu.yd. loam	......	.30	.30	......	1.00	1.00	.10	.90	1.00
1,000 sq.yd. sodding	.07	.03	.10	.50	.50	1.00	.35	.65	1.00
9 acres seeding	10.00	5.00	15.00	35.00	65.00	100.00	9.10	11.90	21.00
6,000 lin.ft. fencing	.10	.03	.13	.13	.07	.20	.09	.07	.16
6 hydrants	25.00	5.00	30.00	39.00	6.50	45.50	60.00	20.00	80.00
1,200 sq.ft. steel floor grating	1.00	.20	1.20	1.50	.50	2.00	.70	.30	1.00
Control gates (lump sum)	450.00	50.00	500.00	375.00	75.00	450.00	900.00	150.00	1,050.00
Plunger pump (lump sum)	1,860.00	140.00	2,000.00	2,200.00	280.00	2,480.00	1,850.00	100.00	1,950.00
Centrifugal pump (lump sum)	850.00	100.00	950.00	1,350.00	280.00	1,530.00	650.00	100.00	750.00
Totals— Using plunger pump			$473,152			$500,691			$525,618
Totals— Using centrifugal pump			$472,102			$499,741			$524,418

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Track Laying—San Francisco, Calif.

Bids were opened by Board of Public Works, Sept. 28, for laying track along Judah Street, Sunset Line of Municipal Railway System, from (A) Eaton & Smith, 715 Ocean Ave., (awarded contract); (B) Federal Paving Co., Call Bldg.; (C) Municipal Improvement Co., 1723 Webster St. The unit bids are as follows:

	A	B	C
15,400 lin.ft. double track girder rail constr. and excav. paved area	$6.45	$6.00	$6.32
260 lin.ft. double track girder rail constr. and excav. paved area	6.70	6.00	6.00
4,640 lin.ft. double track T rail constr. in unpaved area	5.00	6.00	8.25
100 lin.ft. single track girder rail constr. in paved area	3.00	3.00	5.00
1 special track layout— Market and Duboce Sts	1,000.00	1,200.00	2,380.00
1 special track layout— Duboce and Church Sts	730.00	600.00	420.00
1 special track layout— Duboce and Fillmore Sts	730.00	600.00	420.00
1 special track layout— Carl and Cole Sts	730.00	600.00	420.00
1 special track layout— Carl and Stanyan Sts	1,000.00	600.00	750.00
1 double track over double track girder, Judah St. and 20th Ave.	610.00	600.00	220.00
1 standard right-hand girder turn-out	210.00	600.00	220.00
3 standard girder rail cross-overs	425.00	600.00	180.00
2 pit-guards at tunnel approaches	360.00	180.00	150.00
17 standard manholes	150.00	105.00	200.00
8 special manholes	250.00	125.00	250.00
56,000 duct.ft. underground duct line	.20	.32	.13
500 duct.ft. lateral underground duct line	.50	.32	.90
100 lin.ft. creosoted wooden conduit	.50	.32	.90
5 ground boxes for electric track switches	20.00	5.00	20.00
250 lin.ft. galv. iron conduit	.50	.70	1.00
400 lin.ft. 4in. vit. pipe sewer drains	1.00	.30	1.00
2,850 cu.yd. excav. for manholes	1.40	2.25	1.25
31,400 sq.ft. conc. stringers	.50	.40	.96
306,000 sq.ft. asph. conc. pavement	.24	.26	.227
15,000 sq.ft. asph. conc. conform pavement	.12	.14	.10
8,000 sq.ft. conc. base for conc. pavement	.25	.20	.15
20,500 sq.ft. art. stone sidewalks	.15	.13	.14
Totals	$248,267	$255,182	$266,065

Engineering News-Record, Issue of November 24, 1927.

Paving—Niles Center, Ill.

Bids were opened by City, May 3, for paving streets in Devonshire Manor, from (A) Arcola Construction Co., Evanston, (awarded contract); (B) W. A. Black, 565 West Washington Blvd., Chicago; (C) Krenn & Dato, 936 North Michigan Ave., Chicago. The unit bids are as follows:

	A	B	C
31,500 cu.yd. grading	$0.49	$0.70	$0.90
41,900 lin.ft. curb and gutter	.85	.90	.90
71,126 sq.yd. paving	2.21	2.30	2.46
144 inlets	23.50	20.00	30.00
36,604 lin.ft. exp. felt	.10	.12	.15
1,664 lin.ft. protection plate	.15	.20	.15
5,820 lin.ft. 8-in. vitr. pipe	.68	.90	1.00
47 manholes	6.00	5.00	8.00
44 catch basins	8.00	10.00	8.00
17,652 sq.yd. rein. mesh	.35	.30	.40
53,474 sq.yd. rein. mesh	.24	.20	.28
880 lin.ft. 8-in. vitr. pipe	1.00	.90	1.00
52,375 ft. ¾-in. round dowels	.04¾	.08	.0525
8,424 lin.ft. 1-in. slip dowels	.06	.10	.045
20 catch basins	72.00	80.00	72.00
25,271 ft. round dowels	.05	.08	.0525
12,000 sq.ft. walkaprons	.23	.30	.27
Totals	$248,346	$267,104	$290,530

Engineering News-Record, Issue of November 24, 1927.

Sewers—Elmhurst, Ill.

Bids were opened by City, May 2, (lowest three) for installing sewers, from (A) Gjellefald Construction Co., Forest City, Ia., (awarded contract); (B) Krenn & Dato, 936 North Michigan Ave., Chicago; (C) N. Santucci, Niles Center. The unit bids are as follows:

	A	B	C
3,455 lin.ft. 54-in. sewer	$15.00	$15.00	$14.60
1,505 ft. 48-in.	12.00	12.60	12.00
1,345 ft. 42-in.	10.00	11.20	11.20
2,000 ft. 36-in.	9.00	8.60	9.60
365 ft. 27 in.	5.00	4.70	7.20
1,830 ft. 21 in.	3.00	2.50	6.00
1,545 ft. 18-in.	2.00	1.90	2.18
2,525 ft. 15-in.	1.75	1.50	1.55
14,020 ft. 12-in.	1.25	1.00	1.20
330 ft. 8-in.	1.00	.70	1.00
88 small manholes	70.00	68.00	70.00
28 large manholes	80.00	62.00	80.00
118 catch basins	70.00	82.00	90.00
350 18-ft. drains	16.00	15.00	16.20
20 25-ft. drains	20.00	20.00	22.50
350-yd. conc.	15.00	15.00	14.00
1 outlet abutment	200.00	250.00	1,250.00
Totals	$162,340	$159,043	$173,302

Engineering News-Record, Issue of November 24, 1927.

Constr. News page 270a

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Offices, Toronto, Ont., King-Adelaide Holding Corp. having plans prepared three buildings, $30,000,000.

Power plants, New York, N. Y., New York Edison Co. having plans prepared addition, $8,550,000.

Theatre, hotel and store, San Francisco, Calif., M. & L. Graf having plans prepared, $5,000,000.

Office commercial and manufacturing, Boston, Mass., Atlantic Building Trust having plans prepared, $4,000,000.

Apartment, Chicago, Ill., Marshall Field Estate having preliminary plans prepared, $4,000,000.

Bus terminal, Phila., Pa., Delaware Bridge Bus Assn. plans, $3,000,000.

Irrigation project, Texas, Trinity Farms Co., Waxahachie, making preliminary plans, $3,000,000.

High schools, Brooklyn, N. Y., Bd. Educ. having plans prepared, $2,584,000.

Bridge, Arkansas City, Ark., E. M. Elliott & associates, Chicago, making preliminary plans, $2,500,000.

Plant, Ft. Worth, Tex., Montgomery Ward & Co. soon takes bids, $2,000,000.

Assembly hall and hotel, New York, N. Y., Salvation Army had preliminary sketches made, $2,000,000.

Apartment, New York, N. Y., J. H. Carpenter having plans prepared, $2,000,000.

Office and garage, Toronto, Ont., D. E. Bennett having plans prepared, $2,000,000.

Hospital, Youngstown, O., Youngstown Hospital Assn. takes bids in spring, $1,500,000.

College, Hamilton, Ont., McMaster University Bd. plans college buildings, $1,500,000.

Seminary, Huntington, N. Y., Catholic Dioceses of Brooklyn had plans prepared, $1,500,000.

Bids Desired

Apartment, Chicago, Ill., W. C. Bannerman & Co. taking bids, $2,000,000.

Distributing plant, Richmond, Calif., F. R. Seaver, taking bids, $1,500,000.

Apartment, Chicago, Ill., M. L. Bein, archt. taking bids, $1,000,000.

Contracts Awarded

Gas pipe line, Louisiana, Arkansas, Missouri, Moody & Seagraves Co. will build with company forces, $20,000,000.

Gas pipe line, Texas, New Mexico, and Colorado; Canada River Gas Co. to Ford, Bacon & Davis, Inc., New York City; also Colorado Inter-State Gas Co. to Ford, Bacon & Davis, Total cost, $16,000,000.

Railways, Missouri, St. Louis & San Francisco R.R. Co. will lay rails by day labor, $3,000,000.

Club house, Detroit, Mich., Embassy Club to C. S. Barry Co. Archts. est. $2,000,000.

Hotel, theatre and apartments, Los Angeles, Calif., J. H. Miller, owner, builder, and archt., will build, $1,825,000.

College, Bronxville, N. Y., Sarah Lawrence College, to Cuzzie Bros., Mt. Vernon. Archts. est. $1,250,000.

Y. W. C. A. Building, Chicago, Ill., Berlin & Swern, archts., to R. F. Wilson Co. Archts. est. $1,000,000.

Paperboard mill, Toronto, Ont., Canadian Paperboard Co., Montreal, to W. J. Trimble. Engrs. est. $1,000,000.

News of the Week

Waterworks

Proposed Work

Tenn., Petersburg—Voted $25,000 bonds, waterworks. Address Mayor.

O., Portsmouth—Water Dept. plans new reservoir supply main and connection from near intake crib to present intake. C. S. Stevenson, city engr.

Ind., Evansville—Bd. Wks., J. C. Males, secy., City Hall, made plans water-works improvements, incl. 20,000 gal. reservoir, pumping station extension, new machinery and electrification pumping apparatus, $1,195,000. Black & Veach, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted Sept. 15.

Mich., Marine City—Plans new water supply, incl. filtration plant, pump house and electrically driven pump. $100,000. Engineer not selected. A. Friederichs, mayor.

Tex., Del Rio — H. B. Jones, Del Rio, purchased plant from East Side Water Co., and plans improving same, incl. new mains, pumping equipment, etc. $30,000 or more.

Wash., Olympia—City Council plans well waterworks. $248,026. C. Signer, city engr.

Wash., Port Townsend—See "Bids Desired."

Calif., Dorris—Making plans 150 water meters and 2- to 6-in. mains in various streets. J. F. Mackey, Mt. Shasta, engr.

Calif., Redwood City—E. M. Kneese, clk. San Mateo Co., takes bids about Dec. 12, 8,550 ft. 2 in. galvanized and 24,190 ft. 4- to 6-in. riveted, Matheson Joint, welded steel or c.i. waterworks, for Ravenswood Water Dist. G. A. Kneese, Courthouse, engr.

Calif., Southgate—See "Sewers."

Ont., Ottawa — Bd. Control instructed Com. Wks. to obtain estimate costs on obtaining water from McGregor Lakes on Quebec side Ottawa River, also mechanical filtration of Ottawa River. A. F. Macallum, City Hall, engr.

Ont., Sarnia — Council plans 12 in. or larger mains with valves, fittings, etc., in connection with waterworks pumping plant. $150,000. W. B. Beatty, City Hall, engr.

Bids Desired

N. Y., Albany—Dec. 5, by Bd. Contr. & Supply, City Hall, foundations and intake for new pumps and building, for Bureau of Water.

N. Y., Brooklyn—Dec. 9, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Eastern Parkway, Gatling and Kenmore Pls., Avenues T and Y, Autumn, Narrows, 20th and 26th Aves., Hancock, Hubbard, Hendricks Sts., etc., here.

N. Y., New York—Dec. 6, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Boston, Gun Hill, Hunts Point and White Plains Rds., Adee, Arnow, Barrett, Brinsmade, Cedar, Dudley and Duryea Aves., Home, East 172nd, East 228th, West 178th Sts., etc.; also transformer shed at Shafts, Pumping Station, Bronx Boro.

> *THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.*
>
> *Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.*

Pa., Phila.—Dec. 6, by Dept. Pub. Wks., Bureau of Water, 300 single nozzle fire hydrants, Contr. 907; also 30 in. pipe, and connections at Belmont Filters, Contr. 908. G. H. Biles, dir.

Va., Colonial Heights (Petersburg P. O.) —Dec. 6, by Town, C. W. Moorman, clk., waterworks, incl. 21,099 ft. 4- to 12-in. c.i. pipe, 15.4 tons c.i. specials, 52 fire hydrants, etc. J. B. McCrary Eng. Corp., Citizens & Southern Bank Bldg., Atlanta, Ga., engrs.

N. C., Asheville — Dec. 5, by Trustees Beaver Dam Water & Sewer Dist., at office Howerton Eng. Co., engrs., 410 New Medical Bldg., water distribution system; adv. E. N.-R. Dec. 1.

Mich., Vassar—Dec. 15, by G. F. Childs, village clk., trenching and laying 6 and 18 in. c.i. mains, etc., in vicinity road designated M-079-20. $15,000.

Okla., Talihina—Dec. 5, by E. T. Nelson, town clk., improving waterworks, incl. concrete dam, 2,500 cu.yd. excav., 7,500 cu.yd. earth work, 14,000 ft. 6 in. c.i. mains, etc. $50,000-$60,000. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs. Nov. 24.

Wash., Port Townsend—Dec. 15, by City Council, 12 mi. 30 in. wood or steel pipe line; and takes bids about Jan. 24, remaining 20 mi., pipe line $800,000. Barr & Cunningham, Spaulding Bldg., Portland, Ore., engrs. Noted Sept. 22.

Calif., Manhattan Beach (Manhattan P. O.)—Dec. 15, by City Clerk, 2,250 ft. 4 in. Class "B" c.i. pipe, two 4 in. c.i. tees, three 4 in. c.i. gate valves (150 lb. working pressure), four 4 in. fire hydrants, and 1,000 lb. caulking lead.

Ont., Alexandria—Dec. 15, by D. A. McDonald, town supt., completely equipped deep well or wells sufficient to supply 250,000 imp. gal. water per day. $25,000.

Ont., Hamilton—Dec. 7, by F. F. Treleaven, mayor, City Hall, one 7 ft. 6 in. diam. x 150 ft. high radial perforated brick chimney, one 400 hp. hand fired horizontal tube steam boiler in connection with Beach Waterworks Pumping Station. $25,000-$35,000. W. L. McFaul, City Hall, engr.

Contracts Awarded

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Bailey, Baychester, Betts, Castle Hill Aves., etc., to Knight & DeMicco, 448 East Tremont Ave., $14,430. Noted Nov. 10.

N. J., Skillman—C. N. Leathem, archt., State Bldg., Trenton, 250,000 gal. water tower for Skillman Epileptic Village, here, to Petroleum Iron Wks., 25 West 43rd St., New York City, for Institutions and Agencies, Trenton, $19,140. Noted Oct. 13.

Ky., Ashland — Water Comr., 1 m.g. rein.-con. reservoir, etc., to Hatfield Constr. Co., Huntington, W. Va., $24,485. Noted Oct. 13.

Mich., Royal Oak (Ind. br. Detroit)—City, R. J. Whitney, mgr., foundation for 1½ m.g. concrete storage tank, Woodward Ave., in connection with Detroit water supply, to N. A. Star, Royal Oak. Engrs. est. $15,000. Noted Nov. 17.

Minn., St. Paul—A. E. Eggert, city purch. agt., water tower, 133 ft. high, 36 ft. diam., rein.-con. and brick, 200,000 gal. capacity,

See proposal advertising on page 134

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Even under the most rigorous conditions of service Leadite proves its efficiency

—where a line is subjected to constant vibration the joints must be tight and remain tight

IN installing the 12" bell and spigot bridge line illustrated here the element of constant vibration was a serious consideration.

Leadite was used for jointing and has given perfect satisfaction throughout the 5½ years since this Bridge Line was installed—working pressure approximately 105 lbs. per sq. in.

This water department has laid many miles of cast iron water mains with Leadite joints—sizes 6" to 30"—pressures ranging from 40 pounds to 170 pounds per square inch. They say their experience with Leadite has been extremely satisfactory. Their experience with Leadite extends over 20 years.

The ease with which Leadite can be used is another consideration with waterworks engineers in making their specifications for unusual and difficult installations, as well as for general work.

The speed of jointing with Leadite is of great importance to Contractors in helping them complete their work promptly. From experience they know how much time they can save by using Leadite.

Everywhere waterworks engineers specify and use Leadite for the satisfaction it gives, its safety, security and economy.

Twelve-inch c. i. bell and spigot water main —Bridge Line—over 500 feet long—subject to severe vibration—carrying approximately 105 lbs. pressure per square inch.

Specify and use
LEADITE
It saves at least 75%

Be sure it is
LEADITE
and accept no imitations

The pioneer self-caulking material for c. i. pipe. Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

in Highland Park, to Feyen Constr. Co., 277 Burgess St., and W. Selby, 85 West Magnolia St., $69,343. Noted Oct. 27.

Colo., Pueblo—D. P. Porter, engr. and supt. Trustees Pueblo Water Works, 319 West 4th St., to Colorado Culvert & Flume Co., c/o J. P. Sanderson, 300 East 8th St., and Arthur & Allen, c/o Arthur Allen, 3rd and Court Sts., 7,840 lin.ft. 42 in. flow line from settling reservoirs to North Side Pumping Station, redwood stove pipe, $50,473; to Arthur & Allen, excavating and backfilling, $8,545; also Trustees Pueblo Water Works, c/o D. P. Porter, supt., owners of project, will install 75 ft. 42 in. steel pipe as specified under railroad tracks, $1,500. Grand total $60,518. Noted Nov. 10.

Calif., Los Angeles—City Water & Power Comn., to Pacific States Cast Iron Pipe Co., Subway Terminal Bldg., 10,000 ft. 6 in. c.i. Class "B" San Pedro, at $0.56 per ft., 80,000 ft. Aqua Siding $0.58, and 160,000 Hewitt St. Spur $0.56, etc.; also to Grinnell Co. of the Pacific, 520 Mateo St., 60,00 ft. 6 in. bell and spigot pipe at $55 58 per C. ft.

Calif., San Francisco—Extending high pressure system, to C. B. Eaton, 715 Ocean Ave., $37,778.

B. C., Vancouver—E. A. Cleveland, engr., 500 Beatty St., 8,400 ft. 20- to 32-in. ⅜ in. lap welded, etc., to Teith, Murray & Co. Ltd., 510 Hastings St. W., $45,618. Noted Oct. 20.

Sewers

Proposed Work

N. Y., Syracuse—Plans sewer in Oswego Thorofare between James and Beldon Aves. N. F. Pitts, Jr., City Hall, engr.

O., Kenmore — Barstow & McCurdy, engrs., Ohio Bldg., Akron, take bids about Jan. 1, 4,000 ft. 39- to 42-in. rein.-con., vitr. clay or segmental block main outfall sewer connecting present sewerage system with proposed sewage disposal plant, here, for City. $100,000.

Mo., Springfield—Making plans approximately 15,000 ft. 18 and 24 in. vitr. clay outfall sewers in various streets. $60,000. Russell & Axon, 408 McDaniel Bldg., engrs.

Ark., Gentry—Plans sewerage system. $30,000. Engineer not selected.

Ark., Hamburg — Making preliminary plans sewerage system. $80,000.

Ark., Mulberry—See "Waterworks."

Tex., Brownsville—Making plans sewer filtration plant. $25,000. Address F. H. Williams, supt. Pub. Wks.

Tex., Carrizo Springs — Voted $38,000 bonds, sewerage system. Address B. L. Jeffrey, mayor.

Okla., Altus—Making plans 17,900 ft. 8 and 18 in. vtir. clay sewers in Russell Addition. $25,000. J. C. Chisum, Altus, engr.

Okla., Amber—Made preliminary plans 4 mi. sewers in all streets. $27,000. C. Riggins, Anadarko, engr.

Okla., Hastings—Made preliminary plans sewerage system. $30,000. Engineer not selected.

Okla., Mooreland—Making plans 4 mi. sewerage system. $25,000. E. A. Jones, Enid, engr.

Okla., Mt. Park—Made preliminary plans 4 mi. sewerage system. $25,000. Engineer not selected.

Calif., Santa Ana—Made plans 1,777 ft. 16 and 20 in. rein.-con., 3,500 ft. 16 and 20 in. concrete, and 11,931 ft. 6 in. vitr. or concrete sewers in South Main and South Bway. Sts., etc.

Calif., Southgate—Made plans 277,968 ft. 6- to 21-in. cement and 2,376 ft. 12 and 15 in. vitr. sewers, 186,586 ft. 2- to 12-in. Class "B" c.i. mains and 48,560 ft. 1- to 2-in. copper pipe water services, etc. in various sections city. E. M. Lynch, Central Bldg., Los Angeles, engr. Noted Sept. 15.

Ont., Toronto—York Twp. plans 4 in. and up vitr. tile sewers in Bramley Grove, Longmuir Pl., Rushton Rd., Florence Crescent, Avalon and Schell Aves., also private connections in Bernice Crescent and Silverthorn Ave. $25,000-$30,000. F. B. Goedike, 40 Jarvis St., engr.

Bids Desired

Mass., Boston — Dec. 2, by Dept. Pub. Wks., sewerage works, concrete conduit in Davenport Brook, Dorchester. $25,000. J. H. Sullivan, comr.

Fla., Avon Park—Dec. 19, by City Council, City Hall, 3.5 mi. 6- to 15-in. sanitary sewers, 1.5 mi. 10 in. c.i. force main, sewage pumping station and disposal plant. E. P. Lacey, city engr. Wiedeman & Singleton, 1404 Candler Bldg., Atlanta, Ga., engrs.; adv. E. N.-R. Dec. 1.

La., New Orleans—Jan. 23, by Sewerage & Water Bd., at office A. G. Moffat, secy., 526 Carondelet St., pumps and check valves for River Pumping Station. G. G. Earl, genl. supt.; adv. E. N.-R. Dec. 1.

La., Vivian—Dec. 6, by Mayor, complete sewerage system. $80,000. C. D. Evans, Levy Bldg., Shreveport, consult. engr. Noted Feb. 17.

Wash., Port Angeles—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Contracts Awarded

W. Va., Huntington—For 2 ring brick sewers, etc. in 13th St., to S. R. Bishop & Co., Huntington, $36,645.

O., Akron—W. F. Peters, dir. Pub. Serv., 200 ft. 8- to 24-in. and 3,130 ft. 30- to 66-in. segmental block sewer in Mull Ave., also 2,600 ft. 36- to 54-in. segmental block sewer in West Tallmadge Ave., to F. Basile, 121 North Walnut St.,. $35,319 and $40,416 respectively. Engrs. est. $52,000 and $53,000 respectively. Noted Sept. 29.

O., Akron—W. F. Peters, dir. Pub. Serv., Cuyahoga River Outfall Sewer, 8,340 ft. 90 x 140 in. brick pipe, to T. E. McShaffrey Constr. Co., 173 South Forge St., $581,234. Engrs. est. $719,500. Noted Oct. 20.

O., Cincinnati — Brick sewer in ravine from sewer west of Stettimius Ave. to Duck Creek Sewer, to R. F. Runck, 1411 1st Natl. Bank, $21,228. Engrs. est. $25,000.

O., Cincinnati—C. O. Sherrill, city mgr., City Hall, 1,280 ft. 30 in. brick sewer in ravine south of Yoast St., to J. J. Welling, 2943 Lischer Ave., $24,150. Engrs. est. $32,550. Noted Oct. 13.

Mich., Ann Arbor—Washtenaw Co., extending Pittsfield-Ann Arbor Drain, 857 ft. monolithic concrete cylinder, 17 ft. diam., to R. A. Mercier, 5435 Wesson Ave., Detroit, $55,000.

Mich., Grosse Ile — G. A. Dingeman, County Bldg., Detroit, constructing Grosse Ile Drain 2, 10,072 ft. 12- to 42-in. covered tile drain, brick and concrete manholes, septic tank, etc., here, to T. D. Nolan, 14101 Plymouth Ave., Detroit, for Wayne Co. (Detroit). $30,593.

Ill., Chicago — Bd. Local Impvts., Room 207, City Hall, tile sewers with brick manholes in sections East and West 22nd St., to C. Fosco, 908 South Irving Ave.; tile sewers with brick manholes and brick catch basins in portion West 19th St., to G. Anderson, Chicago, in portion Archer Ave., to E. Till, 5475 Hirsch St., and in portion Ewing Ave., to F. Peyrot, 4207 Marmora Ave. Noted Nov. 10.

Wis., Lake (St. Francis P. O.)—Sewers in Plainfield, Oklahoma, Howard Aves., et al., to Wenzel & Henoch Co., 498 27th St., Milwaukee, $32,837.

Ark., Corning — Comrs. Sewer Impvt. Dist. 1, 23,000 ft. 8- to 15-in. vitr. clay pipe, 25 each manholes and lamp holes, 10 flush tanks, etc., to Rowan & Rickard, 6 Natural Gas Bldg., Pine Bluff, $20,746. Noted Nov. 17.

Tex., Houston—Sewers in Shepherd Dr., South Blvd. and South Reinerman and other streets, to Dellone Constr. Co., Magnolia Bldg., Dallas, $284,678. Noted Sept. 15.

Tex., Houston—City, c/o O. F. Holcomb, mayor, sewers in Shepherd Dr. from Westheimer road to Buffalo Bayou, to Tellepsen Constr. Co., 3900 Clay Ave., $121,629. Engrs. est. $175,000. Noted Nov. 24.

Tex., Pampa—City, c/o Secretary, approximately 15 mi. sewers in various streets and disposal plant, etc., to Jordan Constr. Co., Plainview, $100,000. Noted Aug. 4.

Ont., Toronto—Rein.-con. activated sludge sewage disposal plant in connection with North Toronto Sewerage System, to Kilmer & Barber, 10 Adelaide St. E., $498,724.

Ont., Toronto—York Twp., laying 2,000 ft. 33 in. concrete sewer in various streets, to McNamara Constr. Co., 53 Yonge St., $35,443.

Bridges

Proposed Work

Miss., Vicksburg — Vicksburg Bridge & Terminal Co., c/o H. E. Bovey, pres., 1263 Agnes Pl., Memphis, Tenn., takes bids about Dec. 1, bridge over Mississippi River, here, Contr. 1, substructure for main bridge and east approach, 48,000 cu.yd. excav., etc., Contr. 2, superstructure for main bridge and east approach, 10,000 tons steel, etc., Contr. 3, substructure for west approach, 5,000 cu.yd. concrete, etc., Contr. 4, superstructure for west approach, 2,600 tons carbon steel, Contr. 5, west approach earthwork, 550,000 cu.yd. excav., etc., Contr. 6, east approach earth work, 48,000 cu.yd. excav., 37,000 cu.yd. railroad fill, also 200 ft. railroad tunnel. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs. Noted Apr. 21.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about Dec. 15, 3 rein.-con. bridges between Jackson and Henderson, Chester Co.; also concrete and steel bridge over Clinch River, on State Rd. 66, Hancock Co. C. N. Bass, Nashville, comr.

Ia., Ft. Madison—Lee Co. making plans two each 80 ft. and 200 ft. steel span bridge over Skunk River on primary road, north of here. $80,000. J. S. Morrison, Ottumwa, dist. engr.

Minn., Blackberry — T. Erskine, aud. Itasca Co., Grand Rapids, making plans concrete bridge over Mississippi River, here. H. A. LeSueur, Grand Rapids, co. highway engr.

Kan., Kingman — Kingman Co. made plans twelve 30 ft. span bridge, 24 ft., roadway, on Federal Aid Project 341-B. C. C. Martin, Kingman, co. engr.

Nebraska and Iowa—Washington Co., A. C. Martin, clk., Blair, Neb., plans toll bridge over Missouri River, on Lincoln Highway, connecting Fremont, Neb., and Missouri Valley, Ia. $400,000.

S. D., Buffalo—State Hy. Comn., Pierre, making plans bridge over Little Missouri River, Harding Co., near here. $25,000. O. N. Hetle, Pierre, highway engr.

Mo., Arrow Rock—E. M. Elliott & associates, 360 North Michigan Ave., Chicago, Ill., making preliminary plans rein.-con. and steel bridge over Missouri River, on U. S. Highway 40, here. $1,000,000. Private plans.

Mo., Herman—E. M. Elliott & associates, 360 North Michigan Ave., Chicago, Ill., take bids early in 1928, rein.-con., steel and timber bridge over Missouri River, to carry State Highway 45, here. $1,000,000. Private plans. Noted Apr. 7.

Mo., Miami—E. M. Elliott & associates, 360 North Michigan Ave., Chicago, Ill., making preliminary plans rein.-con. and steel bridge over Missouri River, on State Rd. 41, here. $1,000,000. Private plans.

Ark., Arkansas City — E. M. Elliott & associates, 360 North Michigan St., Chicago, Ill., making preliminary plans rein.-con. and steel bridge, approximately 2 mi. earth fill approach, etc., over Mississippi River, here. $2,500,000. Private plans.

Texas—E. C. Tobey, chn. Navigation & Canal Comrs., Tarpon Inn, Freeport, takes bids early in January, bridge over Brazos River Diversion Channel, for Brazos River Harbor Navigation Dist., Brazoria Co. Harrington, Howard & Ash, Kansas City, Mo., consult. engrs.; adv. E. N.-R. Dec. 1.

Tex., Port Arthur—City, c/o J. P. Logan, mayor, made plans and soon takes bids vertical lift bridge with horizontal clearance of 180 ft. over Taylor Bayou $171,000, or swing type bridge with horizontal clearance 180 ft. $141,000. J. W. Billingsley, Interstate Bldg., New Orleans, La., consult. engrs., L. G. Frost, Port Arthur, consult. engr. of company.

Oklahoma—State Hy. Comn., Oklahoma City, making plans 2 span 96 ft. rein.-con. trestle over Marble Creek, on Highway 17, Marble City, Sequoyah Co. $27,500, 4 span 160 ft. concrete bridge over Christie Creek, on Highway 27, near Westville, Adair Co. $40,000, 70 ft. concrete I-beam bridge over Missouri, Kansas & Texas R.R. tracks near North McAlester, Pittsburg Co. $33,000, 80 ft. steel truss span bridge over Hopeton Creek, Highway 15, Capron, $35,000, and 88 ft. steel truss bridge over Mocassin Creek, Highway 64, Avard, $40,000, both Woods Co. C. R. Mandigo, Capitol, state highway engr.

Okla., Apache—State Hy. Dept., Oklahoma City, making preliminary plans 2 span 140 ft. steel truss bridge on piers over Box Elder Creek, on Road 9, Caddo Co., near here. $35,000. C. R. Mandigo, Capitol, Oklahoma City, engr.

Okla., Maud—Pottawatomie Co., Tecumseh, making preliminary plans 4 span 340 ft. steel truss bridge on piers over North Canadian River, near here. $32,000. F. D. Brown, Shawnee, engr.

Okla., Maud—Pottawatomie Co., Tecumseh, making preliminary plans 1 span 90 ft. steel truss bridge on piers over Salt Creek, south of here. $25,000. F. D. Brown, Shawnee, engr.

Bids Desired

N. Y., Croton Lake—Dec. 8, by A. Goldman, comr. Plant & Structures, Municipal Bldg., New York City, reinforcement and

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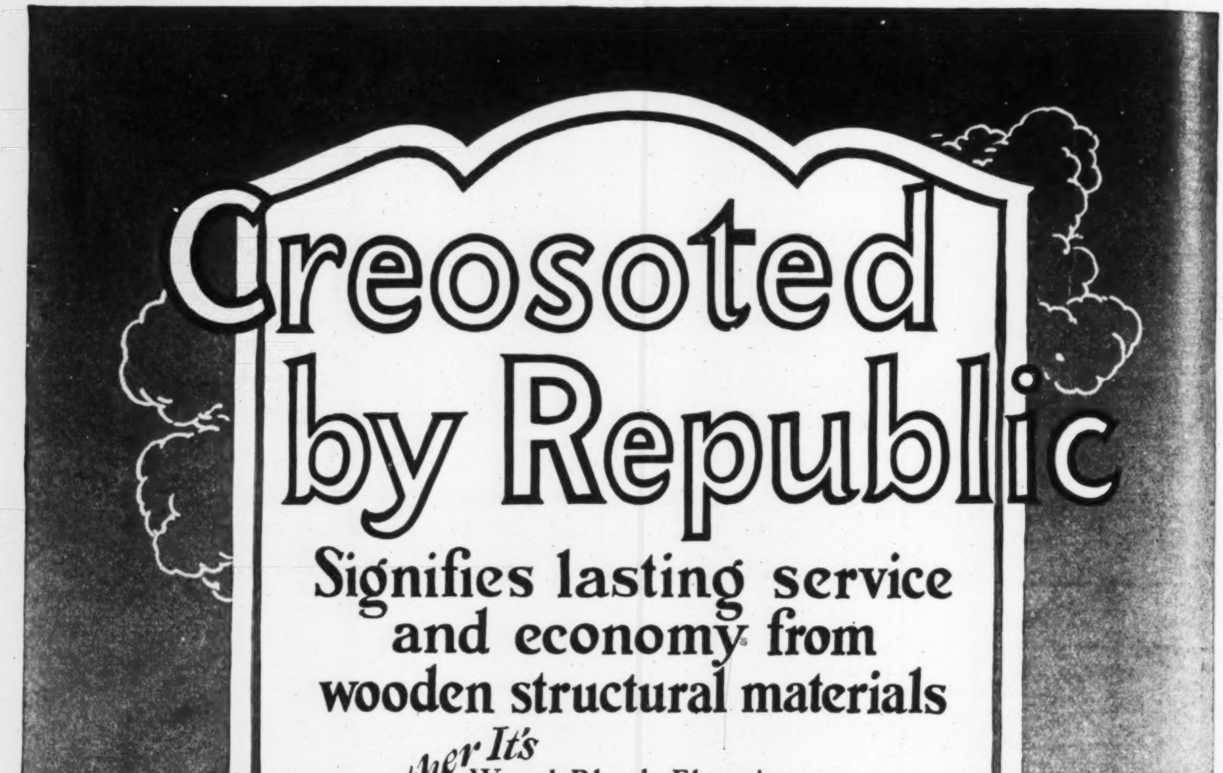

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OTHER PLANTS

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Bridges (Continued)

reconstruction Pines Bridge over Croton Lake, here.

N. Y., Mexico—Dec. 15, at office E. A. Howard, supt. highways Oswego Co., County Clerk's Bldg., Oswego, single span, rein.-con. arch bridge across Little Salmon River, here. Concrete-Steel Eng. Co., Park Row Bldg., New York City, designing engrs.; adv. E. N.-R. Dec. 1.

Pa., Media—Dec. 13, by G. T. Wadas, controller Delaware Co., constructing Bridge 72, known as Lindbergh Bridge over Darby Creek, between Clifton Heights Boro and Upper Darby Twp.; adv. E. N.-R. Dec. 1.

South Carolina—Dec. 13, by State Hy. Dept., Columbia **(F.A.P. means Federal Aid Project and S.P. State Project)**, 675 ft. concrete and treated timber bridge, on Route 21, F.A.P. 111-C, Bamberg and Orangeburg Counties; 198 ft. concrete bridge over Little Pee Dee River, also widening three existing bridges, on Route 5, S.P. 654-A, Dillion Co.; 275 ft. bridge on Route 17, F.A.P. 227-A, Florence Co.; two 170 ft. overhead bridges over Columbia, Newberry and Laurens R.R., tracks on Route 2, F.A.P. 264, Newberry Co.; 200 ft. bridge over Chauga Creek, Route 18, S.P. 635-A, and 75 ft. creosoted timber bridge, on Route 182, S.P. 648, both Oconee Co. B. M. Sawyer, Columbia, ch. highway comr.

Tennessee—Dec. 16, by State Dept. Highways & Pub. Wks., Nashville, 8 bridges over 20 ft. span on State Highway 44, Project 195-B Carroll Co., 3 bridges over 20 ft. span on State Highway 5, Project 214-A Chester Co., 7 bridges over 20 ft. span on State Highway 5, Project 214-B Madison Co., 4 concrete deck girder bridges on State Highway 2, Project 170-B Marion Co., 1 concrete and steel bridge over Richland Creek, State Highway 15, Project 180-C Giles Co., 1 concrete deck girder bridge on State Highway 51, Project 334-C Marshall Co., 6 concrete, timber and steel bridges on State Highway 21, Project 364-C Obion Co., 1 concrete and steel bridge over Clinch River, on State Highway 66 Hancock Co., and 1 concrete and steel bridge over Little Tennessee River, on State Highway 64, Monroe Co. C. N. Bass, highway comr.

Ohio—Dec. 9, by G. F. Schlesniger, dir. Hys. & Pub. Wks., Columbus, grading and twin span concrete bridge on Sect. "L" Chillicothe-McArthur Rd., Vinton Co., $17,171; grading and concrete arch bridge on Sect. "F-3" Lima-Spencerville Rd., Allen Co., $84,719; bridges on Sect. "O" Ohio River Rd., $6,662, and on Sect. "E" Jackson-Gallipolis Rd., $25,848, both Gallia Co.

Kan., Howard—See "Streets and Roads."

Tex., Batesville.—See "Streets and Roads."

Tex., Belleville—Dec. 6, by R. A. Thompson, state highway engr., Austin, concrete pile bridges on Highway 73-A, Austin Co. here. $50,000.

Tex., Chapel Hill—Jan. 6, by State Hy. Dept., Austin, rein.-con. bridge over Brazos River, near here, for Washington Co., c/o S. Lowe, co. judge, Brenham. $315,000. Noted Sept. 15 under "Texas."

Tex., Graham—Young Co., c/o W. F. Parsley, co. judge, taking new bids 60 ft., 80 ft., and 140 ft. steel span vehicular bridge over Clear Fork Brazos River. $125,000. G. R. Johnston, Graham, engr. Noted Nov. 17.

Tex., New Braunfels — City, H. H. Trietsch, mayor, Comal Co., C. Roeper judge, Missouri, Kansas & Texas R.R. of Texas, F. Ringer, ch. engr., Dallas, taking bids and open same about Dec. 15, two 28 ft., two 56 ft., two 60 ft. and one 64 ft. span cantilever girder design or light I-beam and seven 40 ft. span concrete bridge incl. 80 ft. underpass over Comal Creek, on Highway 46. $87,000. G. G. Wickline, Austin, engr. Noted Nov. 17.

Tex., Palestine—See "Streets and Roads."

Arizona—See "Streets and Roads."

California—Dec. 12, by State Hy. Dept., Sacramento, widening 8 rein.-con. bridges at points between 3 and 12 mi. south of Merced, Merced Co. R. M. Morton, Strub Bldg., Sacramento, engr.

Contracts Awarded

N. J., Newark—State Hy. Comn., Trenton, 500 ft. concrete and steel viaduct, etc., on Sect. 13, Route 1 extension, here, to O'Neill Co., 127 East Mermaid Lane, Phila., Pa., $947,415. Noted Nov. 10.

Miss., Winona—See "Streets and Roads."

La., Lake Charles — State Hy. Comn., Baton Rouge, repairing bridge over Calcasieu River, near here, to Brown Abbott Co., Inc., Wilson Bldg., Dallas, Tex. $32,382.

O., Cleveland—Cleveland Union Terminal Co., H. D. Jouett, ch. engr., Marshall Bldg., 140 ft. rein.-con. bridge, 200 ft., on Central Ave., to D. Lowensohn Constr. Co., 8810 Woodland Ave. Engrs. est. $250,000.

Mich., Monroe—City Comn., 211 ft. 5 span rein.-con. rib cantilever type bridge, on Monroe Ave., to W. H. Knapp Co., Eagle Bldg., $70,444. Noted Nov. 10.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridges on Route 55, Sect. 551-B, Cook Co., to Green-Mullenbruck & Nagel, Inc., 105 West Monroe St., Chicago, $13,293; on Route 160, Sects. 134-B and C, Madison Co., to Chernus Constr. Co., Sioux City, Ia., $30,475; on Route 64, Sect. 130-B, Du Page Co., to Ferguson Constr. Co., 218 East State St., Rockford, $9,342; on Route 2, Sect. 17-Y, Pulaski Co., to G. H. Goodlink, Lawrenceville, $2,196, on Route 10, Sect. 36-B, Vermilion Co., to Vincennes Bridge Co., Vincennes, Ind., $22,180; on same road Sect. 36-C, to R. McCalman, Inc., Danville, $26,553. Grand total $104,038. Noted Oct. 20.

Iowa—State Hy. Comn., Ames, **(B. P. means Bridge Project)**, two 200 x 20 ft. high truss spans and two 120 x 20 ft. high truss approaches on U. S. Highway 30, B. P. 30, Boone Co., to A. Olson Constr. Co., Waterloo, $77,900, one 40 x 24 ft. I-beam bridge and 50 culverts on Primary Road 149, B. P. 130, Iowa Co. to M. O. Burnett, Marengo, $29,439, one 120 x 20 ft. high truss bridge and 30 culverts on Primary Road 16, B. P. 169, Madison Co., to F. O. Akin, Corning, $43,000; one 150 x 20 ft. high truss bridge with six 40 x 20 ft. I-beam approach spans and 19 culverts on Sutherland Rd., B. P. 69, O'Brien Co., to H. Noel, Peterson, $11,978, one 10 x 14 x 48 ft. box culvert on Council Bluffs Rd., B. P. 96, Pottawattamie Co., to W. Emmet Shoppe, Jefferson, $4,690; widening 32 x 18 ft. I-beam bridge to 24 ft. roadway, on B. P. 280, Pottawattamie Co., to Wickham Bridge & Pipe Co., Council Bluffs, $2,350 Grand total $169,357. Noted Nov. 3.

Ia., Davenport—City and Chicago, Rock Island & Pacific R.R. Co., La Salle St. Station, Chicago, Ill., C. A. Morse, ch. engr., one 140 ft. truss and two 16 ft. beam spans for double track bridge over Pershing and 4th Sts., to Cedar Rapids Constr. Co., 130 Higley Bldg., Cedar Rapids, Ia., $120,000.

Kan., Topeka—See "Streets and Roads."

Tex., Kerrville—See "Streets and Roads."

California — State Hy. Comn., Sacramento, one 90 ft. steel deck truss and one 35 ft. concrete girder span bridge over Shotgun Creek, point 3½ mi. south of Sims, Shasta Co., to E. B. Skeels, Roseville, $19,902, engrs. est. $19,435; also widening rock borders 8.7 mi. roadway between Los Banos and Merced Co. line, to Larsen Bros., Livermore, $17,430, engrs. est. $21,980. Noted Oct. 27.

B. C., Wardner—Dept. Pub. Wks., Victoria, three 164 ft. steel truss span bridge over Kootenay River, here, to J. Coughlan & Sons Ltd., 1st Ave. and Columbia St., Vancouver, for Provincial Govt., Vicotria. $75,000. Noted Oct. 20.

Railways

Proposed Work

Vermont—Canadian Natl. Ry., 230 St. James St., Montreal, Que. C. S. Gzowski, ch. engr. (Constr.), made preliminary estimates covering work to be done as result of floods on following lines: Rutland Ry. $500,000, St. Johnsbury & Lake Champlain R.R. $900,000, Montpelier and Wells River R.R. $525,000, White River R.R. $300,000, and Springfield (Vermont) terminal $125,000, here.

New York—Albany Port Dist. Comn., Albany, plans 3 mi. railroad from docks under construction in Albany Port Dist. to New York Central R.R. in Rensselaer with Delaware & Hudson and West Shore in Albany. Noted Feb. 3 under "Unclassified."

Oklahoma — Chicago, Rock Island & Pacific R.R. Co., C. A. Morse, ch. engr., Chicago, Ill., making preliminary plans second track between Wewoka and Lima, incl. 90 lb. rails, here. $250,000.

Manitoba — Canadian Natl. Ry., 230 St. James St., Montreal, Que., C. S. Gzowski, ch. engr. (Constr.), plans 85 mi. railway near The Pas at Mile 8 on Hudson Bay Ry. to Flin Flon mining area in Winnipeg, here. $3,500,000.

Contracts Awarded

Missouri — St. Louis & San Francisco R.R. Co., F. G. Jonah, ch. engr., St. Louis, will lay approximately 200 mi. 110 pound rails at various points along system in 9 southwestern and southern states, by day labor. $3,000,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Massachusetts — Boston & Maine R.R., W. J. Backes, ch. engr., Boston, plans filling in Mills River Basin and portion Charles River, also constructing drains and sea wall in Boston, Cambridge and Somerville. To exceed $15,000.

Miss., Jackson — Voted $50,000 bonds, drainage and flood control work. W. A. Scott, mayor.

Ia., Fairfield—Dist. 6 of Cedar Creek, c/o Auditor Jefferson Co., making preliminary plans approximately 7 mi. drainage work, incl. approximately 300,000 cu. yd. excav.

Ia., Leon—Grand River D. D., c/o Auditor Decatur Co., making preliminary plans approximately 4.13 mi. drainage work, 340,000 cu.yd. excav. M. G. Hall, Centerville, engr.

Texas—Trinity Farms Co., Waxahachie, making preliminary plans 160,000 acre ft. water for 3 irrigation projects from Trinity River watershed, in Henderson, Anderson, Freestone and Navarro Counties. $3,000,000. Private plans.

Tex., Garwood—W. S. Lehrer plans irrigating several acres land in Fort Bend Co., using 25,000 acre ft. water, etc. from Brazos River. $75,000. Private plans.

Tex., Palestine—Levee Dist. 1, Anderson Co., making preliminary plans rebuilding drainage system for levee section, replacing wood drains with iron pipe, etc. $75,000. Private plans.

Calif., Benicia — Benicia Reclamation Dist. plans reclaiming tide lands, installing storm drains, etc., in various streets.

Calif., San Ysidro—Tia Juana Irrigation Dist. making plans pumping plant, reservoir, pipe lines, etc. $250,000. J. H. Chase, Jackson Bldg., Riverside, engr.

Bids Desired

N. Y., Brooklyn—Dec. 7, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, dredging in Fresh Creek Basin, Paerdegat Basin and Hendrix St. outlet channel.

Ill., Arthur—Dec. 10, by Commissioners D. D. 2, Town of Lowe, Moultrie Co., at office J. S. Pribble, town clerk, Arthur, 19,700 ft. ditch work, incl. 12,758 cu.yd. excav., etc., near here.

Minn., Good Thunder—Dec. 16, at office C. L. Kennedy, aud. Blue Earth Co., constructing D. D. 73, 6.5 mi. 8- to 20-in. tile. W. C. Minks, chn. co. board.

Ark., Piggott — Dec. 6, by Bd. Comn., Subsidiary D. D. 21, of St. Francis Dist., M. D. Robbins, pres., constructing approximately 500,000 cu.yd. drainage ditches, Clay and Green Counties. J. R. Rhyne, Corning, engr. Noted Aug. 4.

Mo., Bloomfield—Dec. 7, by A. C. Spiker, engr. D. D. 39, Stoddard Co., known as G. W. Kruse et al Drainage District, constructing ditch, etc., 26,423 cu.yd. excav.

Wash., Port Angeles — Dec. 7, by City Comrs., 190,000 cu.yd. fill, 219,000 ft. bulkhead lumber, 1,500 cu.yd. gravel, 800 lin.ft. sewer pipe, etc., for waterfront fill. T. W. Owen, Port Angeles, engr.

Calif., Proberta—O. R. Smith, secy. El Camino Irrigation Dist., taking bids approximately 22 mi. 8- to 14-in. concrete pipe with surges, etc., Contr. 8; also drilling and casing approximately 2 wells 80 ft. of 16 in. and 220 ft. 12 in. well casing, etc., Contr. 7.

Ont., Parkhill—Dec. 9, by O. Amos, clk. McGillivray Twp. excavating or dredging 191,000 cu.yd. Aux Sables River Drain. $45,000. F. W. Farncomb, London, engr. Noted May 12.

Contracts Awarded

O., Cleveland—New York, Chicago & St. Louis R.R. Co., A. C. Harvey, ch. engr., Columbia Bldg., 1,791 ft. concrete retaining wall, to Industrial Constr. Co., 308 Euclid Ave. Noted Oct. 6.

Illinois—Drainage Comrs. Union D. D. 1, Hamilton Twp., Lee Co. and Hahnaman Twp., Whiteside Co., redredging 7½ mi. channel Green River, 465,000 cu.yd. excav., to McWilliams Dredging Co., McCormick Bldg., Chicago, approximately $80,000. Noted Oct. 20.

Calif., Grass Valley — B. W. Baldwin, secy. Nevada Irrigation Dist., metal flume, corrugated culverts, etc., to California Corrugated Culvert Co., Berkeley, $22,694; and

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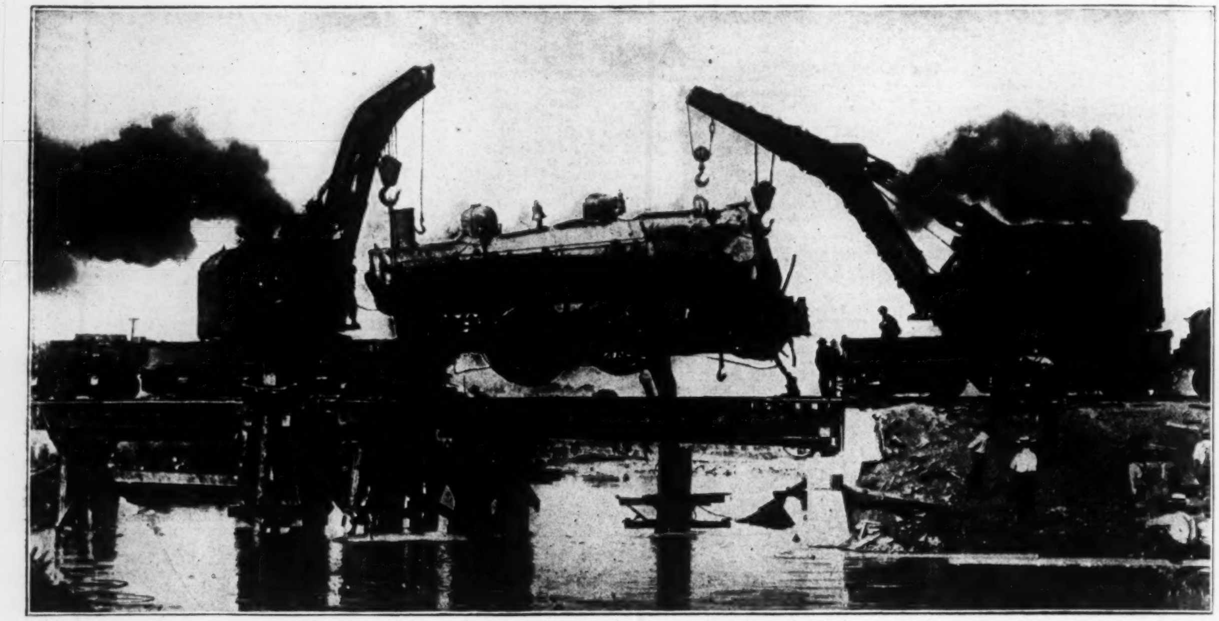

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INDUSTRIAL BROWNHOIST

Excavation, Drainage, Irrigation, Levees, River and Harbor (Continued)

constructing D-S canal under Contr. 26, to Morrison-Knudsen Co., 319 Bway., Boise, Idaho, $152,326. Noted Nov. 3.

Calif., Richmond—City, riprap on Ford Fill and Gilmore Fill at Inner Harbor, to Healey-Tibbetts Constr. Co., 64 Pine St., San Francisco, $31,450.

Ont., Port Arthur—Canadian Natl. Rys., New Union Sta., Toronto, removing 25,000 cu.yd. rock for terminal yards, here, to W. S. Tomlinson Ltd., Winnipeg, Man., $80,000.

Streets and Roads

Bids Desired

N. Y., Buffalo — Dec. 5, at office Dept. Pub. Wks., J. J. Love, comr., Municipal Bldg., grading and paving Juniata St.; also repaving Webster Alley, Ketchum Pl., Smith St. and Woodward Ave.

N. Y., New York—Dec. 7, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., constructing roadway from Bronx River Parkway (Bronx Blvd.) in vicinity East 229th St. and crossing over Bronx River on an arched bridge and under New York Central & Hudson River R.R. tracks, and East 233rd St., connecting with Bronx River Parkway near 233rd St., Sect. 1; sheet asphalt on concrete repaving East 187th St.; sewer in Arnow and Mathews Aves.; and reconstructing retaining wall along easterly side Sheridan Ave. from East 153rd to East 161st Sts.

N. J., Eatontown—Dec. 21 (extended date), by Bd. Freeholders Monmouth Co. (Freehold), rein.-con. paving 100,000 sq.yd. Shore Relief Rd. from Eatontown to Asbury Ave., Ocean Twp., here. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr.; adv. E. N.-R. Dec. 1. Noted Nov. 3.

Pennsylvania — Dec. 16, by State Hy. Comn., Harrisburg, grading 505 ft. Route 381, Berks Co.; bituminous treated macadam paving 23,000 ft. Heidelberg-South Lebanon Rd., Lebanon Co.; and one course rein.-con. paving, etc., approximately 92,739 ft. 8 projects in Blair, Clearfield, Crawford, Mercer, Monroe, Morris, Huntingdon and Westmoreland Counties. J. L. Stuart, secy.; adv. E. N.-R. Dec. 1.

Md., Baltimore—Dec. 7, by Bd. Awards, sheet asphalt paving 7,080 sq.yd. streets listed in Contr. 443. N. L. Smith, City Hall, highways engr.

Fla., Inverness—Dec. 5, by Comrs. Citrus Co., clearing, grading and paving 6.2 mi. Rutland Bridge Rd. E. V. Camp & Associates, Inc., Inverness, consult., superv. and testing engrs.

South Carolina—Dec. 13, by State Hy. Dept., Columbia **(F.A.P. means Federal Aid Project and S.P. State Project)**, concrete paving 7.9 mi. Route 15, F.A.P. 96, reopened Anderson Co., 22.4 mi. Route 28, F.A.P. 95, reopened Beaufort Co., 6 mi. Routes 2 and 45, S.P. 666 Calhoun Co., 5.9 mi. Route 17, F.A.P. 79-A, reopened Jasper Co., 12.9 mi. Route 3, F.A.P. 234-B and C, Lexington Co., 8 mi. U. S. Route 17, F.A.P. 171-B, Contr. 2 Marion Co., and 12.8 mi. U. S. Route 17, F.A.P. 227-B, Williamsburg Co.; grading 4.5 mi. Route 9, S.P. 654-A Dillon Co., 5 mi. Route 3, S.P. 663-B and C, Lexington and Richland Counties, and 2.2 mi. Route 215, S.P. 511-B, Richland Co; grading and sand clay surfacing 1.6 mi. approaches to underpass at Salters Pond, Route 19, F.A.P. 258-B, Edgefield Co.; 3 in. sheet asphalt on 5 in. concrete surfacing 6.2 mi. Route 29, F.A.P. 198 and 278, and 5 mi. Route 11, F.A.P. 207-D, both Cherokee Co., 16.1 mi. Route 17, F.A.P. 188, reopened and 277-A Florence Co., 15.3 mi. Route 39, F.A.P. 141 and 214, reopened Saluda Co., also approaches to Ashley River bridge and concrete paving approaches to John's Island and Wallace Creek Bridges, on Route 17, Charleston Co. B. M. Sawyer, Columbia ch. highway comr.

Miss., Columbia—Dec. 6, by City Council, concrete, asphalt or brick paving, etc. approximately 6,850 sq.yd. various streets. H. A. Mentz, Hammond, La., engr.

Miss., Gulfport—Dec. 6, by Bd. Supervs. Harrison Co., E. McManus, clk., grading, curbing, guttering, 2 in. warrenite bitulithic on 5 in. concrete paving, etc. 4,300 sq.yd. West Beach Blvd., Beat 3, Project 24-B.

Louisiana—Dec. 15, by State Hy. Comn., Baton Rouge, grading and graveling 3.619 mi. Jena-Jonesville Highway, Federal Aid Project 153-D, LaSalle Parish; and 7.479 mi. Lindsay-Jackson Highway, State Project 561, East Feliciana Parish. N. W. Bowden, Raymond Bldg., Baton Rouge, state engr.

Louisiana—Dec. 20, by State Hy. Comn., Baton Rouge, grading and graveling 5.64 mi. Amite-Baton Rouge Highway, State Project 581-A-1, St. Helena Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Louisiana—Dec. 22, by State Hy. Comn., Baton Rouge, graveling 9.784 mi. Ville-Platte-Bunkie Highway, State Project 402-B, Evangeline Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, state highway engr.

Tennessee—Dec. 16, by State Dept. Highways & Pub. Wks., Nashville, grading, etc. 11.204 mi. State Highway 15, Project 18-B, incl. 3 bridges over 20 ft. span, and 1.819 mi. State Highway 1, Project 36-G, incl. 1 bridge over 20 ft. span, both Shelby Co., 12.189 mi. State Highway 1, Project 121-C Humphreys Co., 10.157 mi. State Highway 24, Project 123-E Putnam Co., 12.727 mi. State Highway 44, Project 195-B Carroll Co., 5.728 mi. State Highway, 1 Project 210-B Knox Co., incl. 2 bridges over 20 ft. span, 4.244 mi. State Highway 5, Project 214-A Chester Co., 11.422 mi. State Highway 5, Project 214-B, Madison Co., 2.841 mi. State Highway 2, Project 217-B, McMinn Co., 14.134 mi. State Highway 74, Project 371-A Putnam Co., incl. 1 bridge over 20 ft. span, 4.342 mi. State Highway 2, Project 372-A and 6.661 mi. same road Sect. B, incl. 1 bridge over 20 ft. span Loudon Co., and 6.466 mi. State Highway 2, Project 373-A, Monroe Co.; rock asphalt or sheet asphalt on concrete paving 9.976 mi. State Highway 22, Project 195-A Carroll Co., and 7.061 mi. State Highway 1, Project 210-A Knox Co., concrete pavnig 17.442 mi. State Highway 34, Project 324-B, Hawkins and Greene Counties, and 15.514 mi. Heloise-Dyersburg Rd., Project 302-C Dyer Co.; also two 4,850 ft. driveways, 14 ft. wide on Harrihan Bridge over Mississippi River, Project 300-B, Shelby Co. C. N. Bass, highway comr.

Ohio—Dec. 9, by G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, grading and paving, etc., 15,43 mi. roads in Cuyahoga, Geauga, Meigs, and Summit Counties.

O., Columbus—Dec. 7, by F. L. Donnally, clk. Franklin Co., grading and waterbound macadam on 6 in. concrete paving, etc., 3.279 mi. Lithopolis Rd., Madison Twp., 18 ft. $70,000. C. C. Lattimer, Court House, engr.

Ind., Indianapolis—Dec. 12, by Comrs. Marion, Hamilton and Boone Counties, Court House, constructing 1.603 mi. County Line Rd. $43,859. H. Dunn, Indianapolis, aud.

Mich., Flint—Dec. 8, at Genesee Co. Office, rein.-con. paving 10.5 mi. Silver Lake, Argentine and Byson Rds., 20 ft. J. H. Dennis, Flint, co. engr.

Ia., Council Bluffs—Taking bids concrete, sheet asphalt, asphaltic concrete, Warrenite or brick paving 10,779 sq.yd. Avenue D, South 8th, Hunter, 19th, Euclid and 5th Aves., and 1,000 sq.yd. of approaches on Indian Cheek Bridge; also brick on concrete paving 478 sq.yd. on bridge, Scott St. and Bway. B. Walker, City Hall, engr.

Kan., Dodge City—Dec. 9, by Clerk Ford Co., sand clay surfacing 9.424 mi. US. 50-S, Project 64-A.

Kan., Howard—Dec. 8, by Clerk Elk Co., grading and bridging 4.772 mi. K12, Project 164-C.

Kan., Lakin—Dec. 16, by Clerk Kearny Co., grading, etc., 70,928 cu.yd. Project 37-A, also 76,752 cu.yd. Project 37-B, 30 ft. C. H. Conrick, Lakin, co. engr.

Neb., Wahoo—Dec. 9, by D. L. Tarpenning, city clk., curbing, alternate types paving, etc., 13,077 sq.yd. various streets in Dist. 9. $38,927-$53,591. Bruce & Grupe, Bankers Reserve Life Bldg., Omaha, engrs. Noted Oct. 13.

Texas—Dec. 6, by R. A. Thompson, state highway engr., Austin **(S.A.P. means State Aid Project and F.A.P. means Federal Aid Project)** grading and bridging 8.978 mi. State Highway 79, F.A.P. 532-D $32,000, and 9.339 mi. same road Sect. C $100,000, Archer Co., 12.596 mi. State Highway 24, F.A.P. 527-A $95,000, and 12.164 mi. same road Sect. B $50,000, Young Co., grading, bridging and gravel surfacing 1.856 mi. State Highway 49, S.A.P. 743, Franklin and Red River Counties $80,000, grading, etc. 14.202 mi. State Highway 73-A, Austin Co. $90,000, all foregoing 26 ft. 6.05 mi. State Highway 39, S.A.P., 753-B, Wise Co. $40,000, and 4.658 mi. State Highway 3, F.A.P. 512-B, Harris Co. $175,000, both 18 ft.; also crushed stone and Caliche paving 13.122 mi. State Highway 18, Shackelford Co., $70,000. R. A. Thompson, Austin, engr.

Tex., Batesville—Dec. 6, by R. A. Thompson, state hy. engr., Austin, grading and bridging 31.101 mi. highway 55, State Aid Project 750, 26 ft., Zavalla Co. $90,000. G. M. Jowers, Batesville, engr. Noted Nov. 24.

Tex., Cuero — Dec. 19, by De Witt Co. Court, hardsurfacing approximately 11 mi. Highway 11 from Davy to Goliad Co. line through Yorktown, 18 ft. $200,000. S. H. Gulledge, Yorktown, resident engr. Noted Oct. 13.

Tex., Giddings—Dec. 6, by R. A. Thompson, state highway engr., Austin, grading and bridging 8.623 mi. State Highway 102, State Aid Project 734, 26 ft., Lee Co. $30,000. J. W. McCutcheon, Lexington, engr.

Tex., Palestine—Dec. 6, by R. A. Thompson, state highway engr., Austin, grading and bridging, 3.897 mi. State Highway 43, Federal Aid Project 453-F from Neches to Neches River, Anderson Co., 26 ft. $25,000. E. W. Davis, Palestine, co. engr.

Arizona—Dec. 6, at office State Hy. Comn., Phoenix, grading and surfacing 21 mi. Schedule 1, Tucson-Benson Highway, Federal Aid Project 90-A, incl. 1 bridge. W. C. Lefebvre, state engr.; adv. E. N.-R. Dec. 1.

Calif., Los Angeles—Dec. 12, by Supervs. Los Angeles Co., grading and 6- to 8-in. concrete paving, etc., 216,405 sq.ft. Valley View Ave., A & I D 152. $70,000 or more. G. W. Jones, Hall of Records, engr.

Calif., Palo Alto — Dec. 12, by E. L. Beach, city clk., curbing, walks and 6 in. hydrated concrete paving, etc., portion Stanford Ave. To exceed $30,000. J. F. Byxbee, Jr., city engr. Noted Oct. 6.

Calif., San Diego—Dec. 12, by Common Council, grading, curbing, walks and 6 in. concrete paving, etc., 128,523 sq.ft. Trojan Ave.; also grading, curbing, walks and 6 in. asphaltic concrete paving, etc., 323,719 sq.ft. Winona Ave. and 50th St., etc. H. W. Jorgensen, city engr. Noted Nov. 3.

Wash., Yakima — Dec. 7, by Comrs. Yakima Co., surfacing 5.227 mi. Benton County Permanent Highway 16. C. L. Ammon, Prosser, engr.

Contracts Awarded

Mass., Boston—Dept. Pub. Wks., granite block paving Kneeland St., to M. F. Gaddis, 6 Beacon St., $49,038. Noted Oct. 20.

Mass., Boston—Park Dept., 33 Beacon St., grading Back Bay Fens, Audubon Rd., etc., to J. C. Coleman & Sons Co., 1620 Tremont St., Roxbury, $25,940. Noted Nov. 24.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, concrete paving Taylor St., to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $10,888; also granite block paving grove St. and brick guttering Lawrence St. to Vanbro Constr. Corp., 24 Elizabeth St., West New Brighton, $10,544 and $5,307 respectively. Grand total $26,739. Noted Nov. 10.

New Jersey—State Hy. Dept., Trenton, grading and 8 in. double line rein.-con. paving 55,163 sq.yd. Route 15, Sect. 11, East Creek-South Dennis Rd., Cape May Co., to W. L. White, 3057 Kearsarge Rd., $277,826; and 47,090 sq.yd. Route 18-S, Pittsgrove-Elmer Rd., Salem Co., to C. H. Earle, Chelsea Bank Bldg., Atlantic City, $141,188. Noted Nov. 10.

New Jersey—State Hy. Comn., Trenton, grading and graveling Route 17, Sect. 2, Pedricktown Relocation, Salem Co., to C. D. Prosser, Pitman, $37,254. Noted Sept. 29.

Pennsylvania—State Hy. Comn. Harrisburg, **(A. means Application and R. Route)**, grading, etc., 1,070 ft. R. 150, Bucks Co., to H. C. Ambler, 3717 York Rd., Phila. $21,230, 1,250 ft. R. 111, Sect. 7, Greene Co., to W. K. Reed, Waynesburg $6,677, 3,624 ft. R. 1, Dauphin Co., and one course rein.-con. paving, etc. 4,406 ft. R. 460, Northumberland Co., to Swanger & White, 2nd and Canal Sts., Lebanon, $17,007 and $56,168 respectively; one course rein.-con. paving, etc. 5,428 ft. A. 4809, Potter Co., to D. L. Dennis, Galeton $49,139, 32,312 ft. R. 525, Sect. 2, Cambria, Westmoreland and Indiana Counties, to Hagedorn Constr. Co., Grafton, W. Va. $286,036, 8,078 ft. R. 302, A. 4910, Westmoreland Co., to E. H. Canon, McKeesport $88,557 11,916 ft. R. 115, Spur, Sect. 2, Allegheny Co., to McPherson Bros., 423 Chestnut Rd., Edgeworth $105,966, 37,018 ft. R. 246, Butler Co., to P. R. Beals, 75 Moeller Ave., Buffalo, N. Y. $283,218, 10,309 ft. R. 100, Sect. 2, McKean Co., to J. C. Devine Co., Alliance, O. $75,662, 7,893 ft. R. 527, Lancaster Co., to J. M. Eshleman, Landisville $64,561, 1,378 ft. R. 470, Mifflin Co., to J. M. Hutchinson, Altoona $20,934, 6,610 ft. As. 4929-30, York Co., to Harry T. Campbell Sons Co., Inc., Towson, Md. $50,950, and 18,716 ft. R. 276, Sect. 2, Clearfield Co., to W. C. Quick & Co., Brookville $146,353. Grand total $1,272,458. Noted Nov. 3.

Md., Baltimore—Bd. Awards, sheet asphalt paving 12,760 sq.yd. streets listed Contr. 440, to P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R. tracks, $47,716; and 13,950 sq.yd. streets listed in Contr. 439, to Amer. Paving & Contr. Co., Montebello Ave., $60,709. Noted Nov. 10.

Constr. News page 274

CC-35 Paving Breaker—a non-rotating, hard-hitting, one-man compressed air tool that is used for cutting through hardpan, asphalt, concrete, etc.

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Streets and Roads (Continued)

North Carolina—State Hy. Comn., Raleigh, grading and plain concrete paving 4.91 mi. Project 1051, Beaufort Co., to F. J. McGuire, Bankers Trust Bldg., Norfolk, Va. $109,630 and 7.04 mi. Project 4260, Franklin Co., to Gregory & Weisiger, Pittsboro, $157,466; clearing, grading, etc., 15.1 mi. Project 335, Columbus Co., to Hudson & Scruggs, Wilmington, $46,816; clearing, grading and sand clay surfacing 15.06 mi. Project 4380, Harnett Co., to Carter & Vincent, Shelby, $62,176; grading, and small rein.-con. structures on 3.96 mi. Project 776, Wilkes Co., to P. L. London, Jr., Asheville, $25,578 and 8.19 mi. Project 561, Montgomery Co., to W. C. Carter, Shelby $48,894; grading and sand asphalt paving 4.56 mi. Project 6642, Richmond Co., to Blythe Bros. Co., Brevard Court, Charlotte, $75,765; also grading, gravel surfacing and small rein.-con. structures on 3.35 mi. Project 705, Alleghany Co., to W. E. Graham, Mt. Villa, $68,501. Grand total $594,826.

Mississippi — State Hy. Comn., Jackson, constructing 30 mi. road across Montgomery Co., through Stewart, Kilmichael and Winona, to S. T. and H. C. Pilkinton, Artesia, $225,000.

Miss., Jackson—Hinds Co., grading, concrete curbing and concrete paving, etc. 169,826 sq.yd. Raymond-Utica Rd., to Lawrence Constr. Co., Jackson, $410,192. Noted Oct. 27.

Miss., Winona—Montgomery Co., grading, bridging and graveling 22.643 mi. Greenwood-West Point Highway, to Pilkington Bros., Artesia, $150,120.

Louisiana — State Hy. Comn., Baton Rouge, graveling 9.858 mi. Leesville-Alexandria Highway, Vernon Parish, to I. M. Goldberg, Abbeville, $66,162; 4.95 mi. Bernice-Farmerville Highway, Project 554-A. Union Parish, to Drew Bros., Minden, $29,298; and 14.3 mi. Greensburg-Baton Rouge Highway, Project 462, St. Helena Parish, to Williams Bros. Constr. Co., Osyka, Miss., $120,998. Grand total $216,458. Noted Oct. 27.

La., Cameron—Cameron Parish eastern road bed, etc. 26 mi. Consolidated Road Dist. A, on Route 104, to C. R. Cummins, Penton Bldg., Cleveland, O., $106,790.

Kentucky—State Hy. Dept., Frankfort, grading, etc. 2.557 mi. Beattyville-Jackson Rd., State Project 29-E, Lee Co., to Moynahan & Turner, Lexington, $54,038; and bituminous macadam surfacing 3.131 mi. Shelbyville-Copper Rd., State Project 160-B, Shelby Co., to C. L. Lewis, Covington, $57,626. Noted Oct. 6.

O., Dayton—Paving, etc., 20,000 sq.yd. West 2nd St., to R. P. Sebold, Ludlow Bldg., brick $81,898, concrete $66,032. Engrs. est. $85,000.

Mich., Grosse Pointe (br. Detroit)—One course 6 in. concrete paving 18,000 sq.yd. alleys in various sections to Bishop & Weir, 955 East Jefferson Ave., $33,600.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, paving Route 55, Sect. 551, Cook and Du Page Countis e,to Chicago Heights Coal Co., Chicago Heights, $162,373, Route 122, Sect. 124, Mason Co., to H. A. Carpenter, Evansville, Ind., $32,491, Route 148, Sect. 127, Franklin Co., and Route 148, Sect. 130, Williamson Co., to Mitchell Constr. Co., Marion, $111,101 and $105,298 respectively, Route 6, Sect. 32, Whiteside Co., to E. M. Rocho, 309 2nd Natl. Bank Bldg., Freeport, $68,494, Route 126, Sect. 116, Montgomery Co., to Mautz & Oren, Effingham, $128,440, Route 102, Sect. 101, Adams Co., to P. Simons, Quincy, $142,611, Route 112, Sect. 103, Madison Co., to Madison Constr. Co.; Edwardsville, $97,539, Route 163 Sect. 102, Crawford Co., to D. E. Alumbaugh, Sullivan, Ind. $30,945, Route 142, Sect. 104, Marion, Fayette and Alexander Counties, to R. A. Baum, Paris, $188,776, Route 19, Sect. 86-S, Cook Co., to S. Jaicks, Oak Park, $72,217, Route 18, Sect. 13-E, Kendall Co., to Hurden Constr. Co., Ferguson Bldg., Springfield, $13,134, Route 14, Sects. 11 and 12, White Co., to French Constr. Co., Fairfield, $151,476, Route 89, Sect. 124, Marshall Co., to Hartmann-Clark Bros. Co., 330 Peoria Life Bldg., Peoria, $90,590, and Route 72, Sect. 128-W, De Kalb Co., to C. E. Giertz & Son, Elgin, $17,889; grading Route 156, Sect. 102-A, Monroe Co., to Keeley Bros. Constr. Co., 2100 State St., East St. Louis, $69,035, Route 13, Sect. 28-V-1, St. Clair Co., to H. A. Worman, Pittsfield, $3,600, and Route 10, Sect. 36-A, Vermilion Co., to R. C. McCalman, Inc., Danville, $28,321. Grand total $1,514,330. Noted Oct. 20.

Ill., Sterling—Concrete slab paving portion Lincoln Highway, east of here, to E. M. Rocho, Freeport, $69,185.

Iowa—State Hy. Comn., Ames, **(F. A. P. means Federal Aid Project and P. P. Primary Project)**, to Bryant Paving Co., Waterloo, grading, paving, etc., 69,482 sq. yd. U. S. Highway 23, P. P. 239, $163,603, and 15,150 sq.yd. U. S. Highway 20, F. A. P. 5, $36,187, both Buchanan Co., 204,191 sq.yd. Primary Road 10, P. P. 558, Butler Co. $473,074, 166,256 sq.yd. U. S. Highway 20, F. A. P. 4, Delaware Co. $424,234, and 86,246 sq.yd. U. S. Highway 20, P. P. 236, Delaware Co. $208,225, to Western Asphalt Paving Co., Sioux City, 55,037 sq.yd. U. S. Highway 34, F. A. P. 280, Pottawattamie Co. $135,142, and to C. H. Atkinson Paving Co., Watertown, S. D., 122,650 sq.yd. U. S. Highway 34, P. P. 559, Wapello Co. $325,368; to Lynch & Co., Castana, graveling, etc., 7.2 mi. Denison Rd., P. P. 401 and 451, Crawford Co. $7,037, to Ehling & Snyder, Charles City, 10 mi. Butler Co. Line Rd., P. P. 529, Floyd Co. $7,084, to C. L. Yost, Bristow, 3 mi. Primary Road 105, P. P. 216-D, Worth Co. $3,393, and to Moe & Nelson, Belmond, 9.736 mi. Primary Road 15, F. A. P. 267, Wright Co. $7,984; also to H. J. Murphy, Marengo, 8,240 ft. cable and 3,950 ft. Type C guard rail on F. A. P. 3 and 120, Jefferson Co., $3,787. Grand total $1,795,111. Noted Nov. 3.

Ia., Independence—Comrs. Buchanan Co., concrete paving 31.827 mi. U. S. Highway 20 and 19.4 mi. Primary Rd. 10, also 0.5 mi. Primary Rd. 14, to Bryant Paving Co., Waterloo, $832,242 and $473,073 respectively.

Minnesota — State Hy. Comn., St. Paul **(F.A.P. means Federal Aid Project and S.P. State Project)**, concrete paving, etc. 91,200 sq.yd. Sect. 2 and 27,200 sq.yd. Sect. 3 S.P. 5-31, F.A.P. 380, also 81,200 sq.yd. S.P. 52-21, F.A.P. 381, to Garrick Bros., 779 Portland Ave., St. Paul, $274,074. State furnishes cement. Noted Oct. 27.

Kan., Clay Center—For 6 in. rein.-con. paving 7,000 yd. and 9.69 in. slab concrete paving 5,000 yd. various streets, to Reed & Wheelock, Clay Center, $44,386.

Kan., Kansas City—Wyandotte Co., concrete paving 0.551 mi. Project 321-C, to Reed & Wheelock, Clay Center, $18,154. Noted Nov. 10.

Kan., Topeka — Shawnee Co., concrete paving 0.97 mi. Wakarusa Spur, also two 25 ft. and one 30 ft. deck girder span bridge, to M. W. Watson, Topeka, $37,533 and $5,025 respectively.

Tex., Galveston—Asphalt on hard base paving approximately 30,000 sq.yd. Ave. S from 39th St. to city limits, and Ave. N, from 21st to 23rd Sts., to Moller & Roberts, Hitchcock, $73,209.

Tex., Kerrville—Kerr Co., grading and bridging 11.251 mi. State Highway 41, Federal Aid Project 520 A, Unit 1, 26 ft., to Walsh, Burney & Moore, 618 1st Natl. Bank Bldg., San Antonio, $50,222. Engrs. est. $60,000.

Tex., Ralls—J. M. De Bolt, mayor, grading and 2½ in. brick on 5 in. concrete paving, etc. approximately 26,646 sq.yd. various streets, to Panhandle Constr. Co., Box 481, Lubbuck, $102,245. Noted Oct. 27.

Tex., San Angelo—T. A. Thompson, state hy. engr., Austin, grading and concrete paving 15.67 mi. State Highway 9, Federal Aid Project 338, 18 ft., Tom Green Co., to W. S. Thomson, Box 597, San Angelo, $386,671. Engrs. est. $475,000. Noted Oct. 27.

California—See "Bridges."

California—State Hy. Dept., Sacramento, grading and crushed gravel or stone surfacing, etc., roadway between 1 mi. south and 1 mi. north of Arno, Sacramento Co., to Mankel & Staring, Sacramento, $38,331. Engrs. est. $44,203. Noted Oct. 27.

Calif., Culver City — Grading, curbing, walks and 5 in. vibrolithic concrete paving, etc., Arleta Sts., etc., to G. H. Oswald Co., 366 East 58th St., Los Angeles, $109,895. Noted Oct. 6.

Calif., Los Angeles—Improving various streets to Kneen Paving Co., 216 Dudley Blk., Santa Monica, $211,390.

Calif., Los Angeles—Grading, curbing, walks, concrete and asphaltic concrete paving, etc. Ancon and Santa Cruz St. Impvt. Dist., to Griffith Co., Railway Bldg., $62,205; grading and concrete paving, etc. Saturn St. and Ellmere Ave., Impvt. Dist., to Tryon & Brain, California Bldg., $285,395, also Lorena and 2nd St. Impvt. Dist., to Wells & Bressler, California Bank Bldg., Santa Ana, $128,659. Grand total $476,259.

Calif., Oceanside — Grading, curbing, walks and macadam paving, etc. portions Cleveland and 8th Sts., etc. to Miracle Constr. Co., 1604 Dale St., San Diego, $25,375.

Calif., San Diego—San Diego Co., walks and asphaltic concrete paving, etc. Santa Fe Ave. in Vista Dist., to R. E. Hazard Contg. Co., 2548 Kettner Blvd., $47,122; also grading and 5 in. concrete paving, etc. 150,100 sq.ft. Campo Rd., etc. in La Mesa Highlands, to R. H. Downer, 4358 Bancroft St., $60,931, engrs. est. $72,000.

Calif., San Luis Obispo—San Luis Obispo Co., grading and graveling, etc. La Mesa Tract, etc., to H. Delassi, Oceano, $38,445.

Ont., Toronto—York Twp., bitulithic on concrete paving Lambton Ave., to Warren Bituminous Paving Co., 54 Unversity Ave., $30,061. Engrs. est. $35,000.

Buildings—Commercial

Proposed Work

N. H., Whitefield — HOTEL — Mountain View Hotel, W. F. Dodge & Son, proprietors, plan altering and constructing hotel addition. To exceed $150,000. Engineer and architect not selected yet.

Vt., Montpelier—HOTEL—W. H. Farrar, 25 Liberty St., having plans prepared by F. C. Teich, 212 Rathael Bldg., New Britain, Conn., brick and steel hotel and large garage building, State St., here. Archts. est. $400,000. Noted Oct. 27.

Mass., Boston — APARTMENT — L. F. Kaufman, 43 Tremont St., having plans prepared by G. N. Jacobs, 9 Bosworth Pl., 5 story and basement, 55 x 105 ft., rein.-con., brick and limestone, plain foundation, 14 Commonwealth Ave. $160,000.

Mass., Boston—OFFICE, COMMERCIAL and MANUFACTURING—Atlantic Building Trust, c/o M. C. Burton, 470 Atlantic Ave., having plans prepared by Blackall, Clapp & Whittemore, 31 West St., 13 story basement; and sub-basement, 65,000 sq.ft. floor space, rein.-con., brick and steel, Atlantic Ave. and Pearl St. extension. $4,000,000.

Mass., Boston—RETAIL STORE and MAIL ORDER HOUSE—Sears, Roebuck & Co., C. M. Kittle, pres., Arthington and Honan Sts., Chicago, Ill., plans retail store and mail order house, Brookline Ave. and Audubon Rd., here. To exceed $150,000. G. H. Nimmons & Co., 125 South Michigan Ave., Chicago, Ill., archts.

Mass., Fall River—HOME—B. P. O. E., G. Grime, chn. com., 8 South Main St., having preliminary plans prepared by J. I. Higgins, 44 Borden Blk., brick, Bank and Purchase Sts. $150,000 or more. Noted Nov. 3.

Mass., Fitchburg—HOME—I.O.O.F., F. C. Cady, 132 Snow St., plans raising $150,000 funds, new home. Engineer and architect not selected.

Mass., Lowell—HOSPITAL—Lowell General Hospital, J. F. Sawyer, treas., having plans prepared by Appleton & Stearns, 53 State St., Boston, 2 story and basement, 45 x 160 ft., brick, hospital for incurables, plain foundation. $200,000.

Mass., Newton — STORE, OFFICE and BOWLING ALLEYS — See "Contracts Awarded."

Mass., Newton—STORE, OFFICE and BOWLING ALLEYS—Craigie Real Estate Trust, c/o H. W. Morton, archt., 52 Institution Ave., having plans prepared 2 story and basement, 125 x 150 ft., brick and stone, plain foundation, Washington and Beacon Sts. $150,000.

Mass., Plymouth — THEATRE, STORE and OFFICE—Colonial Amusement Co., W. Resnick, Court St., plans 2 story and basement, brick and steel, 56-60 Court St. $300,000. Engineer and architect not selected.

Mass., Quincy (Ind. br. Boston)—CITY HALL—City, T. J. McGrath, mayor, City Hall, plans city hall, Hancock and Dimmock Sts. To exceed $150,000. Engineer and architect not selected.

Conn. Bridgeport — THEATRE — Keith-Albee Exchange, 1564 Bway., New York City, plans brick and steel theatre, here. To exceed $150,000. Engineer and architect not selected.

Conn., Hartford—APARTMENT—Lapuk Bros. 39 Charter Oak Pl., plans brick and steel, Asylum St. $150,000.

Conn., Hartford — THEATRE — Keith-Albee Exchange, E. F. Albee, pres., 1564 Bway., New York City, plans brick and steel, here. To exceed $150,000. Engineer and architect not selected.

Conn., New Haven—STORE and OFFICE—Mansfield Ferry, c/o Brown & Von Beren, archts., Chamber Commerce Bldg., having plans prepared 2 story, 110 x 230 ft., brick, steel and terra cotta, Center and Temple Sts. $150,000.

N. Y., Brooklyn—GARAGE—Owner, c/o E. M. Adelsohn, archt., 26 Court St., having plans prepared 2 story garage, Crown St. and Franklin Ave. $150,000.

N. Y., Brooklyn—STORE and APARTMENT—Owner, c/o E. M. Adelsohn, archt., 26 Court St., having plans prepared 3 story store and apartment, Coney Island Ave. and Avenue K. $200,000.

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Buildings—Commercial (Continued)

N. Y., New York—APARTMENT—J. H. Carpenter, 522 5th Ave., having plans prepared by J. E. R. Carpenter, 598 Madison Ave., 12 story apartment, on 60 x 100 ft. site, Madison Ave. near 89th St. $2,000,000.

N. Y., New York—APARTMENT and STORES—J. M. Felson (owner and archt.), 250 West 57th St., preparing plans 16 story and basement, 40 x 100 ft. apartment and store building, 107 West 86th St. $400,000-$500,000.

N. Y., New York—ASSEMBLY HALL and HOTEL—Salvation Army, 122 West 14th St., had preliminary sketches made assembly hall and hotel, 126 West 14th St. $2,000,000. Engineer and architect not selected. Noted July 15, 1926.

N. Y., New York—BUS TERMINAL—Solomon & Kahn, 475 5th Ave., having preliminary plans prepared by Gronenberg & Leuchtag, 1385 Bway., 7 story, 75 x 200 ft. bus terminal, West 38th St. near 9th Ave. $650,000.

N. Y., New York — HOSPITAL — New York Hospital and Cornell Medical College Assn., E. W. Sheldon, pres., 46 Park Ave., having plans prepared by Coolidge, Shepley, Bulfinch & Abbott, 1 Court St., Boston, Mass., 10 story hospital, Avenue A, Exterior, 69th and 70th Sts.

N. Y., New York—LOFT—Two Hundred Forty-Five West 29th Street Corp., 571-8th Ave., having plans prepared by J. Eckman, 156 East 42nd St., 17 story, 79 x 89 ft. loft, 241 West 29th St. $425,000.

N. J., Hoboken—GARAGE—Model Garage, Inc., 208 Clinton St., plans 2 story, rein.-con., brick and steel, plain foundation, 208 Clinton St. $150,000. Private plans.

N. J., Newark — APARTMENT and STORE—Roman Constr. & Realty Co., 146 Carrol St., Paterson, having plans prepared by Lilien & Lilien, 155 West 72nd St., New York City, 3 story and basement, 75 x 150 ft., brick and steel, plain foundation, Bway. and Halleck St., here. $150,000.

N. J., Newark — APARTMENT — J. Wiener, 187 Chancellor Ave., having plans prepared by A. Silberstein, 60 Park Pl., 5 story and basement, 75 x 100 ft., brick and steel, plain foundation, 240 Broad St. $150,000.

N. J., Newark — APARTMENT and STORE — Lindsley Holding Corp., c/o Meyers, Bigelow & Shanley, archts., 24 Walnut St., having plans prepared 5 story and basement, brick and steel, plain foundation, Clinton Ave. $150,000.

N. J., Newark—APARTMENT—G. and L. Constr. Co., 141 North 9th St., having plans prepared by M. J. Nadel, 32 Hill St., 3 story and basement, 100 x 150 ft., brick and steel, plain foundation, 10-20 Devins St. $150,000.

N. J., Newark—APARTMENT—Owner, c/o A. F. Amodio, archts., 45 Branford Pl., having plans prepared 3 story and basement, 75 x 115 ft., brick and steel, plain foundation, Myrtle Ave. $150,000.

N. J., Newark — APARTMENT — Schwartz & Cohen, 49 Goodwin Ave., having revised plans prepared by R. Botelli, 45 Branford Pl., 5 story and basement, brick and steel, plain foundation, 244 Roseville Ave. $150,000. Noted Oct. 20.

N. J., Newark—APARTMENT—Cioniro Constr. Co., c/o N. Harris, archt., 20 Branford Pl., having plans prepared 4 story and basement, brick and steel, plain foundation, 52 Clinton Pl. $150,000.

N. J., Newark—APARTMENT—M. Gray & J. Krubant, 77 Hedden Terrace, having plans prepared by H. F. Clark, 38 Clinton St., 5 story and basement, 130 x 185 ft., brick and steel, plain foundation, 2-6 Renner Ave. $275,000.

N. J., Newark — APARTMENT and STORE — Wah Shang, 196 Mulberry St., had plans prepared by B. Cirlincione, 229 South Orange Ave., 4 story and basement, brick and steel, plain foundation, Mulberry St. $150,000.

N. J., Orange—APARTMENT—M. T. Realty Co., 810 Broad St., Newark, having plans prepared by H. F. Clark, 38 Clinton St., Newark, 4 story and basement, 95 x 150 ft., brick and steel, plain foundation, 250 Washington St., here. $175,000.

N. J., Red Bank—HOTEL—N. Harris, archt., 20 Branford Pl., Newark, soon lets contract general contract 9 story and basement, 124 x 400 ft., brick and steel, plain foundation, Riverside Ave., for Red Bank Hotel Co. $650,000. Noted Sept. 15.

N. J., Trenton—RESTAURANT—Childs Restaurant Co., 200 5th Ave., New York City, having plans prepared by W. Van Alen, 331 Madison Ave., 3 story, 31 x 110 ft., brick and steel, 12-14 East State St., here. $150,000.

N. J., Weehawken — FERRY TERMINAL—West Shore R.R. Co., c/o New York Central R.R. Co., 466 Lexington Ave., New York City, F. B. Freeman, ch. engr., plans replacing present terminal with steel and copper terminal foot Pershing Rd., and extneding ferry slips 65 ft. toward river, here. $500,000.

N. J., Weehawken — MUNICIPAL — Bd. Town Council, E. W. Granert, chn. Building com., 309 Park Ave., having sketches made by W. Weir, archt., 254 Summitt Ave., Union City, 3 story and basement, brick and steel, plain foundation, Park Ave. $200,000. Noted June 23.

Pa., Jeannette—THEATRE—Manos Enterprise Assn., c/o M. Manos, Greensburg, having plans prepared by L. H. Lampert & Son, 1054 Mercantile Bldg., Rochester, N. Y., 1 story, mezzanine and basement, 40 x 122 ft., brick and hollow tile, Clay Ave. $200,000.

Pa., Phila. — BUS TERMINAL — Delaware Bridge Bus Assn., c/o H. S. Shertz, Liberty Bldg., plans 148 x 204 ft. bus terminal, 13th and Filbert Sts. $3,000,000. Engineer and architect not selected.

Pa., Phila.—THEATRE, ARCADE and STORE—All-Ken Co., c/o O. R. Parry, archt., 1524 Sanson St., having plans prepared rein.-con. and brick, 2,200 seating capacity, plain foundation, Germantown and Hunting Park Aves. $500,000.

Pa., Rosemont—THEATRE and STORE—A. C. Bieber, archt., 1520 Locust St., Phila., preparing plans 1 story and basement, 75 x 164 ft., brick and steel, 2,000 seating capacity, plain foundation, Rose Lane and Lancaster Ave. here. Owners name withheld.

Del., Wilmington—Y. M. C. A. raised $754,000 new building. Architectural Bureau, National Council Y. M. C. A., 2 West 45th St., New York City, consult. archts.

Md., Baltimore — APARTMENT — Alto-Crest Apartments, c/o H. D. Bennett, archt., 2114 Allendale St., had plans prepared 7 story and basement, 105 x 113 ft., concrete and brick, Bateman Ave. and Hilton St. $400,000.

Md., Baltimore—APARTMENT—H. D. Bennett, archt., 2114 Allendale St., soon lets contract 7 story and basement, 105 x 113 ft. concrete and brick, Bateman Ave. and Hilton St., for Alto-Crest Apartments, c/o architect.

Miss., Hattiesburg — HOTEL — Walters Inn having plans prepared by N. W. Overstreet, Jackson, 6 story hotel. $250,000.

Miss., McComb—HOTEL—X. A. Kramer having plans prepared by C. H. Lindsley, Jackson, 7 story hotel. $500,000.

Miss., Vicksburg—HOTEL—A. H. Alvis, Jackson, plans hotel, here. $500,000. N. W. Overstreet, Jackson, archt.

O., Akron—ARCADE—H. J. Wiener, 10 South Howard St., takes bids about Dec. 2, 2 and 5 story, brick, terra cotta and steel arcade between Howard and Canal Sts. $200,000. A. Breverman, 610 Allman Bldg., Cleveland, archt.

O., Cincinnati—GARAGE—Bway. Garage, Inc., 521 Sycamore St., having plans prepared by Rendigs, Panzer & Martin, 609 Southern Ohio Bank Bldg., 7 story and basement, 150 x 200 ft., brick and rein.-con., plain foundation, Bway. $500,000.

O., Youngstown — HOSPITAL—Youngstown Hospital Assn. takes bids in Spring several units hospital, Gypsy Lane. $1,500,000.

Mich., Detroit—APARTMENT—Miller & Hodges, McKerchey Bldg., having plans prepared by H. C. Stevens, Bway. Exchange Bldg., 4 story and basement, brick and steel, plain foundation, Burlingame Ave. $275,000.

Ill., Chicago — ARMORY, etc. — South Park Comrs., 5700 Cottage Grove Ave., having sketches made by Perkins, Chatten & Hammond, 160 North La Salle St., memorial square with 273 ft. shaft, 120 x 320 ft. armory, with 8,500 seating capacity hall, 52nd St. and Washington Park, for 7th Regiment Illinois Natl. Guard. $1,500,000.

Ill., Chicago — APARTMENT—Marshall Field Estate, c/o A. J. Thomas, archt., 2 West 46th St., New York City, having preliminary plans prepared 5 story, 2 square block, brick, plain foundation, Hudson Ave. Sedgwick, Conners and Blackhawk Sts., here. $4,000,000.

Neb., Lincoln—CAPITOL—Capitol Comn., G. McMullen, chn., takes bids in January, completing state capitol, 15th St. G. Goodhue Associates, 2 West 47th St., New York City, archts. Noted June 23.

Minn., Minneapolis—OFFICE—Chamber of Commerce, J. G. McHugh, secy., 123 Chamber of Commerce Bldg., having plans prepared by Bertrand & Chamberlin, 616 Northwestern Bank Bldg., 6 or 7 story, L-shaped, rein.-con., brick and stone addition, 4th Ave. S. and 3rd St. $600,000.

Mo., St. Louis—APARTMENT—A. H. Winkelmeyer, 2602 South Grand Blvd., takes bids in spring 7 story and basement, rein.-con., brick and stone, Grand Blvd. and Sidney St. $350,000. J. L. Bowling, Inc., 1196 Arcade Bldg., archts. Noted May 19.

Mo., St. Louis—Y. M. C. A., L. Haworth, genl. secy., having preliminary sketches made by Architectural Bureau, National Council Y. M. C. A., 2 West 45th St., New York City, for West End Branch, $600,000; also South Side Branch, approximately $500,000.

Tex., Austin — APARTMENT — Enfield Realty & Home Building Co., 205 West 7th St., having plans prepared by Gusecke & Harris, 207 West 7th St., 6 story and basement, U-shaped, brick, stone and rein.-con., in Enfield addition. $280,000.

Tex., Ft. Worth—THEATRE and OFFICE—W. C. Hedrick, archt., 1st Natl. Bank Bldg., soon takes bids 18 story, rein.-con., brick, steel and stone, West 7th and Lamar Sts., for Ft. Worth Properties Co., c/o J. H. Jones, Houston. $1,000,000.

Calif., Chino — CLUBHOUSE — Los Serranos Country Club Estates having plans prepared by R. B. Stacy-Judd, 6030 Hollywood Blvd., Los Angeles, rebuilding 2 story, rein-con. main building. $500,000-$750,000.

Calif., Long Beach—APARTMENT—H. H. Lockridge, archt., Jergins Trust Bldg., preparing plans 6 story and basement, steel, 1st and Daisy Sts. $250,000. Owner's name withheld.

Calif., Los Angeles—APARTMENT—A. T. Mayer, 4169 Arlington St., having plans prepared by W. L. Campbell, 911 Title Insurance Bldg., 4 story, 50 x 140 ft., brick and stone, Crenshaw Blvd. and Country Club Dr. $150,000.

Calif., Los Angeles — DETENTION HOME—Los Angeles, having new plans prepared by K. Muck, 3200 Highland Ave., 2 story, 60 x 190 ft. main building, with 50 x 50 ft. wing, 2 story, 35 x 162 ft. each girls and boys dormitories with 10 x 40 ft. wings, etc. incl. hospital, boys dormitory, etc. for detention home, Mission Rd., Castle Lake and Henry Sts. Noted May 12.

Calif., San Francisco—APARTMENTS—Lincoln Investment Co., c/o A. H. Larsen, archt., 447 Sutter St., plans apartment, 16th Ave. and Lincoln Way, $180,000; and apartment, Pine St. near Hyde St., $150,000, both 6 story and basement, concrete and steel.

Calif., San Francisco—APARTMENT—Marian Realty Co., 110 Sutter St., having plans prepared by D. D. Stone, 354 Hobart St., Oakland, 8 story and basement, steel and concrete, Pacific Ave. and Laguna St. $600,000.

Calif., San Francisco—THEATRE, HOTEL and STORE—M. and L. Graf, 1179 Market St., having plans prepared 18 story and basement, incl. swimming pool, gymnasium, etc., Turk and Jones Sts. $5,000,000. H. W. Abrahams, 495 14th Ave., engr.

Ont., Hamilton—HOSPITAL—Hamilton General Hospital Bd., Barton St. E., having plans prepared by G. T. Evans, 6 Hughson St., 5 story public ward addition, 4 story female help building, steam plant addition, and fireproofing Queen Alexandria wing, all foregoing rein.-con., brick and steel, plain foundations, Barton St. E. $700,000.

Ont., Ottawa—HOSPITAL—City plans hospital for incurables, Carling Ave. $155,000. Engineer and architect not selected.

Ont., Toronto—APARTMENT—H. Falk, 23 Woodside Ave., having plans prepared by Baldwin & Green, 31 Bloor St. E., 6 story and basement, rein.-con., brick, steel and stone, plain foundation, Avenue Rd. $1,000,000.

Ont., Toronto—MEDICAL OFFICE—R. Hunter, Natl. Bldg., having plans prepared by N. A. Armstrong Co. Ltd., 7 King St. E., 12 story and basement, 100 x 125 ft., rein.-con., brick and steel, plain foundation, College St. near Bay St. $1,000,000.

Ont., Toronto—OFFICES—King-Adelaide Holding Corp., H. F. Williams, King Edward Hotel, having plans prepared by C. B. Dolphin, 10 Leader Lane, two 27 story, and one 40 story, rein.-con., brick and steel plain foundations, between King and Adelaide Sts. $30,000,000.

Ont., Toronto—OFFICE—Yolles & Rotenberg, Federal Bldg., having plans prepared by Chapman & Oxley, Northern Ont. Bldg., 20 story and basement, 63 x 90 ft., rein.-con., brick, steel and stone, plain foundation, Bay and Richmond Sts. $1,000,000.

Ont., Toronto—OFFICE and GARAGE—D. E. Bennett, Temple Bldg., having plans prepared 15 to 20 story and basement, 107 x 186 ft., rein.-con., brick, steel, stone and terrazzo, plain foundation, York and King Sts. $2,000,000. Engineer and architect not selected.

Bids Desired

Mass., Boston — APARTMENT — See "Contracts Awarded."

Mass., Lynn — CLUB — Boys Club of Lynn, F. A. Strong, supt., 189 Liberty St., taking bids 3 story and basement, 75 x 130 ft., brick and stone, plain foundation, 11-15

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Buildings—Commercial (Continued)

Pleasant St. $150,000. Sanborn & Weed, Lynn Item Bldg., archts. Noted Nov. 3.

R. I., Westerly—FIRE STATION—Town, c/o C. W. Campbell, ch. building comn., taking bids 2 story and basement, 75 x 105 ft., rein.-con. and granite, plain foundation, Broad St. $150,000. G. E. Robinson, 80 Federal St., Boston, Mass., archt.

N. Y., Marcy—HOSPITAL—Dec. 21, by Dept. Mental Hygiene, Albany, constructing, for Buildings 1, 2, 3, 4, 10 and 21, also new tunnels at Utica State Hospital, Marcy Div., here. S. W. Jones, Capitol, Albany, state archt.; adv. E. N.-R. Dec. 1. Noted Oct. 27.

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. J., Bergenfield—APARTMENT—C. G. Eicholz, archt., 960 Bergenline Ave., Union City, taking bids general contract 4 story and basement, 50 x 100 ft., brick and steel, plain foundation, Washington Ave., here, for One Hundred Fourteen South Washington Avenue Holding Co., W. Krauze, pres., Harring St., here. $150,000.

N. J., Bloomfield—APARTMENT—See "Contracts Awarded."

N. J., Camden—BANK and OFFICE—Dec. 9, by First Natl. Bank & Trust Co., W. E. Bennett, chn. building com., 2 Market St., 3 story, mezzanine and basement, 79 x 124 ft. rein.-con., brick and steel, concrete and wood pile foundation, Bway. and Cooper St., Simon & Simon, 249 Juniper St., Phila., Pa., archts. Noted Nov. 3.

N. J., Irvington (Sta. Newark) — THEATRE, STORE and APARTMENT—See "Contracts Awarded."

N. J., Jersey City—GARAGE—A. Davis, archt., 140 Montgomery St. taking bids general contract 1 and 2 story and basement, 200 x 300 ft., rein.-con., brick and steel, plain foundation, Mill Rd. from Mercer to Wayne Sts., for H. Byrne, 392 Mercer St. Archts. est. $150,000. Noted Oct. 20.

N. J., Orange — APARTMENT — See "Contracts Awarded."

N. J., Orange — HOSPITAL, NURSES HOME—Crow, Lewis & Week, archts., 200 5th Ave., New York City, taking bids general contract 5 story and basement, 95 x 130 ft., brick and steel, plain foundation, Essex and Henry Sts., here, for Orange Memorial Hospital, L. D. Baldwin, in charge, Essex and Henry Sts. $150,000. Noted Apr. 21.

N. J., Passaic — APARTMENT — See "Contracts Awarded."

N. J., Union City—APARTMENT—See "Contracts Awarded."

Miss., Gulfport — JAIL and COURT HOUSE—Dec. 5, by Bd. Supervs., Harrison Co., c/o E. McManus, clk., Court House, repairing jail and courthouse, also heating and plumbing for courthouse; adv. E. N.-R. Dec. 1.

O., Cleveland—APARTMENT—M. Margolin, 1489 East 106th St., taking bids 4 story and basement, 68 x 104 ft., brick and steel, East 132nd St. $150,000. M. Weis, 617 Union Bldg., archt.

Ill., Chicago—APARTMENT—M. L. Bein, archt., 64 West Randolph St., taking bids 8 story and basement, 82 x 150 ft., rein.-con., brick and stone, 1117-1123 North Dearborn St., for Syndicate, c/o architect. $1,000,000.

O., Cleveland — APARTMENTS — A. E. Emerman, 502 Ulmer Bldg., taking bids two 2 story and basement, 37 x 99 ft. brick apartments. $150,000. M. Weis, 617 Union Bldg., archt.

O., Cleveland—STORE and APARTMENT—L. Cahn, 2099 Lamberton Rd., Cleveland Heights, taking bids 4 story and basement, brick, Clifton Blvd. $350,000. A. F. Janowitz, 811 Prospect Ave., archt. Noted Jan. 13.

Ind., Indianapolis—HOTEL—W. E. Bayfield, Hotel Majestic, 29 Quincy St., Chicago, Ill., taking bids 8 story and basement, rein.-con., brick and steel, Market and Capitol Aves. here. $250,000. W. E. Russ, Meridian Life Bldg., archt. Noted June 23.

Ill., Chicago — APARTMENT — W. C. Bannerman & Co., 77 West Washington St., taking bids 24 story and basement, 50 x 187 ft., rein.-con., brick, steel and stone, wood pile foundation, 1430 Lake Shore Dr. $2,000,000. R. C. De Goyler & Co., 307 North Michigan Ave., archts. Noted Oct. 6.

Ill., Chicago—APARTMENT—J. Cohen & Co., archts., 160 North La Salle St., taking bids masonry contract 7 story and basement, 50 x 125 ft., rein.-con., brick and terra cotta, 5036 Sheridan Rd., for Syndicate, c/o M. S. Willens, 160 North La Salle St. $400,000.

Kan., Wichita—OFFICE—See "Contracts Awarded."

Mo., St. Louis—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles—HOTEL, THEATRE and APARTMENT — See "Contracts Awarded."

Calif., Los Angeles—PROFESSIONAL—J. and D. B. Parkinson, archt., Title Insurance Bldg., taking bids 13 story and basement, 120 x 150 ft., steel, Wilshire Blvd., for Los Angeles Co. Medical Building Corp., W. Morrison, pres., Pacific Mutual Bldg.

Calif., San Francisco—APARTMENT—See "Contracts Awarded."

Calif., San Pedro—CITY HALL—See "Contracts Awarded."

Ont., Toronto — GARAGE and SHOW ROOM — M. Brown, archt., Confederation Life Bldg., taking bids general contract 3 story and basement, 150 x 150 ft., rein.-con., brick and steel, plain foundation, Gerrard St. E., for A. D. Gorrie & Co., 354 Victoria St. $200,000. Noted Nov. 17.

Contracts Awarded

Mass., Boston—APARTMENT—M. Peraner, 96 Beals St., Brookline will build (4 unit) 3 and 4 story and basement, brick plain foundation. $160,000. Work will be done by separate contracts. Eisenberg & Feer, 46 Cornhill, archts.

Mass., Brighton (Boston P. O.)—APARTMENT—J. H. Fitzgerald, 24 Gerald Rd., 4 story and basement, brick and stone, plain foundation, 2031-2039 Commonwealth Ave., to H. I. Fitzgerald, 11 Gerald Rd. Archts. est. $150,000 or more.

Mass., Brighton (Boston P. O.)—THEATRE and STORE—Fitzgerald Corp., 11 Gerald Rd., Brighton, 1 story and basement, 90 x 250 ft., rein.-con., brick and steel, plain foundation, 325 Washington St., to Frederick Co., 11 Gerald Rd. Archts. est. $150,000.

Mass., Cambridge (br. Boston)—STORE and OFFICE—Estate of J. H. Corcoran, 587 Massachusetts Ave., 2 story and basement, 90 x 190 ft., brick and stone, plain foundation, Massachusetts Ave. and Central Sq., to J. J. Powers Co., 33 Mystic St. Archts. est. $150,000. Noted Nov. 3.

Mass., Newton—STORE, OFFICE and BOWLING ALLEYS—Craigie Real Estate Trust, c/o H. W. Morton, archt., 52 Institution Ave., will build 2 story and basement, 125 x 150 ft., brick and stone, concrete foundation, Washington and Beacon Sts. $150,000. Noted Dec. 1. Work will be done by separate contracts.

Mass., Revere—THEATRE, etc.—P. Barr, 58 Walnut St., Roxbury, 2 story and basement, brick and steel, plain foundation, Shirley St. and Walnut Ave., here, to C. I. Smith, 30 Whitney Ave., New Haven, Conn., $150,000 cost plus percentage basis.

Mass., Scituate—BANK—Rockland Trust Co., H. T. Fogg, 286 Main St., Rockland, 1 story and basement, rein.-con., brick and steel, plain foundation, Front St., here, to C. C. Temple Co., 99 Chauncy St., Boston. Archts. est. $150,000. Noted Nov. 10.

R. I., Lonsdale (Ind. br. Pawtucket) — TEMPLE—Unity Lodge 34, 2 story and basement, brick and stone, plain foundation, to Eastern Constr. Co., 335 North Main St., Woonsocket. Archts. est. $150,000. Noted Nov. 3.

Conn., New Haven—LODGE and CLUB—Lodge of Elks, S. E. Hoyt, 195 Church St., 5 story, 60 x 165 ft., brick and steel, Crown St., to Abbadessa & Bros., 168 Grand Ave., New Haven. Archts. est. $300,000. Noted Oct. 20.

N. Y., New York—APARTMENT—B. M. House & Son, Inc., 17 West 96th St., will build 15 story apartment, 229 East 79th St. $900,000. Work will be done by separate contracts. Ellis, Aarson & Heidrick, 25 West 43rd St., archts.

N. Y., New York — APARTMENT — Corporation, c/o Irons & Hoover, 101 Park Ave., will build 15 story and basement, 68 x 102 ft. apartment, 25 East End Ave. $630,000. Work will be done by separate contracts. Cross & Cross, 385 Madison Ave., archts.

N. Y., New York—APARTMENT—G. and L. Impvt. Corp., 1281 Boscobel Ave., will build 6 story, 110 x 142 ft., brick, Gouverneur and Van Cortlandt Aves., $250,000; and 6 story, 87 x 150 ft. brick on Gouverneur Ave., $150,000. Work will be done by separate contracts. C. S. Clark, c/o owner, archt.

N. Y., New York — APARTMENT — Namalc Realty Co., 152 West 42nd St., will build 15 story and basement, 100 x 125 ft., brick and steel, plain foundation, West End Ave. and 93rd St. $800,000. Work will be done by separate contracts. Sugarman & Berger, 345 Madison Ave., archts. C. Mayer, 31 Union Sq., engr.

N. Y., New York—APARTMENTS—Two Thousand Eight Hundred University Ave. Corp., 1841 Bway., will build three 5 story and basement, 88 x 116 ft., brick, Holland Ave. near Burke Ave. $525,000. Work will be done by separate contracts. S. J. Kessler, 529 Courtland Ave., archt.

N. Y., New York—APARTMENT—Four Hundred Forty West 34th St. Corp., S. Mayer, 31 Union Sq., 16 story and basement, 78 x 100 ft., brick and steel, 434-444 West 34th St., to J. H. Taylor Constr. Co., 31 Union Sq. Archts. est. $650,000.

N. Y., New York—APARTMENT HOTEL—Three East Sixty-Sixth Street Corp., c/o J. F. Whitman, archt., 551 5th Ave., general contract 15 story and basement, 34 x 90 ft., apartment hotel, 3 East 66th St., to Natatorium Constr. Co., 551 5th Ave. Archts. est. $546,000.

N. J., Bloomfield — APARTMENT — Cleremont Co., Inc., 327 Renner Ave., Newark, will build 5 story and basement, 85 x 155 ft., brick and steel, plain foundation, 165 Franklin St. $175,000. Work will be done by separate contracts. E. V. and C. F. Warren, Essex Bldg., Newark, archts. Noted Nov. 24.

N. J., East Orange—APARTMENT—S. Goldfarb & S. P. Serota, Inc., 1060 Broad St., Newark, will build 4 story and basement, 80 x 130 ft., brick and steel, plain foundation, Elmwood Ave. and Oak St., here. $150,000. Work will be done by separate contracts. R. Krueger, 60 Branford Pl., Newark, archt.

N. J., Irvington (Sta. Newark) — THEATRE, STORE and APARTMENT—Goldbloom Realty Co., L. Goldfarb, pres., 837 Broad St., Newark, will build 2 story and basement, 100 x 195 ft., rein.-con., brick and steel, plain foundation, Chancellor and Union Aves. $150,000. Work will be done by separate contracts.

N. J., Newark—OFFICE—W. Lehman, archt., 972 Broad St., general contract 4 story and basement, 32 x 150 ft., brick and steel, plain foundation, 56 Park Pl., to E. M. Waldron & Co., Inc., 27 Central Ave., for Feist & Feist, 738 Broad St. Archts. est. $150,000. Noted Nov. 10.

N. J., Orange — APARTMENT — M. T. Realty Co., 810 Broad St., Newark, will build 4 story and basement, 100 x 110 ft., brick and steel, plain foundation, 264 Washington St., here. $150,000. Work will be done by separate contracts. H. F. Clark, 38 Clinton St., Newark, archt.

N. J., Orange—APARTMENT—Security Investment Realty Co., 17 Academy St., Newark, will build 4 story and basement, 90 x 115 ft., brick and steel, plain foundation, 460 Central Ave. $200,000. Work will be done by separate contracts. D. J. Scrocco, 60 Park Pl., Newark, archt.

N. J., Passaic — APARTMENT — Burg Bros., 171 Howard St., will build 4 story and basement, 80 x 125 ft., brick and steel, plain foundation, 98-104 Passaic St. $200,000. Work will be done by separate contracts. Preiskel & Skvarla, 591 Main Ave., archts. Noted Nov. 10.

N. J., Passaic—APARTMENT—Passaic Securities Co., 631 Main Ave., will build 3 story and basement, 90 x 135 ft., brick and steel, plain foundation, Summer St. $150,000. Work will be done by separate contracts. Preiskel & Skvarla, 591 Main Ave., archts. Noted Nov. 10.

N. J., Passaic—APARTMENT—L. Stein, 231 Lexington Ave., will build 4 story and basement, 85 x 134 ft., brick and steel, plain foundation, 190-192 Lexington Ave. $225,000. Preiskel, & Skvarla, 591 Main Ave., archts. Noted Nov. 10.

N. J., Union City—APARTMENT—S. DeSena, Anderson Ave., Fairview, will build 5 story and basement, 50 x 100 ft. brick and steel, plain foundation, Palisade Ave. $150,000. Work will be done by separate contracts. P. O. Simone & Co., Inc., 100 Sip Ave., Jersey City, archts.

Pa., Newell—Pittsburgh & Lake Erie R.R. Co., A. R. Mayner, asst. vice pres. and ch. engr., Pittsburgh, general contract 4 story and basement, approximately 80 x 100 ft., concrete, brick and steel Y. M. C. A. here, to Rust Eng. Co., 311 Ross St., Pittsburgh. Archts. est. $150,000. Noted Nov. 3.

Pa., Phila.—APARTMENT—W. Freihofer, 20th and Indiana Sts., 4 story and basement, 110 x 178 ft., brick and steel, plain foundation, Orange and York Sts., to S. Brenner, 5936 Ogontz St. Archts. est. $200,000.

Pa., Phila.—BANK and OFFICE—Ritter & Shay, archts., Packard Bldg., 4 story and basement, 77 x 160 ft., rein.-con., brick and steel, plain foundation, Broad and Stiles Sts., to Murphy & Quigley, 1518 Sansom St., for Broad Street Trust Co., c/o S. E. Kraus, Juniper and Walnut Sts. Noted Oct. 13.

Pa., Pittsburgh—WAREHOUSE and OFFICE—Iron City Electric Co., 436 7th St., general contract 5 story and basement, brick, concrete and steel, 7th Ave., to W. F. Trimble & Sons, 1719 Penn Ave. Archts. est. $200,000.

Buildings—Commercial (Continued)

Md., Baltimore—APARTMENT—Baltimore Apartments Co., 4 story and basement, 100 x 115 ft., brick and steel, 2905 North Charles St., to H. M. Reinhart, Calvert Bldg., $300,000. Noted Nov. 17.

Tenn., Knoxville—THEATRE—Graven & Mayger, archts., 180 North Michigan Ave., Chicago, Ill., 3 story, brick and steel, here, to George A. Fuller Co., 949 Bway., New York City, for Tennessee Enterprises, Inc. Archts. est. $600,000. Noted Oct. 27.

O., Barberton—STORE—Weisberger Co., Inc., 4 story and basement, brick, steel and concrete, Tuscarawas and 4th Sts., to Bernard Constr. Co., Barberton, $150,000.

Ind., South Bend—OFFICE—W. Happ, 224 Sherland St., general contract rein.-con., brick and steel, Michigan and Jefferson Sts., to H. G. Christman, 306 South Notre Dame St. Archts. est. $200,000. Noted Nov. 17.

Mich., Detroit — CLUB HOUSE — Embassy Club, 826 Buhl Bldg., 16 story and basement, 100 x 134 ft., rein.-con., brick and steel, plain foundation, Temple Ave., to C. S. Barry Co., 2631 Woodward Ave. Archts. est. $2,000,000. Noted Apr. 7.

Ill., Chicago—CLUB—Lincoln Athletic & Beach Club, c/o W. T. Bailey, 3621 South State St., general contract 8 story and tower, 50 x 125 ft., incl. outside swimming pool, glass enclosed, etc., 4427 South Parkway, to Windham Bros. Contg. Co., 4601 South Parkway. Archts. est. $600,000.

Ill., Chicago—H. Berlin & Swern, archts., 19 South La Salle St., general contract 10 and 12 story and basement, 150 x 150 ft. shaped, Dearborn and Oak Sts., to R. F. Wilson Co., 1851 Elston Ave., for Y. W. C. A., 59 East Monroe St. Archts. est. $1,000,000. Noted Oct. 2.

Ill., Downers Grove—THEATRE, STORE and OFFICE—E. T. Behrens, archt., 605 North Michigan Ave., masonry contract 2 story, 94 x 198 ft., brick and stone, here, to S. Haugan, 2730 Coyle St., Chicago; rein.-con., to E. Otto, Downers Grove; carpentry, to L. Schultz, Downers Grove; rein.-con. slabs, to Federal Tile Co., 104 South Michigan Ave., Chicago, structural steel, to Sprague Iron Wks., 4400 Addison St., Chicago, for Du Page Building Corp. Archts. est. $150,000. Noted Nov. 10.

Ill., Oak Park—APARTMENT—N. B. Schreiber, c/o Alexander & Brandt, archts., 64 East Jackson Blvd., Chicago, masonry contract 3 story and basement, 141 x 150 ft., Washington Blvd., here, to J. Busa & Sons, Inc., 4716 North Tallman Ave., Chicago; plumbing, to J. J. Daly, 231 East Illinois St., Chicago; heating, to Economy Plumbing & Heating Co., 1308 South Crawford Ave., Chicago; sheet metal, to United Sheet Metal Co., 3143 5th Ave., Chicago; and carpentry work, to A. L. Richey, 3826 West End Ave., Chicago. Archts. est. $350,000. Noted Oct. 27.

Ia., Marshalltown — HOTEL — Eppley Hotel Co., Hotel Fontenel, Omaha, Neb., 8 story, 125 room, rein.-con., brick and steel, here, to H. L. Stevens & Co., 30 North Michigan Ave., Chicago, Ill. Archts. est. $500,000. Noted Nov. 17.

Kan., Wichita—OFFICE—G. H. Siedhoff Constr. Co., Broadview Hotel Building, will build 6 story and basement, 100 x 300 ft., rein.-con., brick and stone, West Douglas St., by day labor. $400,000.

Mo., St. Louis—APARTMENT—A. Stein, 7003 South Grand Blvd., will build 3 story and basement, 110 x 132 ft., brick, stone and terra cotta, rubble stone foundation, Bates and Grace Sts. Work will be done by separate contracts. E. E. Christopher, 1221 Louderman Bldg., archt.

Mo., St. Louis—OFFICE—William Fox Film Co., 55th St. and 10th Ave., New York City, 4 story and basement, rein.-con., brick and steel addition, Washington Blvd. near Grand Blvd., here, to Aronberg & Fried, Inc., 21 East 40th St., New York City. Archts. est. $200,000.

Okla., Tulsa—OFFICE—A. M. Atkinson, archt., Midcontinental Bldg., 10 story and basement, 50 x 140 ft., rein.-con. and brick, plain foundation, Boulder St., to Shallenberger Constr. Co., 1631 East 6th St., for Oklahoma Natural Gas Co., 117 West 4th St. $470,000. Noted Nov. 17.

Calif., Los Angeles—APARTMENTS—J. H. Miller, 317-318 Douglas Bldg., will build 87 x 155 ft. apartment, Vermont and Ambrose Sts. $250,000, 80 x 140 ft. apartment, 41st Pl. and Figueroa St. $325,000, apartment, 1807 North Wilton Pl. to exceed $150,000, 50 x 120 ft. apartment, 9th and Berendo Sts. $175,000, and 60 x 240 ft. apartment, Vermont and New Hampshire Aves. $400,000, all foregoing 5 story, rein.-con. and steel. Work will be done by separate contracts. Private plans.

Calif., Los Angeles—HOTEL, THEATRE and APARTMENTS—J. H. Miller (owner, builder and archt.), 317-318 Garland Bldg., will build 13 story hotel and theatre, North Western Dist., to exceed $1,000,000; and two 5 story 176 x 210 ft. apartments, and one 2 story garage, rein.-con., Country Club Dr. and Norton Ave. $825,000.

Calif., San Francisco—APARTMENT—J. A. Pasqualetti, 785 Market St., will build 6 story and basement, concrete, Greenwich St. near Van Ness Ave., by, day labor. $175,000.

Calif., San Francisco—MERCANTILE—Butler Bros., 495 Bway., New York City, 7 story and basement, rein.-con., Fremont and Howard Sts., to Macdonald & Kahn, Financial Center Bldg., approximately $700,000.

Calif., San Pedro—CITY HALL—Dept. Pub. Wks. will build 7 story and basement, 100 x 116 ft., steel and rein.-con., by day labor. $500,000. Former bids rejected.

Buildings—Industrial

Proposed Work

Mass., Boston—BOILER HOUSE—City, Hospital Dept., had revised plans prepared by J. H. Ritchie & associates 250 Stuart St., altering and constructing 1 story, brick and steel addition, plain foundation, Albany St. $200,000. Former contract rescinded. R. D. Kimball & Co., 6 Beacon St., engrs. Noted Aug. 11.

Mass., Lynn—BOILER HOUSE—Lynn Gas & Electric Co., 90 Exchange St., having plans prepared 1 story, 65 x 90 ft., rein.-con., brick and steel, plain foundation, off Broad St. To exceed $40,000. Stone & Webster, 49 Federal St., Boston, engrs.

Conn., Norwalk — GARAGE, REPAIR SHOP and SHOWROOM—Vaast Bros., 17 Chestnut St., had plans prepared 1 story, 105 x 180 ft., rein.-con., brick and steel, Connecticut and Glenwood Aves. $75,000. Private plans.

N. Y. New York — POWER PLANT — United Electric Light & Power Co., 130 East 15th St., having plans prepared power plant addition, incl. Brown-Boveri generator, two 160,000 kw. Westinghouse generators, for high and low pressure on same shaft for Hell Gate Plant. $15,000,000-$20,000,000. T. E. Murray, 55 Duane St., engr.

N. Y., New York—POWER PLANTS, etc. —New York Edison Co., 15th St. and Irving Pl., having plans prepared power plant addition, incl. single shaft 160,000 kw. General Electric generator, East River and 14th St., building only $200,000, total $4,000,000, and tie station, incl. two 40,000 kw. frequency chambers, transformers and circuits breakers, Water Side plant, foot 40th St., building only $500,000, total $3,000,000, T. E. Murray, 55 Duane St., engr. on above; also takes bids after Dec. 8 (selected list of contractors), sub-station addition, 6th St., building only $250,000, takes bids in January (selected list of contractors), sub-station, incl. a.c. type distributing station, Tibbetts Ave. and 238th St., $150,000, and takes bids in March (selected list of contractors), sub-station, Dey and Washington Sts., to exceed $150,000. W. Whitehill, 709 6th Ave., archt. on above.

Pa., Etna (mail Pittsburgh)—FACTORY—Etna Forge & Bolt Co., Commonwealth Bldg., Pittsburgh, having plans prepared 1 story, 50 x 200 ft., brick and steel addition, here. $40,000. Private plans.

Pa., Norristown—FACTORY and WAREHOUSE—Norristown Magnesia & Asbestos Co., having plans prepared 1 story, 115 x 280 ft., factory and warehouse. $100,000. Private plans.

W. Va., Wheeling — FACTORY — A. Fokker Aircraft Corp., c/o L. Spencer, 383 Madison Ave., New York City, plans commercial airplane factory, here. $1,000,000.

Miss., Wesson—FACTORY—Kraft Cheese Co., 400 Rush St., Chicago, Ill., soon lets contract 1 story, 60 x 120 ft., with 27 x 30 ft. intake wing, and 25 x 36 ft. boiler room, all concrete and brick, here. Private plans.

La., Kaplan—RICE MILL—A. Bonnin having plans prepared 4 story, rein.-con., brick and steel, plain foundation. $150,000. J. W. Embry, Crowley, engr.

Tenn., Memphis—PLANT and WAREHOUSE—Shelby Electric Co., 392 South Main St., had plans prepared by E. L. Harrison, Fidelity Bank Bldg., 1 story, 75 x 100 ft., face brick, Iowa and Michigan Sts. $40,000.

O., Columbus—POWER HOUSE—C. E. Steel, secy. Bd. Trustees Ohio State University, takes bids early in 1928, 1 2 x 120 ft., brick and steel addition, 46 ft. high, on Ohio State University campus. $160,000. W. C. McCracken, Ohio State University, engr.

O., West Union—REPAIR GARAGE—G. F. Schlesinger, dir. Dept. Hys. & Pub. Wks., Ohio Hartman Bldg., Columbus, having sketches made by H. B. Briggs, Ohio-Hartman Bldg., Columbus, 1 story, brick, steel and concrete, here. $50,000.

Mich., Detroit—AUTO PARTS FACTORY—Detroit Lubricator Co., 5842 Trumbull Ave., having plans prepared by R. C. Derrick, 120 Madison Ave., 2 story, 65 x 110 ft., rein.-con. and brick, plain foundation, Trumbull Ave. $50,000.

Mich., Detroit—ENAMELING PLANT—Chrysler Corp., 341 Massachusetts Ave., had plans prepared by Smith, Hinchman & Grylls, 800 Marquette Bldg., 1 and 2 story, 60 x 400 ft., brick and steel, plain foundation, East Jefferson Ave.

Ill., Chicago — FACTORY — Zimmerman, Saxe & Zimmerman, archts., 212 East Superior St., take bids about Dec. 10, altering and constructing 2 and 7 story and basement, 100 x 173 ft. irregular shaped, brick, steel and stone addition, 1750 North Ashland Ave., for Northwestern Yeast Co., 1750 North Ashland Ave.

Ill., Chicago — FACTORY — Campbell Soup Co., 2nd and Market Sts., Camden, N. J., soon lets contract large factory on 22 acre site, covering 1,050,000 ft. floor space, rein.-con., etc., West 35th St. and Panhandle R.R. tracks, here. Battey & Kipp, 231 South La Salle St., engrs.

Ill., Chicago—WAREHOUSE and SALES ROOM—N. M. Dunning, archt., 25 East Jackson Blvd., soon lets contract 3 story and basement, rein.-con. and brick, Cottage Grove Ave. and 23rd St., for General Tire & Rubber Co., 1312 South Michigan Ave. $200,000.

Ill., Chicago — FACTORY — A. Epstein, archt., 2001 West Pershing Rd., soon takes bids 3 and 4 story, 38 x 300 ft., rein.-con. and brick, Augusta and Cicero Aves., for Schutter-Johnson Candy Co., 20 North Jefferson St. $300,000.

Ill., Chicago—WAREHOUSE—General Tire & Rubber Co., 1708 East Market St., Akron, O., having plans prepared by N. M. Dunning, 310 South Wabash Ave., warehouses, Cottage Grove Ave. and 23rd St., here. $100,000.

Ill., Girard — SHOE FACTORY — Magnolia Shoe Co., c/o Manske & Bartling, archts., 410 North Euclid Ave., St. Louis, Mo., having preliminary plans prepared 2 story, 100 x 320 ft., rein.-con., brick and steel, here.

Minn., Minneapolis — REPAIR and SERVICE GARAGE—J. Rosenberg, 2635 Girard Ave. S., having plans prepared by P. E. Crosier, 916 New York Life Bldg., 1 story, 83 x 120 ft., repair and service garage, Hennepin Ave. and 24th St. $45,000.

Minn., Minneapolis—BAKERY—Continental Baking Co., 211-12th St., S., having plans prepared 1 story and basement, rein.-con., brick and Bedford stone addition, 209-12th St. S. $75,000. Private plans.

Ia., Manning—POWER PLANT—Manning Light Co. having plans prepared power plant. $200,000. Private plans.

Mo., Kansas City—SERVICE STATION—United Motor Serv., Inc., 2701 Warwick Blvd., having plans prepared by R. H. Sannerman, 519 Lee Bldg., 2 story and basement, 100 x 125 ft., brick, 25th and McGee Sts. $40,000.

Mo., St. Louis — FOUNDRY — Century Electric Co., 1806 Pine St., having plans prepared by L. B. Pendleton, 73 DeMenil Bldg., 1 story, rein.-con., and brick, Spring and Market Sts. $200,000.

Tex., Ft. Worth—PLANT—Montgomery Ward & Co., R. D. Halbower, mgr., soon takes bids 8 story, 220 x 360 ft., 500,000 sq.ft. floor space, concrete, red tile and terra cotta, Camp Bowie Blvd. $2,000,000.

Tex., Sabine—REFINERY—Shell Union Oil Corp., 65 Bway., New York City, acquired site and plans gasoline refinery in and near here.

Tex., San Angelo — POWER PLANT — West Texas Utilities Co., Abilene, soon takes bids power plant addition, incl. additional boiler, extending fireproof building and installing 6,000 kw. turbine complete with auxiliaries, here. $500,000. Sargent & Lundy, 72 West Adams St., Chicago, Ill., engrs.

Okla., Oklahoma City—FACTORY—Sheffield Steel Co., Ry. Exch. Bldg., St. Louis, Mo., having preliminary plans prepared 1 story, steel, plain foundation, Klein St., here. $100,000. Engineer and architect not announced.

Wash., Seattle — BOILER ROOM and PLANT—See "Buildings-Educational, Religious."

Wash., Wenatchee — SUB-STATION — Great Northern R.R. Co., J. R. W. Davis, ch. engr., St. Paul, Minn., plans substation, incl. 7,500 kva. frequency charger set, here. $200,000.

Wash., Wenatchee — SUB-STATION — Puget sound Power & Light Co. plans sub-

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Buildings—Industrial (Continued)

station opposite Great Northern R.R. Station, here. $100,000.

Ore., Klamath Falls—SAW MILL—Weyerhauser Timber Co., G. Long, mgr., Tacoma Bldg., Tacoma, Wash., plans 100,000,000 ft. capacity saw and planing mill on Klamath River, point 4 mi. southwest of here. $250,000.

Calif., Huntington Park — FURNITURE FACTORY—S. Karpen & Bros., c/o Hamm, Grant & Bruner, Inc., engrs., Ferguson Bldg., Los Angeles, having plans prepared 4 story, rein.-con., Irvington St. $250,000.

Calif., Los Angeles — BOILER SHOP — Standard Boiler & Steel Wks., (owner and archt.), 221 Queirolo St., G. J. Kuhrts, Jr., genl. mgr., had plans prepared 1 story, 70 x 240 ft. addition. To exceed $40,000.

Calif., Los Angeles—FACTORY—Brunswick-Balke-Collender Co., 84 South Los Angeles St., having preliminary plans prepared by Morgan Co., 740 South Bway., 1 story, 177 x 400 ft., probably concrete and steel, Mines Ave. and Galada St. $300,000.

Calif., Los Angeles—FACTORY—C. F. Plummer, archt., 1108 Story Bldg., soon takes bids (1st unit) 100 x 100 (ultimately 100 x 300 ft.) fireproof, Union Pacific Industrial Tract, for Sterling Electric Motors, Inc., 124 West 4th St.

Calif., Los Angeles—FURNITURE FACTORY—Bauman Bros., 6527 McKinley St., had plans prepared by H. K. Boone, Higuera Bldg., Culver City, 2 story, 60 x 165 ft., furniture factory, St. Andrews Ave. between 62nd and 64th Sts. $75,000.

Calif., Los Angeles—ICE PLANT—Merchants Ice & Cold Storage Co., 518 Seaton St., had plans prepared by L. A. Parker, 1105 Kerckhoff Bldg., 2 story and basement, 54 x 71 ft., rein.-con., 518 Seaton St. $100,000.

Bids Desired

Mass., Boston—POWER PLANT—Dec. 15, by Penal Institutions Dept., City Hall, P. A. Chapman, comr., 1 story, brick and steel, plain foundation, Deer Island, Boston Harbor. To exceed $50,000. J. H. Ritchie & associates, 250 Stuart St., archts.

Mass., Boston—REPAIR and SERVICE—A. J. Wilson, c/o B. S. Brown, archt., 65 Franklin St., taking bids 1 story, rein.-con. and steel, plain foundation, 33 Miller St. $40,000.

Mass., Cambridge (Boston P. O.)—SHOP—Cambridge Sheet Metal Co., 295 Franklin St., taking bids 1 story, 60 x 85 ft., brick addition, plain foundation, Franklin St. E. T. P. Graham, 171 Newbury St., Boston, archt.

Mass., Dorchester (Sta. Boston)—SERVICE GARAGE, SHOWROOM and REPAIR SHOP—Pickwick Garage, c/o L. Kopzynski, archt., 80 Federal St., Boston, taking bids 1 story, 60 x 160 ft., rein.-con. and steel, plain foundation, 711 Columbia Rd., here. To exceed $40,000.

Mass., Dorchester (br. Boston)—STOREHOUSE, etc.—Dec. 6, by Monks & Johnson, engrs., 99 Chauncey St., Boston, 3 story, 65 x 105 ft., rein.-con., brick and steel storehouse plain foundation, and paving, Baker Court, Milton Lower Mills section, here, for Walter Baker & Co. Ltd., Prce. Sq., Boston. H. C. Gallagher, pres. $150,000 or more.

Mass., Melrose (Ind. br. Boston) — PRINTING PLANT—Melrose Free Press, Inc., E. J. MacLean, mgr., 504 Main St., taking bids 1 story, 50 x 80 ft., brick and stone, plain foundation, West Foster St. $40,000 incl. equipment. T. Hixon, 4 Liberty Sq., Boston, archt.

Mass., North Woburn (mail Woburn)—PATENT LEATHER PLANT—See "Contracts Awarded."

N. J., Hoboken—BAMBOO FACTORY—See "Contracts Awarded."

N. J., Keansburg — ICE STORAGE PLANT—See "Contracts Awarded."

Pa., Phila. — STORAGE — Dec. 2, by Dept. City Transit, Broad St. Subway, 1 story and basement, 82 x 141 ft., steel and brick storage building, incl. fencing and gates, etc.

Ga., Atlanta—AUTO ASSEMBLY PLANT—A. Kahn, archt., 1000 Marquette Bldg., Detroit, Mich., taking bids 1 story, 483 x 762 ft. auto assembly plant, 162 x 202 ft. service parts building, and 3 story 65 x 240 ft. office building, all brick, steel and rein.-con., plain foundation, Sawtell Rd., here, for Chevrolet Motor Co., General Motors Bldg., Detroit, and 445 Whitehall St., Atlanta, Ga.

Wis., Marshfield — WAREHOUSE — Marshfield Canning Co. taking bids 1 story, 64 x 120 ft. warehouse addition, also 1 story, 32 x 64 ft. canning factory addition. Private plans.

Kan., Manhattan — POWER HOUSE — Dec. 15, by C. D. Cuthbert, archt., State House, Topeka, 3 story and basement, 51 x 201 ft., and 81 x 108 ft., rein.-con. and stone, here, for Kansas State Agricultural School. $325,000, incl. equipment. Noted Oct. 6.

Tex., Brownsville — ICE PLANT — See "Contracts Awarded."

Tex., San Benito—ICE PLANT—See "Contracts Awarded."

Calif., Los Angeles—FACTORY—Bauman Bros., 6527 McKinley St., taking segregated bids 2 story, 60 x 165 ft., brick and steel, St. Andrews Pl. between 63rd and 64th Sts. $75,000. H. K. Boone, Washington Blvd., Culver City, archt. Noted Dec. 1.

Calif., Richmond — DISTRIBUTING PLANT—F. R. Seaver, c/o Parr Terminal Co., Ferry Point, taking bids distributing plant at Potrero Point, for Petroleum Securities Co., Petroleum Security Bldg., Los Angeles. $1,500,000. Eng. Dept. Owners, engrs. Noted Nov. 17.

Ont., Hamilton — SUB-STATION — See "Contracts Awarded."

Contracts Awarded

Me., Wilton — PLANT — Wilton Woolen Co., 2 and 3 story and basement, 50 x 60 ft., and 70 x 110 ft., brick and steel, addition, plain foundation, to J. H. Kerr, Rumford. Noted Nov. 17.

Mass., Cambridge (br. Boston)—FACTORY—Ginn & Co., 215 1st St., 1 story, rein.-con., brick and steel addition, caisson foundation, to Scully Co., Kendall Sq. Bldg.

Mass., Cambridge (br. Boston) — REPAIR and SERVICE GARAGE — R. C. Grovestein, 5 Brattle St., 1 story, 75 x 140 ft., rein.-con. and steel, plain foundation, Sparks St., to E. H. McKeever, 61 Springfield St., Somerville. Archts. est. $40,000.

Mass., Dorchester (Sta. Boston)—FACTORY—Skinner Organ Co., 197 Sydney St., altering and reconstructing 3 story, brick and plain foundation, Sydney St., to J. Gascoigne, 6 Beacon St., Boston. Archts. est. $40,000.

Mass., Dorchester (Sta. Boston)—SUB-POWER STATION—City of Boston, Transit Dept., 1 Beacon St., 1 story and basement, rein.-con., brick and steel plain foundation, Beale St., here, to White Constr. Co., 11 Beacon St., here. $50,000. Noted Nov. 3.

Mass., Everett (br. Boston)—SUB-STATION—Malden Electric Co., 139 Pleasant St., Malden, 3 story, 30 x 65 ft., rein.-con. and brick, plain foundation, Thorndike St., to Coleman Bros. Co., 245 State St., Boston. Engrs. est. $500,000.

Mass., Lawrence — ARTIFICIAL ICE PLANT—B. L. McDonald, 398 Essex St., 1 story, 60 x 190 ft., brick and steel, plain foundation, Andover St., to L. C. Cyr, 45 Melrose St. Archts. est. $40,000.

Mass., North Woburn (mail Woburn)—PATENT LEATHER PLANT—E. H. Merrill, Winchester, and H. P. Peterson, Woburn, will rebuild Peterson-Merrill plant, here. $100,000. Work will be done by separate contracts. Private plans. Noted Nov. 3.

Mass., Roxbury (Sta. Boston) — SUB-STATION — Edison Electric Illuminating Co., 39 Boylston St., Boston, Station 143, 1 story, 45 x 75 ft., rein.-con., brick and steel, plain foundation, Humboldt Ave., here, to J. A. Fitzgerald Constr. Co., 38 Chauncy St., Boston. Archts. est. $100,000. Noted Nov. 17.

Mass., Woburn — PLANT — Bay State Leather & Tanning Co., Haverhill, 1 story, 60 x 270 ft., brick and timber, plain foundation, Cross St., to D. McLaughlin & Son, 35 Hudson St. Archts. est. to exceed $40,000.

Mass., Worcester — FACTORY — Worcester Cleansing & Dyeing House, 73 Green St., factory addition, Green St., to G. Venditti, 1056 Main St.

Conn., Waterbury—BAKERY—Reymond Baking Co., 490 South Main St., general contract 1 and 2 story, 110 x 175 ft., rein.-con., brick and steel baking plant, incl. garage facilities, East Main St., to Chas. Kinney & Co., 39 Elmwood Ave., Waterbury. Archts. est. $50,000. Noted Nov. 3.

N. Y., New York—DISTRIBUTING STATION—New York Edison Co., 15th St. and Irving Pl., sub-station addition, West 36th St., to Kenn-Well Constr. Co., 45 East 17th St. Archts. est. $300,000.

N. Y., New York — REPAIR — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., general contract repair shop, 28-32 Vandewater St., to Wiglan Bldg. Co., 145 West 45th St., $62,890. Noted Nov. 10.

N. J., Keansburg — ICE STORAGE PLANT—H. J. Fowler, 235 Creek Rd., will build 1 story, 25 x 50 ft., brick and steel addition, plain foundation. $40,000. Work will be done by separate contracts. Private plans.

N. J., Hoboken—BAMBOO FACTORY—Bamboo & Rattan Wks., 901 Jefferson St., will build 1 story, 100 x 200 ft., rein.-con., brick and steel, plain foundation. $75,000. Work will be done by separate contracts. Private plans.

N. J., Jersey City—WAREHOUSE—Colgate & Co., 105 Hudson St., general contract 2 story, rein.-con., brick and steel addition, Hudson and Grand Sts., to Turner Constr. Co., 420 Lexington Ave., New York City. Archts. est. $150,000.

N. J., Newark — STORAGE and MILL ROOM—Essex Fdry. Co., Murray St., general contract 1 story and basement, brick and steel, plain foundation, Murray St. and Ave. D, to Austin Co., 120 Bway., New York City. Archts. est. $50,000.

N. J., Paterson — FACTORY and ASSEMBLY PLANT — Wright Aeronautical Corp., 238 Lewis St., general contract 1 story, brick and steel, plain foundation, to J. W. Ferguson Co., 152 Market St. Archts. est. $75,000.

Pa., Bethlehem—SILK MILL—Twentieth Century Silk Co., Bishopthorpe and Cherokee Sts., 2 story and basement, 100 x 150 ft., brick and steel addition, to Potruch Constr. Co., 926 Hamilton St., Allentown.

Pa., Houston—SHOPS—Pittsburgh Coal Co., Oliver Bldg., Pittsburgh, general contract one 1 story, 40 x 80 ft., and two 1 story, 40 x 60 ft., brick and steel shops, here, to Fairchance Lumber Co., Fairchance. Archts. est. $40,000.

Pa., McKeesport — PLANT — Columbia Radiator Co., general contract 1 story, 70 x 212 ft., brick and steel addition, here, to Austin Co., Union Trust Bldg., Pittsburgh. Archts. est. $40,000. Noted Nov. 17.

Pa., Neville Island (Pittsburgh P. O.)—MACHINE SHOP—Witherow Steel Co., general contract 1 story, 50 x 240 ft., steel addition, to Hughes Foulkrod Co., 421 7th Ave., Pittsburgh. Archts. est. $60,000.

Pa., Phila.—DAIRY PLANT—Supplee-Wills-Jones Co., 1523 North 26th St., 2 story and basement, 70 x 128 ft., rein.-con., brick and steel, plain foundation, 4717-25 Lancaster Ave., to G. Kessler Contg. Co., 1733 North Marvine St. Archts. est. $80,000.

Pa., Phila.—MANUFACTURING PLANT—Ballinger Co., archts., 12th and Chestnut Sts., 1 and 3 story and basement, 45 x 91 ft., rein.-con., and steel, plain foundation, Richmond and Kennedy Sts., to A. Raymond & Raff, 1635 Thompson St., for C. Lennig & Co., Inc., Richmond and Kenendy Sts. Noted Nov. 17.

Pa., Pittsburgh — PLANT — Selden Co., 339 2nd Ave., general contract altering and constructing 1 story, brick and steel addition, to Taylor Meyer Co., Keystone Bldg. Archts. est. $40,000.

Pa., Pittsburgh—WAREHOUSE—H. J. Heinz, Co., 1962 Progress St., general contract 5 story and basement, 55 x 85 ft., brick and steel addition, River Ave., to Austin Co., Union Trust Bldg. Archts. est. $60,000.

Ga., La Fayette—COTTON MILLS—La Fayette Cotton Mills, 1 story, brick and steel additions, to West Point Iron Wks., La Grange. Archts. est. $100,000.

Miss., Moss Point—BOILER HOUSE—Southern Paper Co. converting oil burning boilers into powdered coal burning boilers, to Combustion Eng. Co., 200 Madison Ave., New York City. Engrs. est. $250,000.

Mich., Detroit—MACHINE SHOP—Lane, Davenport & Peterson, engrs. and archts., Charlevoix Bldg., 1 story, 60 x 126 ft., brick and steel, plain foundation, West Wilson St., to Corrick & Stocker, 11644 Cloverdale Ave., for Gorham Tool Co., 2206 12th St. Archts. est. $50,000.

Mich., Detroit—PORCELAIN PLANT—Natl. Porcelain Enameling & Fdry. Co., 718 Farhill Ave., Dayton, O., (1st unit) 1 story, 56 x 160 ft., brick and steel, plain foundation, Freeland Ave., here, to Cooper-Little Co., 844 Macabees Bldg. Archts. est. $50,000.

Mich., Pontiac—MOTOR CAR FACTORY—Oakland Motor Car Co., superstructure 1 and 2 story, 108 x 760 ft., and 560 x 640 ft., rein.-con., brick and steel, plain foundation, Oakland Ave., to Otto Misch Co., 159 East Columbia St., Detroit; foundation, to W. E. Wood Co., 1805 Ford Bldg., Detroit. Archts. est. to exceed $2,000,000. This corrects report in Nov. 10 issue.

Ill., Chicago—INDUSTRIAL—Rockwell Barnes Co., 823 South Wabash Ave., 1 story, 45 x 60 ft. rear addition and one story, 65 x 165 ft. top addition, 1511 West 38th St., to Chicago Industrial Constr. Co., 53 West Jackson Blvd. Archts. est. $50,000.

Ill., Salem — SHOE FACTORY — Brown Shoe Co., 1600 Washington St., St. Louis, Mo., general contract Addition A, 3 story, 44 x 102 ft.; Addition B, 3 story, 25 x 28 ft.; and Addition C, 1 story, 28 x 42 ft., to W. I. Guymon, Salem.

Buildings—Industrial (Continued)

Wis., Milwaukee—STORAGE—Wisconsin Telephone Co., 418 Bway., general contract 1 story, 60 x 189 ft., brick and stone, plain foundation, 4120 State St., to R. L. Reisinger & Co., 466 Oakland Ave. Archts. est. $46,000.

Mo., Kansas City—WAREHOUSE—Bever Product Co., 12th and Crystal Sts., 90 x 150 ft., rein.-con. and brick warehouse, here, to G. P. Reintjes Co., 2517 Jefferson St. Archts. est. $50,000.

Tex., Brownsville—ICE PLANT—Valley Electric & Ice Co., (parent concern, Central Power & Light Co., Frost Bldg., San Antonio), will build 1 story, 50 x 260 ft., ice plant brick, concrete and steel, here, $40,000. By day labor. J. M. Marriott Frost Bldg., San Antonio, archt. Noted Oct. 13.

Tex., San Benito—ICE PLANT—Valley Electric & Ice Co., c/o F. C. Ludden, mgr., San Benito, will build 1 story, 50 ton capacity, brick, concrete and steel, here, by day labor. $100,000. J. Marriott, Frost Bldg., San Antonio, archt.

Calif., Hueneme—PACKING PLANT—Oxnard Citrus Assn., Oxnard, 1 story, concrete, to D. J. Haire, 1051 South Manhattan Pl., Los Angeles, approximately $165,000.

Ont., Hamilton—SUB-STATION—Dominion Power & Transmission Co., 128 King St. E., will build concrete, brick and steel electric sub-station, by day labor. $100,000-$150,000.

Ont., New Toronto—RUBBER FACTORY—Goodyear Tire & Rubber Co., structural steel contract for 4 story and basement, 100 x 125 ft., rein.-con., brick and steel addition, plain foundation, Lake Shore Rd., to McGregor & McIntyre, 1139 Shaw St., Toronto. Archts. est. $175,000. Noted Nov. 17.

Ont., Toronto—PAPERBOARD MILL—Canadian Paperboard Co., H. O. 2 Seigneurs St., Montreal, Que., general contract 2 story and basement, 85 x 88 ft. beater building, 1 story and basement, 40 x 360 ft. machine room, 1 story, 100 x 108 ft. finishing room, 1 story, 60 x 60 ft. machine shop, also pasting machine room, roll storage, raw storage, office building, and boiler plant, all foregoing 1 story, rein.-con., brick and steel, plain foundations, to W. J. Trimble, 73 Adelaide St. W. Engrs. est. $1,000,000. Noted Sept. 15.

Buildings—Educational, Religious

Proposed Work

Me., Westbrook—CONVENT—St. Mary's Roman Catholic Church, W. J. Culbert, pastor, having preliminary plans prepared by J. J. O'Shaughnessy, 80 Boylston St., Boston, 2 story and basement, brick and stone, plain foundation. $150,000 or more.

Mass., Andover—LIBRARY and DINING HALL—Phillips Andover Academy, J. H. Buttimer, supt. buildings, plans library and dining hall. To exceed $150,000. Engineer and architect not selected.

Mass., Attleboro—HIGH SCHOOL—City, A. Briggs, mayor, City Hall, plans Senior High School. To exceed $150,000. Engineer and architect not selected.

Mass., Boston—UNIVERSITY—Boston University, D. L. Marsh, pres., 688 Boylston St., plans university group, Commonwealth Ave. and Bay State Rd. To exceed $150,000.

Mass., Boston — SOCIETY — Women's Council of Boston University, c/o E. O. Fish, 135 Winthrop Rd., Brookline, plans society building, Bay State Rd. $250,000. Engineer and architect not selected.

Mass., Gloucester — HIGH SCHOOL — City, H. H. Parsons, mayor, plans high school. $1,000,000. Engineer and architect not selected.

Mass., Medford (br. Boston) — GYMNASIUM — Tufts College, J. A. Cousens, pres., having preliminary sketches made by Andrews, Jones, Biscoe and Whittmore, 50 Congress St., Boston, 2 and 3 story, brick, college grounds. $150,000-$200,000.

Mass., Medford — MUSIC and DRAMATIC—Tufts College, J. A. Cousens, pres., having sketches made by Andrews, Jones, Biscoe & Whittmore, 50 Congress St., Boston, 2 story and basement, brick and limestone, plain foundation, on campus. $250,000.

Mass., Newton—SCHOOLS—City, E. O. Childs, mayor, City Hall, plans Horace Mann School, Watertown St., here, also Claflin School, in Newtonville, $150,000 or more. Engineer and architect not selected.

Mass., Northampton — SCHOOL — St. Mary's Roman Catholic Church, T. B. Cummings, pastor, 3 Elm St., plans 2 or 3 story and basement, brick and stone school. $150,000. Engineer and architect not selected.

Conn., West Hartford (br. Hartford)—HIGH SCHOOL—Town, School Bd., having plans prepared by R. F. Barker, 43 Farmington Ave., Hartford, Junior High School, 2 story and basement, 60 x 215 ft., rein.-con., brick and steel, incl. art and domestic science department, library, etc. $200,000.

N. Y., Batavia—SCHOOLS—Bd. Educ., 23 Jackson St., C. P. Wells, supt., takes bids about Feb. 1, three 2 story schools one on Union St., one on Hitchins St., and other South Jackson St. $400,000 bonds voted for same. Green & Sons & Hopkins, 1 Niagara Sq., Buffalo, archts. Noted May 5.

N. Y., Brooklyn—HIGH SCHOOL—Bd. Educ., 500 Park Ave., New York City, having plans prepared by W. H. Gompert, Flatbush Ave. extension and Concord St., Abraham Lincoln High School, 3 story, Ocean Parkway, Riverside and West Aves. $2,584,000.

N. Y., Forest Hills (sta. Flushing) — SCHOOL—Maginnis & Walsh, archts., Statler Bldg., Boston, Mass., soon lets contract, 2 story and basement, brick and stone, plain foundation, here, for Our Lady Queen of Martyrs' Church.

N. Y., Huntington — SEMINARY — Catholic Dioceses of Brooklyn, T. E. Molloy, bishop of Brooklyn, had plans prepared by R. J. Reiley, 10 East 41st St., New York City, 4 story and basement seminary, incl. two 3 story wings and 7 story tower, all brick and limestone, on 75 acre site, point 6 mi. from here. $1,500,000.

N. J., Long Branch—CHURCH—R. J. Reiley archt., 10 East 41st St., New York City, soon lets contract, 1 story, tower and basement, 121 x 156 ft., brick and steel plain foundation, here, for Church of Our Star of the Sea. $150,000. Noted July 7.

N. J., Pompton Lakes—HIGH SCHOOL—Bd. Educ., Municipal Bldg., plans 2 story and basement, brick and steel, plain foundation, Lakeside Ave. $150,000. Engineer and architect not selected.

N. J., Rivervale (mail Westwood) — SCHOOL—Bd. Educ. plans 2 story and basement, brick and steel, plain foundation. $150,000. Engineer and architect's names withheld.

N. J., Secaucus (Ind. br. Weehawken)—SCHOOL—Bd. Educ., Town Hall, having plans prepared by W. Mayer, Jr., 711 Bergenline Ave., West New York, 2 story and basement, brick and steel, plain foundation, Back Rd. $150,000.

N. J., Trenton—BUSINESS COLLEGE—Rider Business College, State and Ewing Sts., J. E. Gill, pres., having plans prepared 4 story, brick and steel addition. $350,000. W. W. Soack & Sons, Trenton Trust Bldg., engrs.

Md., Baltimore—GYMNASIUM—Taylor & Fisher, archts., Union Trust Bldg., soon lets contract, 2 story and basement, 74 x 107 ft., stone, concrete foundation, Roland and Belvedere Aves., for Gilman School for Boys, Roland and Belvedere Aves. H. Massart, 328 North Charles St., engr. Noted Nov. 3.

Miss., Vicksburg—CONVENT—St. Francis Xavier having plans prepared by Andry & Feitel, New Orleans Bank Bldg., New Orleans, La., convent. $250,000.

Tenn., Memphis—UNIVERSITY—University of Tennessee, Knoxville, soon lets contract 3 story, concrete, brick and steel library and pharmacy buildings, Union and Madison entrances, here. $400,000. Jones & Furbringer, Porter Bldg., archts.

O., Bedford (br. Cleveland)—SCHOOL—Bd. Educ., R. P. Orchard, clk., having plans prepared by Carter-Richards Co., Engineers Bldg., Cleveland, 2 story and basement, brick, steel and concrete school and additions. $200,000.

O., Columbus — CHEMISTRY — C. E. Steele, secy. Bd. Trustees Ohio State University, having plans prepared by J. N. Bradford, Ohio State University, 5 story and basement, 84 x 150 ft., brick, steel, stone and concrete addition, on campus. $290,000.

O., Kenmore (br. Akron)—SCHOOL—Bd. Educ. having preliminary plans prepared by M. P. Lauer, Pythian Temple Bldg., Akron, 2 story and basement, brick, steel and concrete school. $160,000 bonds voted for same.

O., Lakewood (br. Cleveland)—SCHOOLS—Bd. Educ., G. W. Grill, clk., 1456 Warren Rd., having plans prepared by Howell & Thomas, 3868 Carnegie Ave., Cleveland, 2 story and basement, brick and concrete additions to Roosevelt and Hayes Schools. $250,000. Noted Sept. 29.

O., Northfield—SCHOOL—Summit Co. (Akron) voted $150,000 bonds, school, here.

Ind., Muncie—CHURCH—First Baptist Church, 4 story and basement, rein.-con., brick and Indiana limestone, plain foundation, Jefferson St., to Moirow & Moirow, Muncie, $250,000.

Ind., Noblesville—SCHOOL—Comrs., G. McPherson, trustee, having plans prepared by D. Graham, 1126 Hume-Munsur Bldg., Indianapolis, Federal Hill School, 2 story and basement, 75 x 130 ft., rein.-con., brick and steel, incl. gymnasium, $135,000.

Ark., Ft. Smith—HIGH SCHOOL—Bd. Educ., G. C. Hardin, pres., Merchants Natl. Bank Bldg., takes bids about Dec. 1, 3 story, rein.-con., brick and stone, 23 and B Sts. $300,000. Perkins, Chatten & Hammond, 160 La Salle St., Chicago, Ill., Bassham, Wheeler, Kennedy Bldg., and Haralson & Nelson, Merchants Natl. Bank Bldg., associated archts.

Tex., Panhandle—HIGH SCHOOL—Bd. Educ., c/o C. P. McCullough, having plans prepared by Butler Co., Wilson Bldg., Lubbock, and takes bids about Dec. 15, 2 story, rein.-con., and brick, approximately 12,000 sq.ft. floor space, plain foundation. $150,000.

Tex., Texas City—HIGH SCHOOL—W. C. Hedrick, archt., 1st Natl. Bank Bldg., Ft. Worth, preparing plans and soon takes bids high school, here, for City. $150,000.

Wash., Seattle—HIGH SCHOOL—F. A. Naramore, archt., Central Bldg., takes bids about Dec. 14, 3 story and basement addition to Queen Anne High School, incl. 12 classrooms, assembly hall and balcony, two gymnasiums, boiler room and plant, etc., Highland Pl. and Galer St., for Seattle School Dist. 1, Central Bldg. $300,000.

Ont., Hamilton—COLLEGE—McMaster University Bd., 273 Bloor St. W., purchased McKittrick Estate, 70 acres, and plans 2, 3 and 4 story, rein.-con., brick, steel and stone college, dormitories, etc., plain foundations, $1,500,000. Engineer and architect not selected.

Ont., Ottawa—COLLEGE—Ottawa University, Walter St., having plans prepared 3 story and basement, 130 ft. long, rein.-con., brick and steel addition, incl. chapel, gymnasium and dormitories, plain foundation, Water St. $300,000. Private plans.

Ont., Toronto—CHURCH and SUNDAY SCHOOL — Erskine Ave. United Church, 248 Roncesvalles Ave., plans rebuilding 1 and 2 story and basement, rein.-con., brick and steel, plain foundation, Roncesvalles and Wright Aves., recently destroyed by fire. $160,000. Engineer and architect not selected.

Ont., Toronto — SCHOOL — Bd. Educ., East York Twp., Sammon Ave., plans 2 story and basement, 12 room, rein.-con., brick and steel addition to McGregor School, plain foundation. $175,000. Engineer and architect not selected.

Bids Desired

N. Y., New York — SCHOOL of COMMERCE—Dec. 21, by Bd. Trustees College of City of New York, M. J. Stroock, chn., 139th St. and Convent Ave., general contract Commerce Building, Lexington Ave. and 23rd St. Thompson, Holmes & Converse, 101 Park Ave., archts. Noted Sept. 29.

N. J., Ventnor City (br. Atlantic City)—SCHOOL—Dec. 13, by Bd. Educ., at Troy Ave. School, 3 story and basement, brick and steel, plain foundation, Troy and New Haven Aves. $200,000. H. A. Stout, Guarantee Trust Bldg., Atlantic City, archt.

Pa., Phila. — SCHOOL — Dec. 6, by Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., 3 story and basement, 125 x 195 ft., rein.-con. and brick, plain foundation, Shawmont and Avon Sts. I. T. Catharine, 19th and Chestnut Sts., archt.

Fla., Tallahassee—DORMITORY—Dec. 12, by State Bd. Control, State Office Bldg., boys dormitory and extending dining hall for Florida Agricultural & Mechanical College for Negroes. R. Weaver, archt. for State Bd. Control.

Miss., Crystal Springs—SCHOOL—Dec. 5, by Copia Co. Bd. Educ., c/o P. K. Brice, chn., 3 story, 62 x 102 ft., and 55 x 275 ft., rein.-con., brick and steel, rein.-con. foundation, for Consolidated School Dist. C. H. Lindsley, Lamar Life Bldg., Jackson, archt. Noted Oct. 20.

La., Shreveport—HIGH SCHOOL—Dec. 19, by Caddo Parish School Bd., E. W. Jones, supt., 2 story and basement, rein.-con., brick and stone, State St., near Fair Grounds, $400,000. Former bids rejected. E. F. Neild, 1205 City Bank Bldg., archt. Noted Oct. 20.

O., Cleveland — PATHLOGICAL LABORATORY—Dec. 8, by A. Garfield, archt., Natl. City Bldg., 5 story and basement, 57 x 160 ft., brick, steel and concrete, Adelbert Rd., for University Hospital Assn., c/o F. A. Scott, pres., c/o Warner & Swasey Co., 5701 Carnegie Ave. $750,000.

Buildings—Educational, Religious (Cont.)

Ind., Evansville — HIGH SCHOOL — School Comrs. taking bids 2 story and basement, rein.-con., brick and steel, Garvin and Bellemeade Sts. $300,000. Lewis, Warren-Ronald, Realty Bldg., Louisville, Ky., engrs. Fowler & Karges, Furniture Bldg., archts. Noted Nov. 24.

Mich., Brighton—SCHOOL—Dec. 5, by Bd. Educ., 2 story and basement, 62 x 152 ft., rein.-con., brick and steel, plain foundation. $175,000. Verner, Wilhelm & Molby, 824 Book Bldg., Detroit, archts. Noted Nov. 17.

Mich., Kalamazoo—SCHOOL—Dec. 4, by H. W. Anderson, bus. mgr. Bd. Educ., 2 story and basement, 60 x 205 ft., rein.-con., brick and steel, plain foundation, East Ave. $300,000. E. S. Batterson, 901 Westnedge St., archt. Noted Oct. 13.

Wis., Kenosha—CHURCH—Dec. 3, by Childs & Smith, archts., 720 North Michigan Ave., Chicago, Ill., 60 x 140 ft. church, and 79 x 145 ft. sunday school, rein.-con., brick and stone, Congress St. and Sheridan Dr., here, for Methodist Episcopal Church, 454 West St. Noted Oct. 13.

Mo., Richmond Heights (mail St. Louis) —CHURCH—See "Contracts Awarded."

Calif., Los Angeles—SYNAGOGUE and SCHOOL—A. M. Edelman, archt., H. W. Hellman Bldg., and Allison & Allison, associated archts., Hibernian Bldg., taking bids 120 x 260 ft. synagogue, and 4 story school, Wilshire and Hobart Blvds., for Congregation B'nai B'Rith. Noted Oct. 20.

Contracts Awarded

Me., Brunswick — COLLEGE — Bowdoin College, c/o McKim, Mead & White, archts., 101 Park Ave., New York City, 2 story and basement, 65 x 120 ft., brick, on campus, here, to Cummings Constr. Co., 14 Prospect St., Ware, Mass. Archts. est. $150,000. Noted Nov. 10.

Mass., North Adams—CHURCH—Methodist Episcopal Church, Main St., 1 story and basement, 40 x 65 ft., and 55 x 110 ft., brick and stone, plain foundation, Main St., to J. R. Hampson & Co., Inc., 184 North St., Pittsfield. Archts. est. $150,000. Noted Oct. 27.

Mass., Walpole—HIGH SCHOOL—Town, J. S. Leach, 2 story and basement, brick and steel addition, plain foundation, Common St., to Dacy & Tibbetts, 70 Porter St., Cambridge. Noted Oct. 20.

R. I., Providence — CONVENT — St. Xavier Academy, M. Mathieu, mother, 2 story and basement, brick, steel and cast stone, Pine and Broad Sts., to McIntyre & Sons, 6 Fair Oaks Ave. Archts. est. $150,000. Noted Oct. 27.

R. I., Providence—HIGH SCHOOL—City, Pub. Building Dept., general contract Junior High School, 3 story and basement, 150 x 270 ft., brick and steel, plain foundation, Elmgrove and Taber Aves., Sessions and Emeline Sts., to E. Turgeon, 36 Exchange Pl., $810,517; heating and ventilating, to F. Dupuis, 590 Main St., Pawtucket, $119,500; plumbing, to T. R. Douglas, 22 Sabin St., $59,000; and electrical work, to Peerless Electric Co., 73 Exchange Pl., $22,498. Noted Nov. 3.

R. I., Providence—COLLEGE—Providence College Corp., c/o W. D. Noon, pastor, 4 story and basement, 70 x 155 ft., brick, stone and steel addition, plain foundation, Eaton St. and River Ave., to Bouvier-Brien Constr. Co., 189 Sayles St., Woonsocket. Archts. est. $400,000 or more. Noted Nov. 10.

Vt., Rutland—HIGH SCHOOL—City, A. W. Perkins, mayor, City Hall, 3 story and basement, 200 x 215 ft., brick and stone, plain foundation, Church St., to C. T. Rockeford, 16 Norwich St., Worcester. Archts. est. $300,000. Noted Nov. 17.

N. Y., Brooklyn—CHURCH—Church of Good Shepherd, 4th Ave. and 75th St., general contract church, Avenue S and Batchelder St., to Wilfred Stewart, Inc., 1567 Flatbush Ave. Archts. est. $200,000.

N. Y., Brooklyn—CHURCH—St. **Marks** Roman Catholic Church, Ocean and Jerome Aves., 69 x 156 ft. church, Ocean Ave. between Jerome Ave. and Avenue Z, to T. O'Reilly & Sons, 415 Lexington Ave., New York City. Archts. est. $350,000.

N. Y., Bronxville (Ind. br. Yonkers) — COLLEGE—Sarah Lawrence College, W. V. Lawrence, chn., c/o Davis & Lawrence Co., Bronx Blvd. and 238th St., New York City, general contract 3½ story, brick, Bronxville Rd., here, to Cuzzie Bros., 10 South 2nd Ave., Mount Vernon. Archts. est. $1,250,000. Noted Jan. 6.

N. J., East Orange — SCHOOL — Bd. Educ., 19 Winas St., general contract 2 story and basement, 75 x 128 ft., brick and steel addition to Columbia School, plain foundation, North Grove St., to A. C. Windsor, 205 North Mountain Ave., Montclair. Archts. est. $150,000. Noted Oct. 13.

N. J., Livingston—SCHOOL—Bd. Educ., Central School, 2 story and basement, brick and steel, plain foundation, to W. G. Sharwell & Co., 377 North 5th St., Newark. Archts. est. $150,000. Noted Nov. 10.

Pa., Ambridge—LIBRARY—A. Laughlin, Beaver Rd., Sewickley, general contract Alexander Laughlin Memorial Library, 1 story and basement, 82 x 82 ft., hollow tile, steel and stone, Church Ave., here, to J. M. Scott, Sewickley. Archts. est. $150,000.

Pa., North Braddock (Braddock P. O.)—HIGH SCHOOL—Bd. Educ., S. R. McClure, Berger Bldg., and Carlisle & Sharrer, archts., Martin Bldg., Pittsburgh, general contract Junior High School, 2 and 3 story and basement, 130 x 216 ft., brick and steel addition, here, to Hodder Constr. Co., Braddock, $279,500. Noted Oct. 20.

Md., Cumberland—CHURCH—St. Mary's Catholic Church, 60 x 200 ft., brick and stone church, to A. L. Will Co., Cumberland, $191,500.

O., Berea—DORMITORY—Baldwin-Wallace College, A. B. Storms, pres., 3 story and basement, 40 x 154 ft., and 40 x 46 ft., brick, steel and concrete, to R. S. Ursprung, 97 East Grand Ave. Archts. est. $200,000. Noted Oct. 27.

Mich., Keego Harbor — SCHOOL — Bd. Educ., Cass Lake, general contract 2 story and part basement, rein.-con., brick and steel, plain foundation, to J. Race, 125 Summit St., Pontiac. Archts. est. $150,000. Noted Oct. 13.

Ind., Lafayette—HIGH SCHOOL—School Comrs., general contract Jefferson High School, 2 story and basement, 165 x 185 ft., rein.-con., brick and steel, incl. gymnasium and auditorium, 9th and Cincinnati Sts., to A. E. Kemmer, 3rd and Brown Sts., $280,500. Noted Nov. 3.

Ind., Madison—HIGH SCHOOL—School Comrs., general contract 2 story and basement, brick and steel, to W. A. Gutzwiller, Batesville. Archts. est. $150,000. Noted Apr. 28.

Ind., Whiting — CHURCH — Congregational Church general contract Plymouth Congregational Church, 2 story, steel and cut stone, 119th and Stanton Sts., to Anderson Bros., 515 Bway., Gary. Archts. est. $150,000.

Neb., Omaha—CHURCH—Dundee Presbyterian Church, D. McLeod, pastor, 1st Natl. Bank Bldg., general contract (1st unit) irregular shaped, brick, 600 seating capacity, 55th St. and Happy Hollow Blvd., to O. S. Nelson Constr. Co., 1009 Mercer Blvd. $135,000. Archts. est. $225,000.

S. D., Vermilion—UNION—Union Building Com., and M. Thompson plans probably 3 story and basement, rein.-con., brick and stone, on State University campus. $300,000. Engineer and architect not announced.

Mo., Kansas City — SCHOOL — Horner Institute of Music, 30th and Troots Sts., plans fireproof school, 30th and Troots Sts. $200,000. Engineer and architect not selected.

Mo., Richmond Heights (mail St. Louis) —CHURCH—St. Luke's Roman Catholic Congregation, J. A. McMahon, pastor, 7232 Dale Ave., will build 1 story and basement, 70 x 150 ft., rein.-con., brick and stone, Dale and Bellevue Aves. Work will be done by separate contract under supervision Study, Farrar & Rothenheber, archts., 1363 Arcade Bldg. Archts. est. $175,000. Noted July 21.

Calif., Los Angeles—HIGH SCHOOL—Bd. Educ., 3 story, 60 x 200 ft. with 40 x 50 ft. wing, brick and terra cotta addition to Metropolitan High School, Venice Blvd., to J. F. Kobler, 932 Rimpau Blvd., $208,478. Noted Oct. 20.

Federal Government Work

Proposed Work

N. Y., New York—Hydrogen Gasometer —Spec. 5479—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans hydrogen gasometer at Navy Yard, here.

N. Y., New York—Motor Generator Sets —Spec. 5486—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids Oct. 26, motor generator sets at Navy Yard, here. Noted Oct. 20.

Wash., Seattle—Dredging—U. S. Engineer Office, Seattle, plans dredging in Tacoma Harbor, here.

Calif., Fort Mason (mail San Francisco) —Gasoline and Oil Station—Constructing Quartermaster, Fort Mason, takes bids about Dec. 7, gasoline and oil storage station, incl. four 9 x 21 ft. steel tanks, pump house with 2 pumps and 2 motors, etc., here.

Bids Desired

N. Y., Governors Island (br. New York) —Power and Lighting System—Dec. 6, by Quartermaster, electric power and lighting system and diesel electric generators.

D. C., Wash.—Excavation, etc.—Dec. 8, by Treas. Dept., at office Supervising Archt., excavation, pipe tunnels, etc., for administration building, Dept. Agriculture. J. A. Wetmore, acting superv. archt.

Ga., Athens—Water Supply Piping—Dec. 14, by Treas. Dept., at office Supervising Archt., Wash., D. C., new brass water-supply piping, etc., in U. S. Post Office and Courthouse, here. J. A. Wetmore, acting superv. archt.

Fla., Pensacola — Compass House and Pigeon Loft—Spec. 5468—Dec. 14, by Bureau Yards & Docks, Navy Dept., Wash., D. C., compass house and pigeon loft, at Naval Air Station, here. Noted Nov. 17.

Ky., Lexington—Mailing Vestibule—Dec. 27, by Treas. Dept., at office Supervising Archt., Wash., D. C., mailing vestibule, etc. at U. S. Post Office, here. J. A. Witmore, acting superv. engr.; adv. E. N.-R. Dec. 1.

Mo., St. Louis—Motor—Dec. 14, by U. S. Engineer Office, 428 Custom House, one 940 hp. d.c. motor; adv. E. N.-R. Dec. 1. Noted Nov. 24.

Tex., San Antonio — Bank — Federal Reserve Bank, C. C. Walsh, chn., Dallas, taking bids 2 story and basement, 60 x 80 ft., rein.-con., brick and stone, 9,000 sq.ft. floor space, Villita and Navarro Sts., here. $200,000. A. B. and R. M. Ayres, 626 Bedell Bldg., archts. Noted July 21.

California — Road — Dec. 13, by C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., Sheldon Bldg., San Francisco, grading, etc., 3.54 mi. road from Squirrel Inn to Pass Sect. Route 65, Bear Valley Natl. Forest Highway, San Bernardino Natl. Forest, San Bernardino Co.

Bids Received

Conn., New Haven—Dredging—U. S. Engineer Office, Providence, R. I., Nov. 22, dredging Mill River, New Haven Harbor, here, from Morris & Cummings Dredging Co., Inc., 15 Moore St., New York City, $33,600. Noted Oct. 20.

N. Y., New York—Garage—Treas. Dept., at office Supervising Archt., Wash., D. C., Nov. 21, garage at U. S. Quarantine Station, here, from W. D. Moore's Son, 554 67th St., Brooklyn, $10,191. Noted Oct. 20.

N. J., Lakehurst—Mooring Mast—Spec. 5510—Bureau Yards & Docks, Navy Dept., Wash., D. C., Nov. 23, mobile mooring mast at U. S. Naval Air station, here, from Steel Products Eng. Co., Dakota Ave. and Columbus St., Springfield, $10,890. Noted Nov. 10.

D. C., Wash.—Retaining Walls—U. S. Veterans Bureau, Arlington Bldg., Nov. 22, retaining walls, roads, walks, fences, etc., at U. S. Veterans Hospital, Mount Alto, here, from Bahen & Wright, 1214 New York Ave. N. W., $11,808. Noted Nov. 3.

Ala., Birmingham—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., Nov. 25, remodeling 1st and 2nd floors U. S. Post Office and Court House, here, from J. F. Dietz, Birmingham, Ala., $14,777. Noted Nov. 3.

Tenn., Johnson — Remodeling — Treas. Dept., at office Supervising Archt., Wash., D. C., Nov. 22, remodeling U. S. Post Office, here, from C. Weitz Sons, 713 Mulberry St., Des Moines, Ia., $16,749. Noted Nov. 3.

Ky., Dawson Springs — Boilers — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Nov. 22, 4 horizontal boilers for U. S. Veterans Hospital 79, Outwood, here, from Casey-Hedges Co., Vulcan St., Chattanooga, Tenn., $7,510. Noted Nov. 17.

T. H., Pearl Harbor—Generating Plant Equipment—Spec. 5481—Bureau Yards & Docks, Navy Dept., Wash., D. C., Nov. 23, steam generating plant equipment and piping at Naval Operating Base, here, from F. W. Spencer & Co., Honolulu, $20,000. Noted Sept. 22.

T. H., Pearl Harbor — Refrigerating Plant—Spec. 5482—Bureau Yards & Docks, Navy Dept., Wash., D. C., Nov. 23, refrigerating plant at Naval Operating Base (submarine base), here, from Von Hamm-Young Co. Ltd., Honolulu, $13,725. Noted Oct. 6.

Contracts Awarded

O., Cincinnati—Pontoons—U. S. Engineer Office, 7 steel pontoons to Biggs Boiler Wks., 1007 Bank St., Akron, $11,711; and 25 sections riveted pipe, to Petroleum Iron Wks. Co. of Ohio, Sharon, $2,925. Noted Oct. 13.

Mo., St. Louis—Stone—U. S. Engineer Office, St. Louis, 8,000 cu.yd. stone, to W. N. Damm, Neely's Landing, $11,920; 5,000 cu.yd., to A. J. Bussen, Jefferson Bar-

Federal Government Work (Continued)

racks, $9,250; 3,000 cu.yd., to C. H. Masters, Cape Girardeau, $4,200; 45,000 cu.yd., to Arnold Stone Co., Ste. Genevieve, $65,250; and 15,000 cu.yd., to E. Hely Stone Co., Cape Girardeau, $22,500. Grand total $113,120.

Oregon and Idaho—Railroad—Bureau Reclamation, Boise, Idaho; 24 mi. railroad to Owyhee irrigation dam, to General Constr. Co., Seattle, Wash., $345,312. Noted July 14.

California—Airway Beacons—Dept. Commerce, Wash., D. C., electric airway beacons and intermediate landing field equipment, on Fresno-San Francisco Sect. and Los Angeles-Fresno Sect. for Los Angeles-San Francisco Airway, here, to A. C. Rice, 1957 Santee St., Los Angeles.

Unclassified

Proposed Work

Swimming Pool — Lynn, Mass. — Dept. Schools, plans swimming pool. $25,000 or more. Engineer not selected.

Elimination Grade Crossing—Hartford, Conn.—City plans eliminating grade crossings on Windsor Ave., Canton, Avon and Russell Sts. $1,000,000. R. N. Clark, City Hall, engr.

Dock—Albany, N. Y.—Albany Dist. Port Comn. rejected bids 752 ft. dock at Westerlo Island. Will readvertise. Noted Oct. 27.

Park Improvement—New York, N. Y.—Park Bd., W. R. Herrick, pres. Park Dept., Arsenal Bldg., Central Park, rejected bids Nov. 15, improving land between Jerome and River Aves. between 165th and 167th Sts. Noted Nov. 10.

Stadium — New York, N. Y. — Amer. League Baseball Club, 161st St. and River Ave., making plans 2 tier addition to 1 story portion, on left field side. $150,000. Osborne Eng. Co., Euclid Bldg., Cleveland, O., engrs.

Park Improvements, etc.—Jackson, Miss.—Voted $75,000 bonds, park and playground improvements. W. A. Scott, mayor.

Tunnel — Vicksburg, Miss. — See "Bridges."

Power Unit, Stokers, etc.—Detroit, Mich.—Chrysler Motor Co., Highland Park, plans installation two 800 hp. additional power units. $200,000 each. T. E. Murray, Inc., 55 Duane St., New York City, N. Y., engrs.

Transmission Lines—Del Rio, Tex.—Central Power & Light Co., c/o Frost Bldg., San Antonio, making surveys several transmission lines radiating from new power plant to be built on Devils River, near here, to towns on border and vicinity. $300,000. Private plans. Noted May 19.

Stadium—San Antonio, Tex.—City making preliminary sketches, etc., stadium or amphitheatre at old gravel pit on north side city. $50,000. I. Ewig, city engr.

Transmission Line—Oklahoma—City of Strong, c/o H. V. Jobe, clk., voted $25,000 bonds, transmission line between Hammon and Strong, also distribution system in Strong.

Pipe Line — Oklahoma and Kansas — Larutan Fuel Co., Wichita, Kan., making plans pipe line between northern Oklahoma and Wichita, Kan. $250,000.

Transmission Line, etc.—Oklahoma—City of Lambert, c/o Mayor, voted $25,000 bonds, transmission line between Lambert and Cherokee; also distribution system in Lambert.

Transmission Line—Oklahoma—Southwestern Light & Power Co., Braniff Bldg., Oklahoma City, made preliminary plans 20 mi. 33,000 volt transmission line from Sayre to Texola and distribution system in Texola. $30,000. E. R. Ernsberger, Braniff Bldg., Oklahoma City, engr.

Lighting System—Bristow, Okla.—Voted $27,000 bonds "White Way" lighting system. J. Gano, Bristow, engr. Noted Oct. 27 under "Materials."

Dock and Ferry Slips—Seattle, Wash.—Puget Sound Navigation Co., 1310 Harbor St. S. W., plans altering and extending Colman Dock, incl. two ferry slips and addition to north side of plant, etc. $100,000.

Ice Arena—Fort Erie, Ont.—Fort Erie Artificial Ice Co. having plans prepared 1 story artificial ice plant and hockey arena, 5,000 seating capacity, rein.-con., brick and steel, plain foundation, Douglas St. $175,000. A. W. Connor & Co., Metropolitan Bldg., engrs.

Mining Plant — Kirkland Lake, Ont. — Kirkland Lake Mining Co., plans installing mining plant capable operating to 3,000 ft.

Turntable — Wiarton, Ont. — Canadian Natl. Ry., New Union Sta., Toronto, T. T. Irving, ch. engr., plans new turntable here. $25,000.

Memorial Park — Honolulu, T. H. — Diamond Head Memorial Park, c/o R. J. S. Cahill, archt., 357 12th St., Oakland, Calif., making preliminary plans Diamond Head Memorial Park, incl. columbariam, mausoleum, chapel, offices, etc., here. $200,000.

Bids Desired

Subway — New York — Dec. 21, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, constructing Sect. 12, Route 107, Rapid Transit R.R., extending under Manhattan Ave., Newtown Creek, private property, Vernon and Jackson Aves. from Freeman St., Brooklyn Boro to Arch St., Queens Boro.

Chimney, etc.—Brooklyn, N. Y.—Dec. 9, by B. S. Coler, comr. Dept. Pub. Welfare, Municipal Bldg., New York City, erecting radial brick chimney and repairing incinerator plant at Kings County Hospital, here.

Comfort Stations—New York, N. Y.—Dec. 7, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., comfort stations, on Bway. opposite Spuyten Duyvil Parkway, White Plains Ave. and Gunhill Rd., Fordham Rd. and Southern Blvd.

Water Lines—Poughkeepsie, N. Y.—Dec. 14, by Dept. Mental Hygiene, Albany, water lines for fire protection at Hudson River State Hospital, here. L. M. Farrington, secy.; adv. E. N.-R. Dec. 1.

Boardwalk—Manasquan, N. J.—Dec. 6, by Boro Council, constructing boardwalk. $35,000. Noted June 2.

Fence and Gates, etc.—Phila., Pa.—See "Buildings—Industrial."

Plumbing and Heating—Gulfport, Miss.—See "Buildings—Commercial."

Gas Line—Louisiana, Arkansas and Missouri—See "Contracts Awarded."

Bulkhead—Milwaukee, Wis.—Jan. 10, at office C. H. Rhodes, purch. agt. Illinois Steel Co., 208 South La Salle St., Chicago, Ill., approximately 2,350 ft. timber bulkhead in Lake Michigan, between Wilcox St. and Russell Ave., here; adv. E. N.-R. Dec. 1.

Gas Distributing System—Big Springs, Tex.—F. A. Hornaday, c/o Maverick Bldg., San Antonio, taking bids natural gas distributing system, incl. pipe for mains and connections, etc., here, for City. $75,000. Private plans.

Underpass, etc., New Braunfels, Tex.—See "Bridges."

Wharf—Charlottetown, P. E. I.—Dec. 6 (extended date), by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., extending wharf, here, for Canadian Natl. Ry., St. James St., Montreal, Que., C. S. Gzowski, ch. engr. (Constr.). Noted Nov. 10.

Contracts Awarded

Foundation — Andover, Mass. — Phillips Andover Academy, concrete foundation for fraternity building, to E. W. Pitman Co., 301 Essex St., Lawrence. Archts. est. $25,000.

Track Work — Boston, Mass. — Transit Dept., 1 Beacon St., special track work Ashmont Sta.-Dorchester Rapid Transit, Items A and C, to W. Wharton, Jr. Co., 938 Old South Bldg., $23,190; and Item B, to Barbour & Stockwell Co., 205 Bway., Cambridge, $3,984. Noted Sept. 29.

Subway Station—Cambridge (br. Boston), **Mass.**—Dept. Pub. Utilities, State House, Boston, altering surface subway station, Harvard Sq., to Guiney & Hanson Constr. Co., 15 School St., Boston. Engrs. est. $25,000. Noted Oct. 6.

Grain Elevator—Framingham, Mass.—Cushing Co., M. M. Post, Broad St., Fitchburg, 1 story, 70 x 100 ft. grain elevator, timber, Hollis St., to H. L. Egan, Newton Pl., Framingham.

Fire Prevention—New York, N. Y.—Bd. Trustees Bellevue & Allied Hospitals, J. J. McGrath, pres., 415 East 26th St., altering and additions to Pavilions "A" and "B," new elevator shaft and elevator in Bellevue Hospital, East 26th St. and East River, to M. D. Lundin Co., 103 East 125th St., $44,730. Noted Nov. 10.

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 40 Lafayette St., constructing Sect. 1 Route 45, Rapid Transit R.R., to Marcus Contg. Co., 305 Bway., $4,722,885; and Sect. 2, Route 45, to Moranti & Raymond, 42 Bway., $5,735,149. Noted Sept. 29.

Culverts—Wash., D. C.—District Comrs., District Bldg., culverts across 16th St., to G. B. Mullin Co., Inc., 1296 Upshur St. N. W.

Gas Line—Louisiana, Arkansas and Missouri—Moody & Seagraves Co., Esperson Bldg., Houston, Tex., will build 432 mi. 24 in. natural gas pipe line from Monroe and Richland, La. to St. Louis, Mo. by own forces. $20,000,000. Dixie-St. Louis Gas Co., subsidiary of owner will operate same.

Traffic Signals, Lighting, System, etc.—Cincinnati, O. — Bd. Rapid Transit, City Hall, traffic signals and lighting system on Central Parkway incl. 41 standards supporting traffic signals and lamps, 23 standards equipped for future traffic signals, twenty-three 4,000 lumens, single units mounted on 20 ft. standards and one hundred and seventy-six 6,000 lumens single units mounted on 15 ft. standards, to Union Gas & Electric Co., 4th and Plum Sts., $69,309. Engrs. est. $105,655.

Coal Handling Device, etc.—Hamilton, O.—Bd. Control, coal handling device for light plant, to Beamont Co., Phila., Pa., $43,050; ash hoppers, to Allen-Sherman-Hoff Co., Cincinnati, $5,632; evaporators, to Gardner Governor Co., Dayton, $10,197; and heaters and surge work, to Elliott Co., Morris Bldg., Phila., Pa., $6,934. Grand total $65,813.

Shed and Loading Platform—St. Louis, Mo.—Mississippi Glass Co., 116 Ferry St., 1 story, 80 x 300 ft. shed and loading platform, 116 Ferry St., to Fruin-Colnon Constr. Co., Merchants Laclede Bldg.; and two 40 ft. cranes, to Harnischfeger Corp., 520 Buder Bldg.

Gas Pipe Line—Texas, New Mexico and Colorado—Canada River Gas Co. (controlled by Prairie Oil & Gas Co., Amarillo, Tex.), laying 87 mi. 22 in. lap welded steel pipe line from field Amarillo, Tex. to pumping station Clayton, N. Mex., to Ford, Bacon & Davis, Inc., 115 Bway., New York City, contractor relet pipe laying, to Oklahoma Contg. Co., Dallas, Tex.; also Colorado Inter-State Gas Co. (controlled by Prairie Oil & Gas Co., Amarillo, Tex), laying 257 mi. lap welded steel pipe from Clayton, N. Mex, to Denver, Colo., 22 in. pipe from Clayton, N. Mex. to Pueblo, Colo., and 20 in. from Pueblo to Denver, Colo., to Ford, Bacon & Davis, Inc., 115 Bway., New York City, contractor relet laying of pipe, to Williams Bros., Inc., Midco Bldg., Tulsa, Okla. Total cost $16,000,000.

Lighting System—Los Angeles, Calif.—Ornamental lighting system on Washington St. and West Blvd., to Electric Lighting Supply Co., 214 West 3rd St., $60,492. Engrs. est. $72,254.

Grain Elevator—Sarnia, Ont.—Sarnia Brewing & Distilling Co., 3 tank grain elevator, rein.-con, and steel. wood pile foundation, to MacDonald Eng. Co., Canadian Pacific Ry. Bldg., Toronto. Engrs. est. $100,000. Noted Nov. 3.

Smelter and Water Power — Winnipeg, Man.—Mining Corp. of Canada will build smelter capable treating 3,000 ton ore per day, also water power development ultimately producing 270,000 hp., on Flin Flon property.

Materials

Bids Desired

Broken Stone—New York, N. Y.—Dec. 7, by P. J. Dooling, comr. Purchase, Municipal Bldg., broken stone to Dept. Plant & Structures.

Liquid Chlorine—Nashville, Tenn.—Dec. 6, by City (Municipal Water Works), 1 year supply liquid chlorine for water plant. H. E. Howse, mayor.

Pipe—Arcadia, Calif.—Dec. 7, by G. C. Meade, city clk., 2,850 ft. 10 in. c.i. pipe.

Copper Wire—Wellington, New Zealand—Jan. 31, by Secretary Stores Div., General Post Office, 2 mi. tinned annealed copper wire, 0.044 in. diam., vulcanized india rubber, insulated, taped and braided.

Bids Received

Pipe, etc. — Los Angeles, Calif. — City Water & Power Comn., from Petroleum Equipment Co., 2800 South Alameda St., 37,000 ft. 1 in. galvanized extra heavy wrought steel pipe, Specification W-836, at $12.20 per C ft., and 5,000 galvanized extra wrought steel nipples, six 20 x 20 in., Specification W-837, at $52.43 per 100.

Contracts Awarded

Aggregate and Culvert Pipe — Iowa — State Hy. Comn., Ames, 32,000 tons coarse aggregate for paving Federal Aid Project 86, Jones Co., to Dubuque Stone Products Co., Dubuque, $59,420, and 19,000 tons for same road, to C. R. Builders Material Co., Cedar Rapids, $38,190; also 68,539 ft. 15- to 24-in. culvert pipe f.o.b. cars various stations, to Klauer Mfg. Co., Dubuque, $70,489. Grand total $168,099.

See proposal advertising on page 134

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Close Bidding on Wallace County (Kan.) Road

Between the low and the high of the bids opened Oct. 21 for the 24-mi. federal aid project 375 A B in Wallace County, Kan., was a spread of 9 per cent. The low bid was $31,602; the engineer's estimate, $37,067—a difference of 14 per cent. There were four bidders, and the difference between high and next to high was $377.

There were four sections on which the low bids were: (1) $6,511; (2) $1,191; (3) $9,229; (4) $14,671. Calling the lowest bidder A and the next bidder B, their differences on the four sections were as follows: (1) $106; (2) $9; (3) $608; (4) $1,014; all in favor of A.

Sect. 1 is an 82-ft. wet crossing, calling for piling, riprap and reinforced concrete. For the concrete, A bid $20, against B's $21, thereby gaining $164; but he nearly balanced this by bidding 6c. per lb. for 25,410 lb. reinforcing steel, against B's 5.5c. A gained again on his bid of $2 per cu. yd. for riprap against B's $3.

A's estimating on gravel and haulage won the contract. On the 17,000 cu. yd. of gravel he estimated 79c. against B's 82c.; for hauling the gravel he estimated 18c. per yard mile, against B's 20c. A is the San-Ore Contracting Co., McPherson; B, Rogers Construction Co., Norton; C, Schultz Contracting Co., Wichita; D, Hall-Hardman Construction Co., Alton; E, Engineer's Estimate. The unit bids are as follows:

SECTION I—(82 FT. 6 IN.) DECK GIRDER

	A	B	C	D	E
128.00 cu.yd. dry excavation	$1.00	$1.00	$2.00	$1.00	$1.50
29.20 cu.yd. wet excavation	6.50	5.00	5.00	7.00	5.00
164.16 cu.yd. Class A concrete	20.00	21.00	22.00	21.00	20.28
10.20 cu.yd. Class D concrete, 1:2:3½	20.00	21.00	22.00	21.00	21.52
5.10 cu.yd. Class E concrete	40.00	40.00	40.00	40.00	35.00
25,430 lb. reinforced steel, in place	.06	.05½	.06	.06	.05½
384 lin.ft. plain timber piling	1.25	1.00	1.20	1.30	.85
173.2 sq.yd. plain riprap	2.00	3.00	3.00	2.00	5.00
... lin.ft. pile cutoff	....	....	....	....	.50
Removal existing structure and wall, (lump sum)	150.00	175.00	200.00	200.00	1,000.00
Totals	$6,511.20	$6,616.81	$7,148.12	$6,769.36	$7,719.78

SECTION II—GRAVEL (Net Length, 0.189 Mi.)

	A	B	C	D	E
2,616.30 cu.yd. earth excavation	$0.30	$0.30	$0.35	$0.35	$0.40
120.00 cu.yd. borrow	.40	.30	.35	.35	.35
168.20 cu.yd. gravel surfacing	.79	.82	.82	.85	.81
168.00 yd. mile haul gravel	.18	.20	.20	.22	.25
260 lin.ft. guard fence mesh R. C. posts	.75	.80	.75	.75	.85
Totals	$1,191.01	$1,200.41	$1,324.23	$1,332.64	$1,487.76

SECTION III—GRAVEL (Net Length 8.011 Mi.)

	A	B	C	D	E
6,961.50 cu.yd. gravel	$0.79	$0.82	$0.84	$0.85	$0.81
15,176 yd. mi. haul gravel	.18	.20	.20	.22	.25
930 lin.ft. guard fence mesh R. C. posts	.75	.80	.75	.75	.85
1,000 lin.ft. snow fence	.30	.35	.70	.30	.35
Totals	$9,228.76	$9,837.63	$10,278.30	$10,253.49	$10,573.32

SECTION IV (Net Length 16.822 Mi.)

	A	B	C	D	E
10,094 cu.yd. sand gravel surface material	$0.79	$0.82	$0.84	$0.85	$0.81
1,000 lin.ft. guard fence	.75	.80	.75	.75	.85
33,040 cu.yd. sand-gravel surface material, yd. mile haul	.18	.20	.20	.22	.25
Totals	$14,671.46	$15,685.05	$15,836.96	$16,598.70	$17,286.14
Grand totals	$31,602.43	$33,340.00	$34,588.00	$34,954.19	$37,067.00

Engineering News-Record, Issue of December 1, 1927

Canadian Unit Cost Data

Cost of separate items such as pipe laying, trenching, grubbing, clearing right-of-way, etc., on mountain highway construction in Canadian National parks, is given in concise form in the following table. Prices and wage rates are in Canadian currency.

	Per Month
Foremen	$175.00@$200.00
Mechanical equipment operators	125.00
Teamsters	120.00
Truck drivers	120.00
	Per Hour
Bridge carpenters	$0.70
Jackhammer operators	.70
Gradermen	.60
Pipe layers	.60
Caulkers	.60
Jackhammer operators' helpers	.50
Laborers	.45

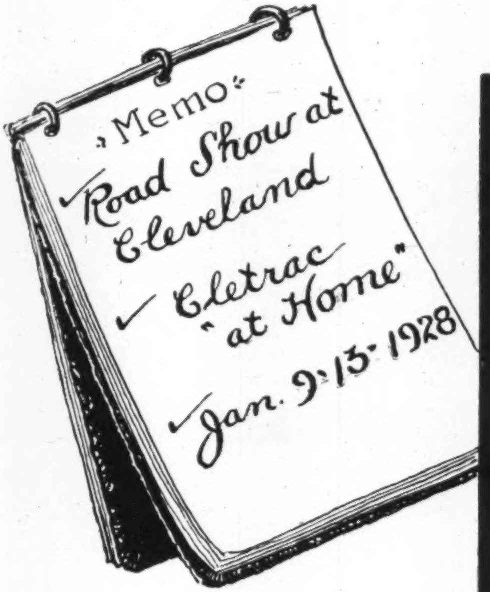
UNIT COST DATA ON CANADIAN NATIONAL PARKS—MOUNTAIN HIGHWAY CONSTRUCTION

	Unit Price
Clearing right-of-way, average of 8 large projects, per acre	$160.00
Grubbing, average of 11 large projects, per acre	190.00
Excavation and grading, average of 12 large projects; solid rock, 15%; loose rock, 30%; earth, 55%, per cu.yd.	1.01½
Natural timber in place in cribs, culverts and other structures, average for 500,000 lin.ft., per lin.ft.	.088
Sawed timber trusses, average of 920,000 ft. b.m., in place:	
Labor cost of framing and erecting, including falsework, per M. ft. b.m.	40.00
Lumber cost, per M. ft. b.m.	41.00
Steel cost, per lb.	.079

UNIT COST DATA ON CANADIAN NATIONAL PARKS IN ALBERTA

	Unit Price
Driving rock tunnel, 7x8x580-ft., Rocky Mountain quartzite, per cu.yd.	$15.40
Per lin.ft.	30.26
Excavating water trench, boulder clay, 50% loose rock, average depth, 8 ft.:	
Hand excavation, per cu.yd.	1.65
Gasoline excavator, per cu.yd.	.26
Pipe laying and connecting, 4, 6 and 8-in. cast-iron pipe, including labor costs, per lin.ft.	.27
Concrete dam, gravity section, 1:2:4, gravel aggregate, per cu.yd.	9.30

UNIT PRICES *Continued on page 282a*


Memo:-
✓ Road Show at Cleveland
✓ Cletrac "at Home"
✓ Jan. 9-13-1928

When You Visit the Road Show at Cleveland

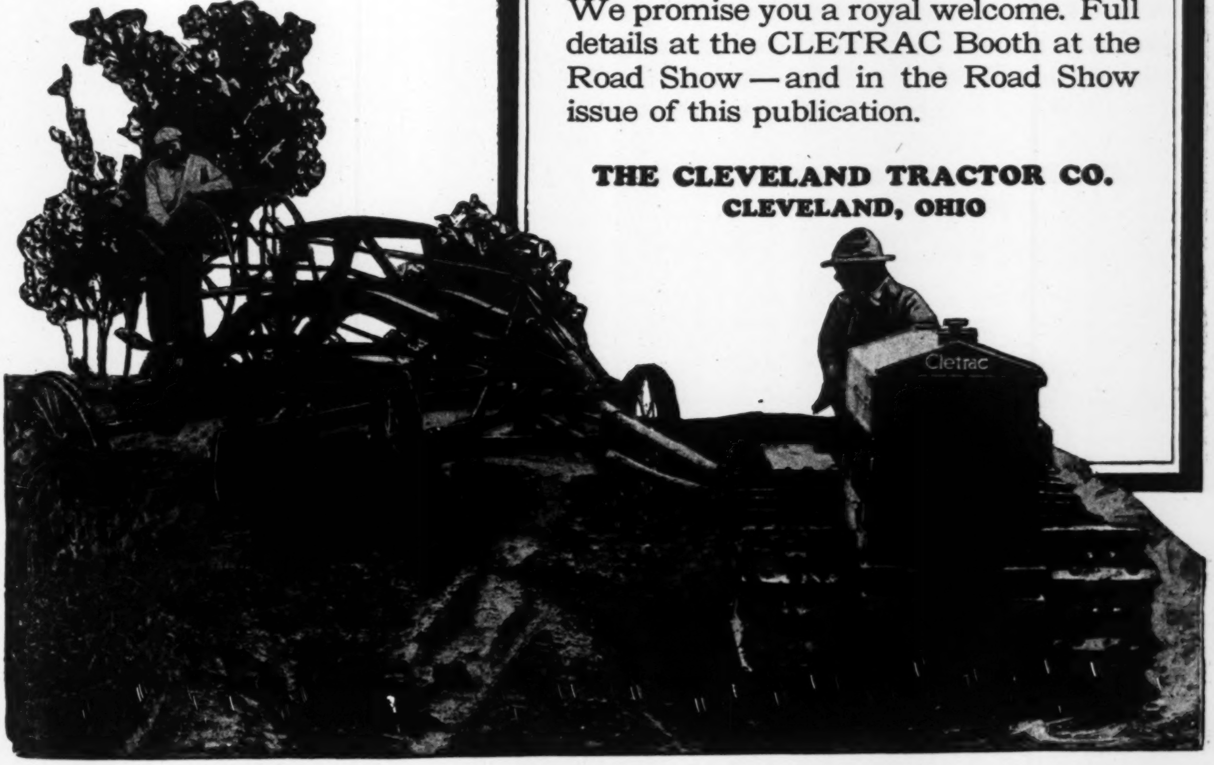
January 9-13

COME to Cleveland expecting to find the best and biggest Road Show you've ever attended.

You'll Not Be Disappointed!

And come with full expectations of a special treat from the makers of CLETRAC CRAWLER TRACTORS. Again we say, you'll not be disappointed. Cleveland is the home of CLETRAC. We promise you a royal welcome. Full details at the CLETRAC Booth at the Road Show—and in the Road Show issue of this publication.

THE CLEVELAND TRACTOR CO.
CLEVELAND, OHIO



UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Labor for Installing Water System for Denville Township, N. J.

Estimates of labor cost to install a water system for Denville Township, N. J., ranged from $54,117 to $133,287—a spread of 147 per cent. Contract for the materials, including pipe, fittings, valves and hydrants, was let separately. The contractor will unload, transport and place the materials.

The 67,000 ft. of 4- to 8-in. pipe will be laid with 4-ft. cover. Rock excavation will be paid for as an extra at the price bid in the proposal. These prices range from $6 to $25, with the low bidder for the entire job bidding $10.

On the two crossings of Rockaway River the main will be suspended under the bridge truss, and insulated. Estimates for the 8-in. Venturi meter to be furnished and installed by the contractor ranged from $300 to $1,800. The low bidder bid $850.

The bidders are: (A) C. Plansoen, 25 Hobart Pl., Garfield, (awarded contract); (B) C. DeFazaio, 109 Whittsley Ave., E. Orange; (C) V. Francisco, Llanard, Pa.; (D) R. F. Relly, Easton, Pa.; (E) W. G. Fritz, Inc., W. Orange; (F) Pinzimenti Bros., Ridgewood; (G) P. J. Shea, Keyport; (H) Carmine & DiSimone, Orange; (I) J. F. Murphy Contracting Co., 236 W. 116th St., New York City. The unit bids are as follows:

	A	B	C	D	E	F	G	H	I
32,000 lin.ft. 8-in. c.i. pipe including joint mat., per ft.	$0.58	$0.65	$0.66	$0.79	$0.77	$0.70	$0.65	$0.98	$1.33
30,000 lin.ft. 6-in. c.i. pipe, including joint mat., per ft.	.53	.60	.64	.69	.64	.65	.65	.76	1.30
5,000 lin.ft. 4-in. c.i. pipe, including joint mat., per ft.	.49	.60	.62	.68	.57	.60	.65	.65	1.26
21 tons fittings in place, per lb.	.02	10.00 (ton)	.02	.01	.01½	.02½	.03	....	.04
3 R.R. crossings, double, each	250.00	300.00	250.00	150.00	480.00	300.00	250.00	150.00	1,400.00
2 R.R. crossings, single, each	150.00	200.00	150.00	100.00	320.00	200.00	200.00	100.00	840.00
2 river crossings, each	200.00	300.00	150.00	300.00	350.00	300.00	1,500.00	500.00	700.00
8 4-in. hydrants, each	2.50	10.00	4.00	10.00	10.00	10.00	10.00	12.00	35.00
8 4-in. hydrants with valves, alt. A, each	4.00	10.00	5.00	10.00	10.00	10.00	8.00	12.00	42.00
41 6-in. hydrants, each	3.00	10.00	4.00	10.50	10.00	15.00	10.00	15.00	35.00
41 6-in. hydrants with valves, alt. B, each	4.50	10.00	5.00	10.50	10.00	15.00	8.00	15.00	42.00
6 4-in. gate valves, each	2.00	5.00	1.50	2.50	4.00	5.00	10.00	4.00	10.00
63 6-in. gate valves, each	2.25	5.00	2.00	2.50	5.00	5.00	10.00	5.00	14.00
18 8-in. gate valves, each	3.00	5.00	2.50	5.00	6.00	5.00	10.00	8.00	14.00
Rock excav., alt. C., per cu.yd.	10.00	25.00	9.45	6.00	12.00	15.00	7.00	11.00	8.00
1 8-in. Venturi meter	850.00	300.00	900.00	1,000.00	970.00	1,500.00	1,500.00	1,110.00	1,800.00
¾-in. house service lines	.75	.55	.82	.85	.98	1.25	1.50	1.05	1.65
Totals	$54,117	$59,531	$61,891	$68,633	$70,137	$73,675	$79,212	$82,175	$133,287
Alternatives A and B deducted	53,901	59,033	61,646	68,123	69,647	72,980	78,820	81,464	131,229
Add for rock excav. 2,000 cu.yd. at unit price C	73,901	109,033	80,546	80,123	93,647	102,980	92,820	103,464	147,229

Engineering News-Record, Issue of December 1, 1927

Dam—Seattle, Wash.

Bids were opened by City, Sept. 9, for constructing concrete arch dam across the Skagit River at Diablo Canyon (part of the Skagit hydro-electric project under development by the city) from (A) Winston Bros. Co., 801 Railway Exchange Bldg., Minneapolis, Minn., (awarded contract); (B) A. Guthrie & Co., Inc., Portland, Ore.; (C) Puget Sound Bridge & Dredging Co., Seattle. The unit bids are as follows:

	A	B	C
River diversion (lump sum)	$190,000.00	$235,000.00	$358,000.00
63,000 cu.yd. solid rock excav	3.50	3.00	5.00
3,000 cu.yd. solid rock excav	6.75	10.00	8.50
7,000 cu.yd. solid rock excav	6.75	9.50	8.50
12,000 cu.yd. earth excav	3.50	3.00	5.00
210,000 cu.yd. conc. Class A	6.97	7.85	8.00
20,000 cu.yd. conc. Class B	7.40	10.25	9.50
12,000 cu.yd. conc. Class C	9.25	19.00	10.00
20,000 lb. copper stops	.53	.50	.50
1,600 lin.ft. asphalt	1.73	5.00	2.50
2,000 bbl. cement	7.20	6.00	5.00
300 cu.yd. sand for grout	6.75	2.00	7.00
1,000 lin.ft. drilling	2.50	3.00	.50
3,000 lin.ft. 2 in. wrought steel pipe	.65	1.50	.50
15,000 lb. wrought steel sheets	.20	.30	.10
510,000 lb. reinf. steel	.403	.045	.06
800,000 lb. spillway gates	.0175	.025	.025
73,000 lb. Johnson valves	.05	.04	.05
240,000 lb. caterpillar gates	.05	.025	.045
90,000 lb. butterfly valves	.05	.04	.05
50,000 lb. gate hoists	.05	.03	.04
368,000 lb. trash rocks	.015	.025	.025
15,000 lb. trash rocks	.025	.04	.05
132,000 lb. steel	.035	.03	.025
10,000 lb. steel castings	.05	.025	.05
10,000 lb. iron castings	.05	.025	.05
320,000 lb. steel pipes	.035	.03	.05
1,000 gal. applying waterproofing	1.50	4.00	5.00
Totals	$2,546,338	$2,770,830	$2,944,400

Engineering News-Record, Issue of December 1; 1927.

Water Supply System—Irving, Kan.

Bids were opened by City (lowest four) for installing water supply system, from (A) Ray Knox Construction Co., Clifton, (awarded contract); (B) Reed & Wheelock, Clay Center; (C) Ralph Hybskmann, Seneca; (D) Howard Construction Co., Tecumseh, Nebr. The unit bids are as follows:

Section A—Cast Iron Pipe and Special Castings Furnishing f.o.b. Irving, Kansas				
16 ft. Lengths	A	B	C	D
37.38 tons 6 in. class B	$42.80	$43.00	$43.00	$44.00
120.84 ton 4 in. class B	45.00	45.00	45.00	46.00
4,990 lin.ft. 2 in. for 200 lb. pres	.20	.22	.24	.25
5,500 lbs. special castings	.06	.06	.06	.075
Section B-Hydrants and Valves				
6 in. gate valves	26.00	27.50	28.00	30.00
8 4 in. gate valves	15.00	17.50	18.00	20.00
15 2 way 2½ in. fire hydrants	54.00	55.00	55.00	60.00
Section C				
Tank and tower 30,000 gal. on 110 ft. tower	1034.00	1075.00	1081.00	1180.00
Section D—General Construction Trenching and Laying				
2,300 lin.ft. 6–16 in. lengths c.i. pipe	.33	.35	.34	.36
11,400 lin.ft. 4–16 in. lengths c.i. pipe	.28	.30	.32	.30
4,990 lin.ft. 2 in. c.i pipe	.22	.25	.26	.26
Setting valves four 6 in	2.00	3.00	3.00	3.00
Setting valves eight 4 in	2.00	2.50	3.00	2.50
Pumphouse (lump sum)	700.00	900.00	800.00	700.00
Pumphouse foundation (lump sum)	5877.80	6499.50	66.19	6414.40
Totals	$20,640	$21,614	$22,257	$21,981

Engineering News-Record, Issue of December 1, 1927.

Constr. News page 282a

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following

Proposed Work

Waterworks, Oakland, Calif., East Bay Municipal Utility Dist. voted bonds, $26,000,000.

Schools, Chicago, Ill., Bd. Educ. plans, $17,500,000.

Bridge, Sarnia, Ont., Sarnia, Ont., and Port Huron, Mich., making preliminary plans, $3,500,000.

Bridge, St. Louis, Mo., Syndicate making preliminary plans, $3,000,000.

Irrigation, Texas, Red Bluff Irrigation Dist. plans, $3,000,000.

Newspaper office and plant, Toronto, Ont., Star Publishing Co. soon takes bids superstructure, $3,000,000.

Cement plant, Port Arkansas, Tex., California Cement Assn. purchased site and plan, $2,500,000.

University, Little Rock, Arkansas, Methodist Church making preliminary plans, $2,500,000 or more.

Bridge, Illinois and Kentucky, E. W. Elliott & Assoc., Chicago, making preliminary plans, $2,500,000.

Office, Toronto, Ont., Holt-Grundy & Co., Montreal, having plans prepared, $2,250,000.

Roads, Canton, Miss., Madison Co. making preliminary plans paving, $2,000,000.

Oil pipe line, Texas, West Texas Pipe Line plans, $2,000,000.

City hall, New Haven, Conn., City receiving competitive plans, $1,750,000.

Apartment, Cincinnati, O., Ohio Building and Constr. Co. plan, $1,500,000.

Hospital, New York, N. Y., Babies Hospital having plans prepared, $1,400,000.

Highways, Dallas, Tex., Dallas Co. making plans, $1,345,249.

Studio, New York, N. Y., W. Russell having plans made, $1,200,000.

Highways, Ventura Co., Calif., plans Tri-County Highway, $1,195,000.

Bids Desired

High school, Chicago, Ill., Dec. 15, by Bd. Educ., $1,500,000.

Office, Birmingham, Mich., A. Kahn, archt., taking bids, $1,000,000.

Bids Received

School, Mt. Washington, O., St. Gregorys Seminary from J. Roche Constr. Co., Cincinnati, $1,500,000.

High school, Cleveland, O., Bd. Educ., from C. Shutrump & Sons Co., $1,198,200.

Contracts Awarded

Hotel, Toronto, Ont., Canadian Pacific Ry., Montreal, to Hamilton Bridge Works, Ltd., McGregor & McIntyre, and Dominion Bridge Co. Total est. $10,000,000.

Hotel and theatre, New York, N. Y., Havermeyer Constr. Co., steel to Levering & Garrigues, concrete to Corbetta Concrete Corp., and plumbing to L. Black. Archts. est. $5,000,000.

Natural gas pipe line, etc., Texas, Stamford Gas Co. to Skaggs Bros., Stamford, approximately $2,575,000.

Apartment, New York, N. Y., One Thousand and Seventy Park Ave., Inc., will build, separate contracts, $1,800,000.

Apartment, New York, N. Y., Forty West 77th Street Corp. will build, by separate contracts, $1,500,000.

Apartment hotel, New York, N. Y., Two Hundred Twenty-Nine East 79th Street Corp. will build, by separate contracts, $1,000,000.

Apartment, New York, N. Y., A. D'Antona will build, by separate contracts, $1,000,000.

News of the Week

Waterworks

Proposed Work

Mass., Attleboro—Plans extending waterworks. $200,000.

Mass., Woburn—City appropriated $15,000 12 in. mains in Main, Nichols, Poole and Webster Sts. Private plans.

Mich., Bellevue — Making plans water distribution system, incl. c.i. mains, specials, hydrants, etc. $50,000. Burd, Giffels & Hamilton, 421 Kelsey Bldg., Grand Rapids, engrs.

Kan., Arlington — Making preliminary plans waterworks, distribution and sewerage system. Engineer not selected.

Kan., Dexter — Voted $30,000 bonds, waterworks and distributing system. W. B. Rollins & Co., 339 Railway Exch. Bldg., Kansas City, Mo. engrs. Noted Oct. 6.

Mo., Cabool—Voted $49,000 bonds, 100,000 gal. rein.-con. reservoir, deep well, 60,000 gal. tank on tower, etc. A. H. Kendricks, Seymour, engr.

Mo., Marceline—Takes bids about Dec. 27, waterworks improvements, incl. filtration and softening plant. $70,000. Black & Veatch, Mutual Bldg., Kansas City, engrs. Noted Nov. 17.

Ark., Mulberry — Making preliminary plans waterworks, distribution and sewerage systems. $100,000.

Tex., Bellville—Voted $55,000 bonds, improving waterworks, incl. distributing system pipe, pumping equipment, etc. Address Mayor.

Tex., Carrizo Springs — Voted $50,000 bonds, waterworks, distribution system, probably well with pumping unit. Address B. L. Jeffrey, mayor.

Tex., Galveston—See "Unclassified."

Tex., La Grange—La Grange Light, Ice & Water Co. plans extending mains and replacing mains in business district with larger pipe. Address Mayor. Engineer selected soon.

Okla., Bristow—Voted $50,000 bonds, extending waterworks, incl. triplex pump and motor. J. Gano, Bristow, engr.

Okla., Canute—Made preliminary plans extending 10,300 ft. 4 and 6 in. mains in various streets. $16,000. Engineer not selected.

Okla., Cheyenne—Making plans waterworks. $40,000. Sherman Iron Wks., 18 East Main St., Oklahoma City, engrs. Noted Nov. 3.

Okla., Gotebo—Voted $24,000 bonds, new water supply. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Aug. 18.

Okla., Meeker—Voted $32,000 bonds, complete waterworks. E. W. Gantt, 1116 West Main St., Oklahoma City, engrs. Noted June 16.

Okla., Mooreland — Making plans new waterworks. $18,000. E. A. Jones, Enid, engr. Noted July 7.

Okla., Mountain View—Making plans soft water supply, incl. impounding reservoir, dam, pipe line and pumps. $35,000. A. B. Carson, Madill, engr.

Okla., Oklahoma City—Making preliminary plans 8,200 ft. 10 in. c.i. mains in Billen Ave. $17,000. B. M. Hart, City Hall, engr.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Calif., Oakland — East Bay Municipal Utility Dist. voted $26,600,000 bonds, constructing or purchasing water distributing system.

Calif., Santa Clara—Making plans extending 87,794 ft. 4- to 14-in. c.i. mains, etc. in various streets. H. B. Fisher, Growers Bank Bldg., San Jose, engr. Noted Aug. 25.

Bids Desired

N. Y., Long Island City — Dec. 13, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 34th, 47th, 48th, and 50th Aves., 95th, 98th, 111th Sts., etc., here.

Minn., Minneapolis—Dec. 22, by F. S. Gram, city purch. agt., 20 m.g. pump and motor for City Water Dept. N. W. Elsberg, city engr. Noted Nov. 3.

Tex., Boerne — Dec. 23, by City Comn., waterworks, incl. drilling and equipping water well. $7,000 (mostly materials). Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Nov. 3.

Tex., Hermleigh—Taking bids and open same about Dec. 8, waterworks, incl. 50,000 gal. tank on 100 ft. tower well, water distributing system, etc: $30,000. Private plans.

Wash., Port Townsend — Dec. 20 (extended date), by City Council, 12 mi. unit water supply line from Big Quilcene River to here. Noted Dec. 1.

Calif., Madera—Dec. 19, by J. Wakefield, city clk., extending 2,879 ft. 6 or 8 in. c.i. mains, etc., in various streets.

Contracts Awarded

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Nassau Blvd., 25th, 76th and 60th Aves., 35th and 46th Sts., etc., here, to B. Costanzo, 114-15 117th St., $20,000. Noted Nov. 17.

W. Va., Parkersburg — Drilling 18 new wells to furnish 600,000 gal. water supply, to Layne-Atlantic Co., Norfolk, Va., $202,000. Engrs. est. $600,000. Noted Oct. 13.

O., Bay (br. Cleveland)—See "Sewers."

O., Cleveland—Cuyahoga Co., 22,000 ft. 6 and 12 in. c.i. mains in Wooster Pike and Depot Rds., to Joseph, Kalill & Jackson, Prospect-4th Bldg., $83,100; and 13,000 ft. 6 and 8 in. in Briar Cliff Subdivision, to Sewer Constr. Co., 3412 East 114th St., $26,866. Noted Nov. 3 and 10.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, 9 low pressure electrically and hand operated double disc and 5 high pressure valves for Missouri River Waterworks Station at Howards Bend, St. Louis Co., to Michigan Valve & Fdry. Co., 3631 Parking St., Detroit, Mich., $40,530; also manifold chamber, venturi meter box, steel discharging line, installing valves, etc., to Pittsburgh-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., $79,464. Noted Oct. 27.

Tex., Albany—City Council, c/o F. W. Alexander, mayor, constructing rein.-con. settling basins, filter plant and c.i. mains in various streets, to A. M. Barker, 303

See proposal advertising on page 145

TRADE "LEADITE" MARK

Registered U. S. Pat. Office

Laid 10 miles of water main—and satisfactory in every particular!

—said a waterworks engineer of national reputation, referring to this installation

Here is the story:—

THE Second Taxing District, South Norwalk, Connecticut, U.S.A., has just completed the installation of approximately ten miles of cast iron bell and spigot water mains, varying in size from 6" to 18". The work included the placing of about fifty cutting-in-tees on existing piping and their connection to new work.

Leadite was selected for jointing material after receiving competitive bids for laying with lead.

The total amount of the successful bids for all work, excepting the furnishing of the cast iron pipe, specials and valves, was as follows:

Lead Joints	$155,631
LEADITE Joints	142,535
Difference	$ 13,096
Saving in favor of **LEADITE**	8.4%

The work was performed by contractors experienced in the use of this material and was satisfactory in every particular.

Specifications required that after laying, the pipe should be tested for leakage under water pressures varying from 40 pounds to 115 pounds per square inch, and that the leakage should not exceed two gallons per 24 hours per linear foot of joint. The results of the tests were well within this limit.

This work was under the direction and supervision of Mr. Nicholas S. Hill, Jr., Consulting Engineer, 112 East 19th Street, New York, N.Y., U. S. A.

Leadite is used extensively by thousands of water works engineers, superintendents and contractors with excellent results.

Specify and use
LEADITE
It saves at least 75%

Be sure it is
LEADITE
and accept no imitations

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA., U. S. A.

NO CAULKING

Waterworks (Continued)

Foster St., Dallas, $26,751. Engrs. est. $28,000.

Tex., San Antonio—City Comrs. & Water Bd., waterworks improvement, new pumping unit, to H. A. Paine Co., Cotton Exch. Bldg., Houston, $38,842. Noted Oct. 13.

Calif., Burbank—For 13,000 ft. 4 in. and 7,500 ft. 6 in. pipe to Pacific States Cast Iron Pipe Co., Los Angeles; also 1.500 ft. 8 in. pipe, to Amer. Cast Iron Pipe Co., Rives-Strong Bldg., Los Angeles.

Sewers

Proposed Work

Mass., Waltham—Dept. Pub. Wks., Boston, and cities of Belmont and Waltham plan sewerage works in Trapelo Rd. and Mill St., in Belmont and Waltham. $80,000. Private plans.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., rejected bids Nov. 23, sewer in Arnow Ave. Will readvertise. Noted Nov.

N. J., Camden—Dept. Pub. Wks., W. D. Sayres, Jr., City Hall, making plans sewage disposal, 3 m.g. capacity, North Treatment Works, 32nd and Farragut Sts. $325,000. Remington & Vosbury, 509 Cooper St., engrs.

N. J., Newton—Town Com. making plans reconstructing sewage disposal plant, incl. tanks, at Clinton and Sparta Sts. $40,000.

O., Euclid (br. Cleveland) — Takes bids after Mar. 1, 7,000 ft. 84 and 96 in. concrete and segmental block sewer in Babbitt Rd. $350,000. F. A. Thomas, Town Hall, engr.

Ind., New Albany—Plans sewerage system. To exceed $25,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Ill., St. Elmo—Making preliminary plans complete sewerage system and disposal plant. $50,000. Caldwell Eng. Co., 36 North Side Sq., Jacksonville, engrs.

Ia., Traer—Making preliminary plans and schedules extending sewerage system. $50,000. H. L. Daniel, Traer, engr.

Mo., Desoto—Takes bids about Jan. 1, complete sewerage system. $200,000. C. A. Haskins, 822 Finance Bldg., Kansas City, engr. Noted Sept. 29.

Mo., Farmington—N. E. Bugg, Steward Hospital, rejected bids Nov. 19, complete sewage disposal plant on grounds State Hospital 4. Will readvertise. Black & Veatch, Mutual Bldg., Kansas City, engrs. Noted Nov. 10.

Mo., Springfield—Soon takes bids 17,000 ft. 12- to 24-in. vitr. clay sewers, disposal plant, incl. 2 digestor chambers, clarifiers, trickling sprinklers, etc., in northwestern section city. $185,000. Russell & Axon, 408 McDaniel Bldg., engrs.

Mo., Springfield—City Clerk takes bids about Jan. 15, approximately 15,000 ft. 18 and 24 in. vitr. clay sewers in various streets. $60,000. Russell & Axon, 408 McDaniel Bldg., engrs. Noted Dec. 1.

Tex., Galveston—See "Unclassified."

Okla., Bristow—Voted $68,200 bonds, extending sanitary sewerage system. J. Gano, Bristow, engr. Noted Sept. 8.

Okla., Duncan—Making preliminary plans extending sanitary sewerage system, in Cedar St. $25,000. H. J. Wilkins, Duncan, engr.

Okla., Mountain View—Making plans sewerage system, incl. disposal plant. $35,000. A. B. Carson, Madill, engr.

Okla., Taft—Made preliminary plans 4 mi. sewerage system. $25,000. Engineer not selected.

Okla., Tulsa—Making plans 17,000 lin.ft. 8 and 10 in. sewers in 30th, Cincinnati, Boulder and Peoria Sts. $30,000. C. Schultz, City Hall, engr.

Calif., Los Angeles—Plans 8- to 10-in. vitr. clay sewers in Colgate and Blackburn Aves., etc. To exceed $25,000.

Calif., San Francisco—Making specifications sewage pump and appurtenances for Pine Lake Park Pumping Station. M. M. O'Shaughnessy, city engr.

Bids Desired

N. Y., Long Island City—Dec. 13, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewer in Brinkerhoff and 18th Aves.

N. Y., New York—Dec. 16, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves.; sewers in Esplanade (east side), Yates, Murdock and Putman Aves.

N. J., Seaside Heights — Dec. 24, by Mayor and Boro Council, Boro Hall, M. A. Tindall, clk., 7.6 mi. 8- to 15-in. sanitary and 1.8 mi. 10- to 15-in. storm water sewers in various streets. H. M. Herbert, boro engr. W. H. Boardman, 426 Walnut St., Phila., Pa., associated engr.; adv. E. N.-R. Dec. 8. Noted Nov. 10.

Md., Baltimore—Dec. 14, by Bd. Awards, sanitary sewers and storm drains in Sewer Dist. 34, Storm Water Contr. 95. M. J. Ruark, 311 Courtland St., sewerage engr.

O., Akron—Dec. 16, by W. F. Peters, dir. Pub. Serv., 3,130 ft. 30- to 66-in, brick or segmental block sewer in Mull Ave. $51,900. Former contract rescinded. J. E. Root, Municipal Bldg., engr.

O., Cleveland—Dec. 14, by Bd. Comrs. Cuyahoga Co., 18,000 ft. 8- to 30-in. rein.-con., vitr. clay or segmental block sewer in State Rd.; and 8,200 ft. 12- to 36-in. concrete or segmental block sewer in Bway. F. Williams, Court House, engr.

Ind., Peru—Dec. 13, by Common Council, trunk sewer in Cass St., Impvt. Resolution 9. L. E. Roberts, city engr.

Mich., Grosse Ile—Dec. 16, by G. Dingman, drain comr. Wayne Co., County Bldg., Detroit, 10,435 ft. 12- to 30-in. sewer, 29 manholes, 1 diversion chamber, septic tank, 11 catchbasins and head wall in Church St. and Meridan Rd., Grosse Ile Twp., here. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Tex., Alamo Heights—Taking bids approximately 10 mi. sewers and laterals in various streets. $150,000. S. F. Crecelius, 201 Torcido Dr., San Antonio, engr. Noted May 19.

Contracts Awarded

N. Y., Hempstead—Village, **70,000 ft.** sewers in various streets, to **E. B. Edgar,** 166 North Franklin St., $261,832.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Arlington Ave., to Coddington Ave. Contg. Co., 2883 Coddington Ave., $4,994; Whitlock Ave., to Slack & Slack Corp., 134 Westchester Sq., $11,017; and in Ma e Ave., to F. Pestone, 1657 Colden Ave., $6,947. Grand total $22,958.

D. C., Wash.—District Comrs., District Bldg., to M. Cain Co., Wash., D. C., sewer in Minnesota Ave. and 19th St. $27,765, South Dakota Ave. and 22nd St. N.E. $15,563, and Anacostia Rd. N.E., $2,177; to G. B. McMullin Co., 1296 Upshur St. N.W., in Michigan Ave. and 13th St., N.E. $15,027, Michigan Ave. and Shepherd St. N.E. $8,062, 27th St. N.W. $3,558, Longfellow St. N.W. $1,778, 28th St. $1,630, Veazey St. N.W. $1,511; to McCandlish Co. 1215 Howard Ave., 30th St. and Central Ave. $2,322. Grand total $79,404. Noted Nov. 17.

Md., Baltimore — Bd. Awards, sanitary sewers and storm drains in Dist. J-7, Sanitary Contr. 246, to P. Marocco, 3700 Forrest Park Ave., $67,834. Noted Nov. 17.

N. C., Durham—Sewage disposal plant, incl. sludge digesters, trickling filters, incinerators, etc. on Third Fork Creek, to McClellan Constr. Co., Charlotte, $165,000; also 5½ mi. 10- to 18-in. outfall line, to Conard Constr. Co. $46,718, sewage disposal plant, to Elliott Building Co., Hickory, $25,000, c.i. pipe fittings, to Glamorgan Pipe & Fdry. Co. $7,636, valves, to Grinnell Co., North Charlotte St., Charlotte $558, reinforcing, to Knoxville Iron Co., Lonsdale Ave., Knoxville, Tenn. $1,404, centrifugal pump, to Morris Machine Wks., Realty Bldg., Charlotte $736, and terra cotta pipe, to Columbia Clay Wks., Columbia, S. C. $16,776, all forgoing on New Hope Creek. Grand total $63,828.

O., Bay (br. Cleveland)—Village, to George & Ameen Co., Erie Bldg., Cleveland, sewer in East Oviatt Rd., $7,477; to Sheets & Kunkle Co., Columbus, concrete sewer in Glen Park Rd., $20,533; to Sprague & Burkhardt, 11811 Browning Ave., Cleveland, sewer in Maple Dr. $3,954, and Electric Dr. $5,353, also water-main in Maple Dr. $1,985 and to Kassouff & Co., 2600 Althan Ave., Cleveland, in East Oviatt Rd. $4,498, and Canterbury Rd. $8,007. Grand total $51,807.

O., Geneva-on-the-Lake (Summer P. O.) —Sewers in various streets, to Curro & Whittaker, Engineers Bldg., Cleveland, $95,268, sewage treatment plant, to Freeman & Jones, Inc., 5716 Euclid Ave., Cleveland, $42,960; and outfall sewer, to Amer. Constr. Co., Marion Bldg., Cleveland, $24,625. Grand total $162,853.

O., Lyndhurst (br. Cleveland) — Sewer, etc., in Green Rd., to S. N. Khury, 650 East 91st St., Cleveland, $33,012.

Mich., Halfway—A. J. Wendt, village clk., 27,595 ft. 12- to 72-in. concrete sewers, 222 manholes, 400 catch basins in Sewer Dist. 5, to Waterway Constr. Co., 516 Transportation Bldg., Detroit, $302,270.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, tile sewers with brick manholes and brick catch-basins in portions South Green St., to F. A. Coda, 2710 South Wells St., West 96th St., to A. Scully, 5467 Kamerling St., Sacramento Ave., to O. Scully, 7658 Loflin Ave., West 81st Pl., South Kilbourne and South Talman Aves., to G. Barry, Chicago, South Kilpatrick Ave., to G. Anderson, Chicago, and in Green Bay Ave., to J. Tiritilli, 732 South Ashland Ave.; drains in portions South Keating, Hermosa, Homewood North Sacramento, North Francisco, North Kilpatrick, North Keating, Peterson and Lamont Aves., West 71st, North Richmond, and North Mozart Sts., to N. Ranieri, 5036 Montana Ave., South Green and South Peoria Sts., Ellis, Dobson, Greenwood and University Aves., to M. Murphy, 5854 South Michigan Ave., North Troy St., North Albany and North Sacramento Aves., to Angelo Scully, 4504 Wrightwood Ave., and in Lunt, Greenleaf and Estes Aves., to A. Santucci, 916 South Ashland Blvd.

Ill., Madison—Complete sewerage system in Newport Sewer Dist., to J. Krill, Granite City. Engrs. est. $25,000.

Mo., St. Joseph—For 18- to 24-in. sewers in 24th, Felix, 25th and Locust Sts., to O. H. Schmidt, 1st Natl. Bank Bldg., $27,947. Noted Nov. 3.

Tex., Corpus Christi—See "Streets and Roads."

Tex., Spearman — City, c/o Secretary, sewerage system and disposal plant, to Northwestern Eng. Co., Casper, Wyo., approximately $50,000. Noted Sept. 29.

Wash., Yakima—Unit 2, sewage disposal plant, to Standard Asphalt Paving Co., North 522 Cedar St., Spokane, $35,479.

Waste Disposal

Proposed Work

N. Y., Troy—Bd. Contr. & Supply, City Hall, returned bids unopened incinerator plant. Work held up by injunction until spring. Noted Oct. 6.

O., Cleveland—City, W. R. Hopkins, city mgr., having plans prepared by C. D. Bartlett & Snow Co., 6200 Harvard Ave., 1, 2 and 3 story, garbage reduction plant, brick, steel and concrete, Cuyahoga Valley. $900,000.

Ky., Ashland—Voted $65,000 bonds, incinerator.

Bridges

Proposed Work

New York and Vermont — Lake Champlain Bridge Comn., N. Y. Ferris, chn., Ticonderoga, making plans 6 span 2,220 ft. steel bridge on concrete pier over Lake Champlain. $900,000. Fay, Spofford & Thorndike, 44 School St., Boston, Mass., engrs. Noted Mar. 20, 1924.

Tenn., Perryville—State Dept. Highways & Pub. Wks., Nashville, takes bids in January, rein.-con. and steel bridge over Tennessee River, Perry Co., near here. $900,000. C. N. Bass, highway comr. Noted Oct. 27 under "Tennessee."

Illinois and Kentucky—E. M. Elliott & associates, 360 North Michigan Ave., Chicago, Ill., making preliminary plans rein.-con. and steel bridge over Ohio River connecting Illinois Highway 2 and Kentucky Highway 147. $2,500,000. Private plans.

Kan., Wichita—See "Streets and Roads."

Neb., Alda—Comrs. Hall Co., J. E. Lyle, clk., Grand Island, plans concrete and steel bridge over Platte River, south of here. $80,000.

Mo., St. Louis—Syndicate forming, c/o S. Flannagan, pres., Carondelet Impvt. Assn., 506 Olive St., making preliminary plans rein.-con. and steel combination railroad, vehicular and pedestrian bridge over Mississippi River. $3,000,000.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making preliminary plans replacing present bridge with rein.-con. and steel viaduct over railroad tracks in Mill Creek Valley between Adams and Papin Sts. $500,000. L. R. Bowen, 301 City Hall, engr.

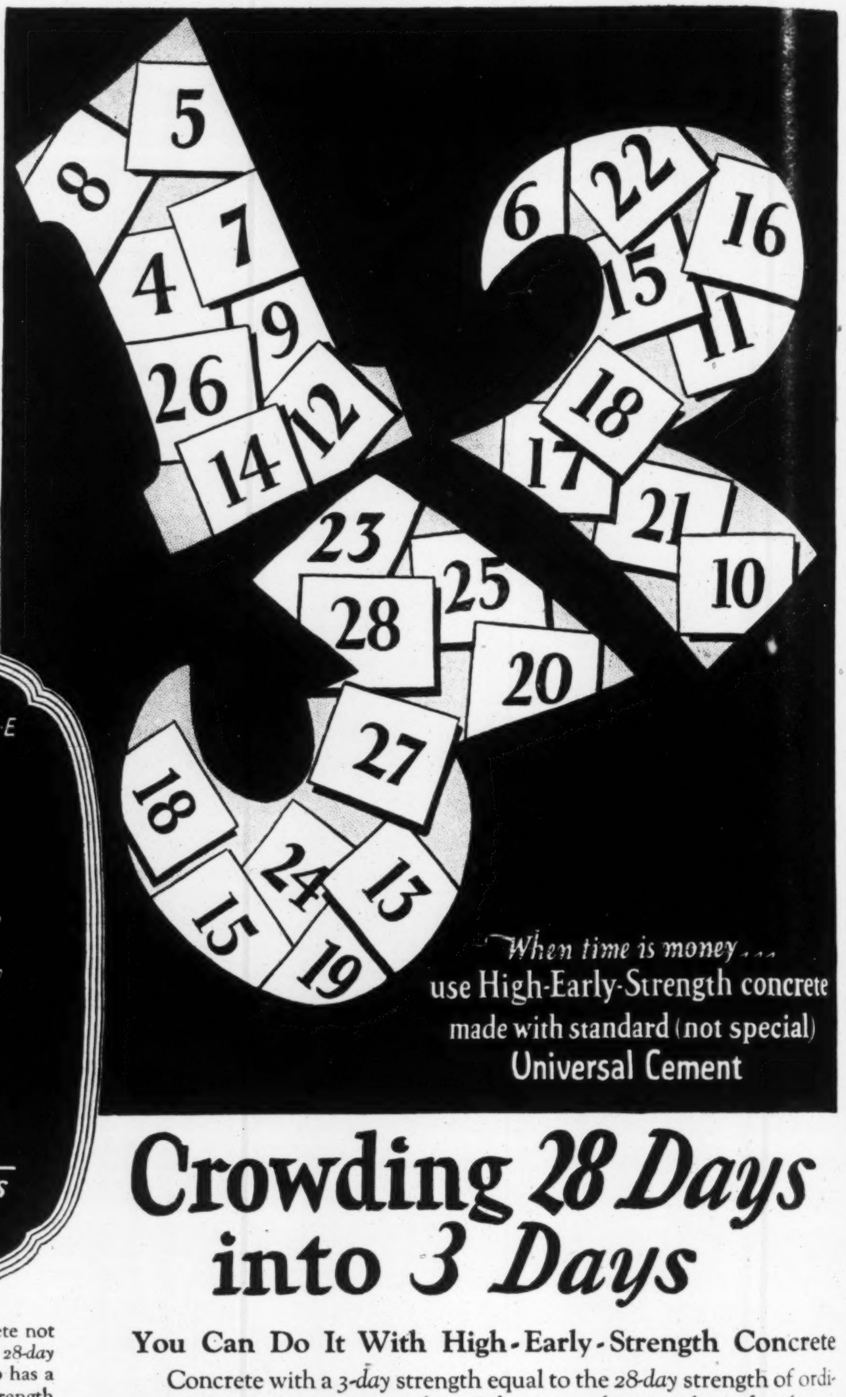
Tex., Dallas—See "Streets and Roads."

Ont., Sarnia — Sarnia, Ont., and Port Huron, Mich., making preliminary plans suspension span bridge over St. Clair River and Sarnia Bay connecting Sarnia, Ont., with Port Huron, Mich. $3,500,000. Harrington, Howard & Ash, Orear Leslie Bldg., Kansas City, Mo., engrs. Noted Nov. 24.

Bids Desired

Pa., Phila.—Dec. 14, by Dept. Pub. Wks., Bureau of Engineering, Bridge Div., replacing 2 timber bridges with 80 x 378 ft. and 60 x 380 ft. steel span bridges, each to

Constr. News' page 284



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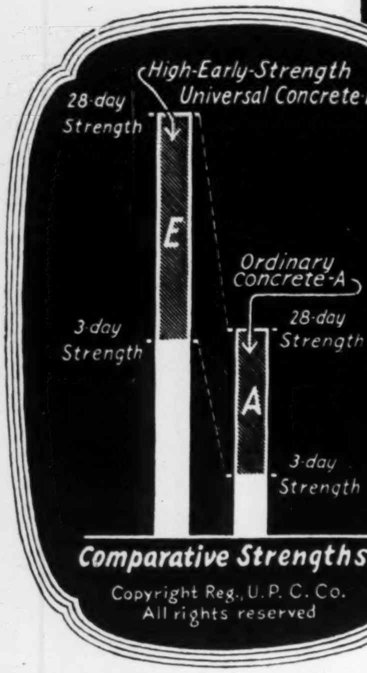

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By using it, you crowd 28 *days* into *3 days*. And as this concrete has a higher *ultimate* strength in addition to a higher *early* strength, you secure a *permanently* better and stronger job. (See diagram.)

High-Early-Strength Universal Concrete is used on all types of jobs. It is made by using fully tested methods with the usual equipment, usual labor, usual materials, and usual Universal Cement. For full details, send in the accompanying coupon.

Universal Portland Cement Co.
Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York
Concrete for Permanence

Bridges (Continued)

have 3 rein.-con. arches, etc. over Pennypack Creek, line of Rhawn St. $600,000.

Va., Danville—Jan. 3, by City Council, concrete arch bridge over Dan River, on Worsham St. C. L. Scott, Jr., city engr.; adv. E. N.-R. Dec. 8.

North Carolina—Dec. 13, by State Hy. Dept., Raleigh, rein.-con. bridges and culverts on Project 6910, Union Co. $75,000, on Project 645, Lincoln Co. $65,000, on Project 4090, Durham Co. $68,000, and on Project 224, Duplin Co. $33,500. L. R. Ames, Raleigh, engr.

Ala., Lovick—Dec. 13, by Bd. Revenue, Jefferson Co., Court House, Birmingham approximately 25,000 ft. creosoted timber viaduct over Southern Railway tracks, here. C. J. Rogers, co. highway engr.

Miss., Pascagoula — See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Miss., Vicksburg—Dec. 15, by Vicksburg Bridge & Terminal Co., c/o H. Bovay, pres., 1263 Agnes Pl., Memphis, Tenn., bridge to have 420 ft. east shore span, 80 ft. channel span, and four 400 ft. spans, steel on concrete piers, over Mississippi River. Harrington, Howard & Ash, Orear Leslie Bldg., Kansas City, Mo., engrs. Noted Dec. 1.

Indiana—Dec. 21, by J. D. Williams, dir. State Hy. Comn. Indianapolis, two 33 ft. and one 70 ft. span bridge on Rd. 37-G, Lawrence Co.; 30 ft. bridge, on Rd. 37-H, Monroe Co.; 150 ft. bridge on Rd. 65-A, Posey Co.; two 92 ft. span bridge, and 2 bridges, 36 ft. span each, on Rd. 28-P, also one 28 ft. span bridge on Rd. 28-Q, Randolph Co.

Michigan—Dec. 22, at office St. Clair Co. Road Comn., Port Huron, T. L. Bridge 1 of 77-7-20, Contrs. 1 and 2, two 75 ft. span steel deck girder, 30 ft. roadway, for State Hy. Dept., Lansing. E. R. Benkert, Port Huron, resident engr.

Iowa — Dec. 13, by State Hy. Comn., Ames, one 90 x 20 ft. pony truss bridge with two 40 ft. I-beam approaches, near Kimballton, on Bridge Project 503, Audubon Co., three 160 x 20 ft. high trusses with two 40 ft. I-beam approaches near Mt. Pleasant, on Bridge Project 313, Henry Co., three 130 x 20 ft. high trusses with two 40 ft. I-beam approaches at Curtis, Federal Aid Project 296, Johnson Co., one 90 x 20 ft. pony truss bridge with two 32 ft. I-beam approaches and 16 culverts on West Liberty Co. line Rd., Bridge Project 523, and one 150 x 20 ft. high truss bridge with one 24 x 24 ft. I-beam approach, also 12 culverts on West Liberty-Nicholas Rd., Bridge Project 513, all Muscatine Co., three 40 x 24 ft. I-beam span bridge across Summit Lake, near Creston, Bridge Project 493, Union Co. F. R. White, highway comr.

Minnesota—Dec. 20, by State Hy. Comn., St. Paul, constructing Bridge 2442, five 36 ft. steel spans, etc., near Shakopee, on State Project 5-36-C; Bridge 4764, two 26 ft. steel spans, etc., near Hawley, on State Project 2-37; and Bridge 4671, three 38 ft. steel spans, etc., near Sauk Center, on State Project 4-31.

Minnesota—See "Streets and Roads."

Kan., Kingman—Dec. 20, by Clerk Kingman Co., twelve 30 ft. concrete deck girder span bridge, 26 ft. roadway, on Federal Aid Project 341-B, C. C. Martin, Kingman, co. engr. Noted Dec. 1.

Missouri—Dec. 9, by State Hy. Comn., Jefferson City, four 20 ft. I-beam, 45 ft. and four 25 ft. rein.-con. span bridges in Andrews Co.; two 8 ft. rein.-con. slab spans, etc. Barry Co.; two each 5 and 6 ft. rein.-con. slab span bridges, Bollinger Co.; four 40 ft. rein.-con. deck girder and one 90 ft. steel truss spans, Clark Co.; one 84 ft. railroad truss, two 30 ft. and one 40 ft. rein.-con. deck girder span bridges, Clay Co.; one 25 ft., one 30 ft. and two 40 ft. I-beam spans, etc., Dunklin Co.; two 5, 8 and 12 ft. rein.-con. slab, three 30 ft. and four 50 ft. rein.-con. desk girder spans, Greene Co.; six 50 ft. and two 35 ft. rein.-con. deck girder and four 20 ft. rein.-con. slab spans, etc. St. Clair Co. T. H. Cutler, ch. engr. Noted Nov. 24.

Tex., Graham — Dec. 19, by Young Co., c/o W. F. Parsley, judge, one 140 ft. riveted steel span and 260 ft. creosoted timber approaches over Clear Fork Brazos River. $25,000. G. A. Johnson, Graham, engr. Noted Dec. 1.

Colorado—See "Streets and Roads."

California—Dec. 19, by State Hy. Comn., Sacramento, widening six 26- to 30 ft. concrete bridges, 24 ft. wide to 30 ft. roadway at points between Turlock and north boundary, also extending 6 corrugated metal siphons with concrete headwalls, and pipe culvert, all in Stanislaus Co. R. M Morton, Strub Bldg., Sacramento, engr.

Contracts Awarded

Rhode Island—Mt. Hope Bay Bridge Co., c/o W. R. Compton, 44 Wall St., New York City, substructure 1,200 ft. span suspension bridge, 5,000 ft. long, concrete, steel wire cables, over Mt. Hope Bay between Bristol and Portsmouth, here, to Foundation Co., 120 Liberty St., New York City; and super-structure, to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa. Noted Nov. 10.

N. Y., Long Island City—Park Bd., W. R. Herrick, pres. Park Dept., Arsenal Bldg., Central Park, New York City, bridge over roadways and paths at Kissena Park, Queens Boro, to Connor Bros., 629 Albany Ave., Brooklyn, $10,820. Noted Nov. 10.

La., Bastrop—See "Streets and Roads."

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, 30 ft. span concrete girder bridge over Salt Fork Sect. "B-2" Cambridge-Steubenville Rd., Guernsey Co., to G. R. Stinchcomb, 1191 Oak St., Columbus, $9,323; also 126 ft. steel span bridge over Richfork Creek on Sects. "K" and "L" Woodsfield-Marietta Rd., Monroe Co., to McDonald Constr. Co., Norwalk, $41,916.

O., Cleveland—Cleveland Union Terminal Co., Marshall Bldg., fabricating and erecting approximately 18,000 tons steel for super-structure bridge over Cuyahoga Valley steel to Amer. Bridge Co., Frick Bldg., Pittsburgh, Pa. Noted Nov. 24.

Kan., Ottawa — Franklin Co., one 80 ft. span steel bridge, 20 ft. on Sect. A. Project 143, to Pioneer Constr. Co., 270 Grover Bldg., Kansas City, Mo., $9,388. Noted Nov. 10 under "Streets and Roads."

Kan., Topeka—See "Streets and Roads."

Okla., Lovell—Logan Co. (Guthrie), 1 span 108 ft. steel truss bridge on piers, here, to Boardman & Co., Maple St., Oklahoma City, $23,461. Engrs. est. $25,000.

Oregon—State Hy. Comn., Salem, bridge on Project 132-A, Clackamas Co., to Rigdon Bros., Woodburn, $29,775.

Ont., Ottawa — Secretary Federal Dist. Comn., 53 Queen St., steel superstructure bridge over Ottawa River, to Dominion Bridge Co. Ltd., 51 Sparks St., $215,600. Noted Nov. 3.

Dams

Proposed Work

Mich., Allegan — Plans rein.-con. power dam across Kalamazoo River. $50,000. Ayers, Lewis, Norris & May, Cornwall Bldg., Ann Arbor, engrs.

Bids Received

N. Y., Hadley—Bd. Hudson River Regulating Dist., 44 Howard St., Albany, Dec. 5, Conklingville Dam, Contr. 4, here, from S. J. Groves & Sons, Inc., Drake Blk., Ticonderoga, $1,307,086. Noted Nov. 24.

Railways

Proposed Work

Michigan—Grand Trunk Ry., Detroit, J. A. Heaman, ch. engr., making plans classification yards, engine house and car repairing plant, also water and coaling stations, at Royal Oak.

Quebec—Provincial Govt., Quebec, appropriated $500,000 towards constructing Lake St. John Ry., 32 mi. St. Felicien to Mistassnie, and 75 mi. between Mistassnie and Herbertville. Noted Feb. 10.

Bids Desired

Missouri—See "Contracts Awarded."

Contracts Awarded

Alabama—St. Louis-San Francisco Ry. Co., F. G. Jonah, ch. engr., St. Louis, Mo., grading, laying crossties, tracks, etc., from Aliceville to Demopolis, here, to C. G. Kershaw & Co., Woodward Bldg., Birmingham, $200,000.

Missouri—Missouri Pacific R.R. Co., E. A. Hadley, ch. engr., Ry. Exch. Bldg., St. Louis, will improve terminal and yard, also install 100,000 gal. steel tank, etc., in Poplar Bluffs, by day labor. $200,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Mass., Lynn — City, Chamber of Commerce, voted $300,000 bonds, development Lynn Harbor, in conjunction deepening channel addition of 10 ft. Engineer not selected.

N. J., Perth Amboy—Chamber of Commerce, J. M. Klein, pres., 117 Smith St., plans dredging river, erecting warehouses and piers. $1,000,000. Engineer not selected.

Texas—Mestenas Water Co., c/o S. B. Smith, pres., Frost Bldg., San Antonio, making plans and takes bids in early spring, irrigating 10,000 acres land northeast section Hidalgo Co. $175,000. Private plans.

Texas—Red Bluff Irrigation Dist., c/o Chairman, Pecos, plans creating irrigation district, 80,000 acres land in Loving, Ward and Reeves Counties. $3,000,000 (tentative). Private plans.

Bids Desired

N. Y., Brooklyn — Dec. 16, by M. Cosgrove, comr. Docks, Pier "A," Battery Pk., New York City, bulkhead wall and concrete dump, at Hamilton Ave. and Gowanus Canal, Contr. 1887, here.

Miss., Pascagoula — Dec. 15, by Bd. Supervs. Jackson Co., 2 mi. beach driveways and road protection, 86,810 cu.yd. dredged earth fill, 3,307 cu.yd. excav., 8,674 cu.yd. concrete road protection, 1,338,008 lb. reinforcing, 45,713 sq.yd. 6 and 7 in. concrete paving, 302 cu.yd. concrete in bridges, 5,450 ft. concrete curbing, etc. F. H. McGowen, Ocean Springs, engr.

Ill., Bourbon—Dec. 17, by Comrs. D. D. 3, Douglas Co., 52,485 cu.yd. excav. in main ditch and branches. Craig & Craig, Mattoon, attys.

Minn., Hallock — Dec. 12, by W. F. Davnie, aud. Kittson Co., constructing County Ditch 28, approximately 84,500 cu.yd. excav., and 615 ft. 18- to 72-in. portable culverts, etc. $16,557.

Iowa — Dec. 22, by Joint Bd. Supervs. Hardin Co. (Eldora) and Hamilton Co. (Webster City), at office L. L. Doolittle, aud. Hamilton Co., Webster City, constructing Joint Drain 118 Hardin Co. and Drain 232 Hamilton Co., 23,426 ft. 6- to 28-in. vitr. clay tile, junctions, sewer pipe and c.i. grates delivered on line of drain. E. S. Boudinot, Webster City, constr. engr.

Colorado—See "Streets and Roads."

Ark., Osceola—Dec. 13, by Comrs. Sub. Dist. 1, D. D. 8, R. E. L. Wilson, Jr., chn., 16 x 20 ft., galvanized iron pumping plant, incl. electric driven pumping machinery, concrete sluiceway, etc. Morgan Eng. Co., Goodwyn Institute Bldg., Memphis, Tenn., engrs.

Tex., San Antonio — Dec. 20, by City, subterranean channel from River to Commerce St. and Market St. to the river cutting off the bend, incl. excavating, retaining wall, etc. $70,000. S. F. Crecelius, 201 Torcido Dr., engr. Noted Oct. 13.

Contracts Awarded

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., repairing and reconstructing sea wall on Willets Point Rd., to Erection Co. of New York, 500 5th Ave., New York City, $33,939. Noted Nov. 10.

N. J., Bradley Beach — Bradley Beach Comn., 1,600 ft. bulkhead between Sylvan Lake and Boulevard, to Wooley & Howland, Long Branch, $18,400.

Ill., Owaneco—Comrs. Union D. D. 1, Christian Co., 49,519 ft. ditch work, incl. 133,536 cu.yd. excav., etc., to W. S. Hardwick, Lawrenceville. Noted Oct. 27.

Ia., Council Bluffs—Pidgeon Creek D. D., 24,000 cu.yd. excav. and 12,000 cu.yd. earth fill, to Callahan-Walker Constr. Co., 1106 1st Natl. Bank Bldg., Omaha, Neb.; also Honey Creek D. D., 6,300 cu.yd. excav., to J. R. Babbitt, Council Bluffs.

Calif., Los Angeles — Harbor Comn., dredging Naval Anchorage at Los Angeles Outer Harbor under Spec. 768, to Merritt-Chapman Scott Corp., Harbor Blvd., San Pedro, $22,990. Noted Oct. 20.

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Streets and Roads

Proposed Work

Mass., Cambridge (Boston P. O.)—Dept. Pub. Wks., Boston, plans highway from Massachusetts Ave. running parallel Watertown branch Fitchburg Div. R.R. to Fresh Pond Parkway, here. $511,000. W. F. Williams, comr.

Mass., Quincy (Ind. br. Boston)—Plans paving various streets, $100,000 appropriated. P. J. O'Brien, city engr.

Conn., Hartford—Plans macadam paving Blue Hills, Capitol, Franklin, Maple and Retreat Aves., Elizabeth, Vine, Zion and Sigourney Sts. $630,000. R. M. Clarke, Municipal Bldg., engr.

Miss., Canton—Madison Co. making preliminary plans concrete paving, etc. portions Canton-Hinds Co. line and Flora-Hinds Co. line Rds.; graveling portions Canton-Flora Highway, Canton-Moore Ferry Rd., Canton-Camden Rd. via Sharon, Camden-Canton-Pickus Highway, and Vinson Rd. $2,000,000.

Miss., Fayette — Jefferson Co. voted $100,000 bonds, grading, etc. various roads.

Miss., Pontotoc — Pontotoc Co. making preliminary plans completing Bank Head Highway; graveling Pontotoc - Houston - Chickasaw Co. line Highway, and Cherry Creek Rd.; also surfacing Pontotoc-Okalona Highway.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 20 mi. Trenton-Alamo Rd., Gibson and Crockett Counties. C. N. Bass, highway comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, soon takes bids high type (probably asphalt on concrete) paving 5 mi. State Road 1, Knox Co.; and takes bids about Dec. 15, concrete paving 10 mi. Dyersburg-Heloise Rd., Dyer Co., and grading 3 mi. State Road 2, McMinn Co. C. N. Bass, highway comr.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids after Jan. 1, grading, curbing, walks and vitr. brick paving 8,215 sq.yd. Noble Ave. $52,600. E. A. Kemmler, Municipal Bldg., engr.

O., Canton—Stark Co. plans improving 1.8 mi. Brookside Rd. $35,000-$40,000. A. M. Wise, Court House, engr.

Ill., East St. Louis — Soon takes bids grading, 8 in. concrete paving, etc. 15,600 sq.yd. Central Ave. Paving Dist. $72,300. W. McK. Brown, City Hall, engr.

Ia., Marengo—Iowa Co. voted $900,000 bonds, 6 in. concrete paving Projects 32 and 149; also graveling 28 mi. primary road system. W. W. Thorn, Marengo, co. engr.

Kan., Lincoln—Auditor Lincoln Co. takes bids about Jan. 20, grading and bridging 6.846 mi. Rd. K-18, Federal Aid Project 362-E, $55,000. A. J. Francis, Jr., Lincoln, co. engr. Noted Nov. 24.

Kan., Ottawa—J. R. Finley, clk. Franklin Co., rejected bids Nov. 23, grading, etc. 3.976 mi. Sect. A., and 2.819 mi. Sect. B. Project 143, 28 ft. Noted Nov. 10.

Kan., Wichita — Sedgwick Co. making preliminary plans grading and concrete paving ½ mi., also 806 ft. rein.-con., and steel bridge, 30 ft., South Lawrence Ave. $150,000. G. H. Bradford, Court House, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City, Hall, plans widening and paving Theresa Ave. between Market St. and Lindell Blvd., and Theresa Ave. between Lindell Blvd. and Bell Ave.; also plans later opening Francis St. between Cass Ave. and Magazine St. to connect with Coleman St. $700,000. A. Brooks, City Hall, dir. Streets & Sewers.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, made revised plans alternate types paving, etc., Washington and Delmar Blvds., Berthold, Parker, Wren and Macklind Aves., McCausland and DeGeverville Sts. W. W. Horner, 300 City Hall, engr.

Arkansas—State Hy. Dept., Little Rock, takes bids about Dec. 15, grading, etc. 10.5 mi. Highway 45, Sect. 4, Washington Co., and 2.5 mi. Highway 116, Sect. 1, Logan Co.; also grading and graveling, etc. 12 mi. Highway 7, Sect. 5, Hot Springs Co. C. S. Christian, c/o owner, engr.

Tex., Dallas—Dallas Co. making plans grading, bridging and concrete paving 20.3 mi. Highway 114, 20 ft. $1,345,249. R. H. Clinger, Dallas, co. engr.

Tex., Galveston—See "Unclassified."

Arizona—State Hy. Comn., Phoenix, rejected bids Nov. 21, grading and 2 in. asphaltic concrete or bitulithic on 4 in. bituminous paving 51,061 sq.yd. Prescott-Jerome Highway, Federal Aid Project 36-A, reopened. W. C. Lefebvre, state highway engr. Noted Nov. 17.

California—Ventura Co. (Ventura) Kern Co. (Bakersfield) and Santa Barbara Co. (Santa Barbara) soon take bids grading and bridging, etc., 74 mi. Tri-County Highway from west side Kern Co., connecting Maricopa, Kern Co. and Carpinteria, Santa Barbara Co., 20 ft. $1,195,800. Superior Court approved intention above counties to issue bonds in excess $500,000 to finance their portion of cost.

Calif., San Diego—Common Council plans grading, curbing, 6 in. asphaltic concrete paving, etc. 156,908 sq.ft. and 6 in. concrete paving, etc. 272,423 sq.ft. Boundary and 33rd Sts., etc. H. W. Jorgensen, city engr.

Calif., San Francisco—Made plans grading, bridging, sewers, etc., in Bernal Cut. $600,000. M. M. O'Shaughnessy, city engr.

Bids Desired

N. Y., Long Island City—Dec. 15, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, repairing bulkhead and paving intersection Beach Channel Dr. and Beach 95th St.; grading and sheet asphalt on concrete paving Queens Blvd., Abingdon Rd., Graham, 69th (Fisk), and Aves., Bleecker, 124th, 96th, 104th (47th), 69th, and 107th Sts., etc.

N. Y., New York—Dec. 9, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading and sheet asphalt on concrete repaving 96th and West 204th Sts.

N. Y., New York—Dec. 14, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing, sidewalks and sheet asphalt on concrete paving West 135th and Ellwood Sts.

N. Y., New York—Dec. 16, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading, curbing, sidewalks, etc. on East 229th and West 238th Sts., Arnow, Fenton, Jarvis, Wellman, Dudley, Morgan and Furman Aves.

Pa., Phila.—Dec. 13, by Dept. Pub. Wks., Bureau of Highways, Schedule A, grading 610,000 cu.yd. various streets; Schedule B, asphalt repaving (assessment work), Erdrick, Pickwick, Unity, 18th and 58th Sts.; Schedule C, vitr. block paving Springer St.; Schedule D, asphalt repaving Corlies St.; Schedule E, improving 66th Ave. (country road); and Schedule F, paving and repaving certain alleys, etc. G. H. Biles, dir.

Pa., Swissvale — Dec. 13, by Boro, at office H. D. Caldwell, boro secy., grading and 7 and 8 in. rein.-con. paving, etc., 3,191 sq.yd. Coulter Way, Hays and Monroe Sts. A. Hutchinson, boro engr.

Md., Baltimore—Dec. 14, by Bd. Awards, sheet asphalt paving 13,430 sq.yd. streets listed in Contr. 444. N. L. Smith, City Hall, highway engr.

North Carolina—Dec. 13, by State Hy. Comn., Raleigh, clearing, grading, etc 14.58 mi. Project 6910, Union Co. $90,653, 4.19 mi. Project 917, Cherokee Co. $28,600, 4.15 mi. Project 948, Haywood Co. $38,493, 18.26 mi. Project 224, Duplin Co. $102,229, 10.06 mi. Project 4090, Durham Co. $84,285, 2.61 mi. Project 4440, Orange Co. $25,108, and 5.26 mi. Project 645, Lincoln Co. $43,200; grading and concrete or asphalt paving 9.66 mi. Project 8260, Cleveland Co. $209,186, 7.91 mi. Project 3930, Robeson Co. $131,500, 6.43 mi. Project 4441, Lee Co. $151,250, 10.38 mi. Project 6371, Iredell Co. $237,855, 9.27 mi. Project 551, Hoke Co. $151,475, and 4.66 mi. Project 4720, Vance Co. $109,500. L. R. Ames, Raleigh, engr. Noted Nov. 24.

Ga., Baxley—Dec. 20, by O. H. Lang, engr., Moultrie, curbing, guttering, walks and concrete or asphalt paving, etc. 27,134 sq.yd. various streets, here, for City.

Ala., Birmingham—Jan. 3, (extended date), by Jefferson Co. Bd. Revenue, **(P. means Project)**, 5 in. concrete paving, etc. 23,000 sq.yd. 35th Ave. N., P. 99; 5,500 sq.yd. Ketona-Huffman Rd., P. 105; 6,000 sq.yd. Huffman-Sadler Gap Rd., P. 104; 7,500 sq.yd. P. 103; 95 sq.yd. Green Springs Rd., P. 102; 63,000 sq.yd. Mt. Pinson Rd. P. 101, 54,000 sq.yd. Hueytown Loop, P. 100; 15 mi. Bankhead Highway, P. 107; and ¾ mi. Wenona Rd., P. 106, all 18 ft. wide. C. J. Rogers, Birmingham, co. engr.

Ala., Birmingham — Jan. 5, by City Comn., 2½ in. asphalt on 6 in. concrete paving 7 blocks 25th St. N., 40 ft., $46,400; sheet asphalt, 1 in. binder course and 1½ in. wearing surface on 6 in. concrete paving 5 blocks 1st Ave. N., 40 ft., $31,600; 2 in. asphalt on 6 in. concrete paving, etc., 6 blocks 21st Ave. N., 40 ft., $32,520; curbing, guttering, and 2 in. asphalt on 6 in. concrete paving, etc., 2 blocks Ave. Z, Ensley, 30 ft., $12,560; 6 in. concrete paving 2 blocks 9th Court, Alley S., 12 ft., $1,570, 2 blocks Aberdeen Rd. Alley, 15 ft., $1,980, and 3 blocks 46th Alley S., 14 ft., $2,150; curbing, guttering, walks and 6 in. concrete paving 3 blocks 36th Ave. N., 30 ft., $15,900, and 1 block 48th St. N., 40 ft., $6,850; 2 in. asphalt on 5 in. concrete paving 1 block Division Ave., $5,125, and 3 blocks 24th St. N., $18,000, both 30 ft. A. J. Hawkins, city engr.

Miss., Greenwood—Dec. 29, by Supervs. Leflore Co., graveling 4 mi. Federal Aid Project 195-B between Ittabena and Greenwood. H. C. Dietzer, Jackson, state highway engr.

Miss., Meridian — Dec. 21, by Supervs. Lauderdale Co., improving Meridian-Louisville Rd., in Beat Three 9,200 cu.yd. gravel, 50,000 cu.yd. excav., 239,000 units overhaul, etc., also furnishing 10,000 cu.yd. washed gravel, f.o.b. Meridian. J. T. Pinkston, Meridian, engr.

Miss., Pascagoula — See "Excavation, Drainage, Irrigation Levees. River and Harbor."

Louisiana—Dec. 20, by State Hy. Comn., Baton Rouge, graveling 7.023 mi. Winnfield-Colfax Rd., Project 139B, Winn Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, state engr.

Louisiana—Jan. 3, by State Hy. Comn., Baton Rouge, grading and concrete or warrenite bitulithic paving 1.575 mi. State Project 612A, Jefferson Co. N. W. Bowden, Reymond Bldg., Baton Rouge, state engr.

Louisiana—Jan. 12, by State Hy. Comn., Baton Rouge, graveling 7.086 mi. Jena-Nebo-Rogers Highway, State Project 556-B, LaSalle Co. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Tennessee—Dec. 16, by State Dept. Highways & Pub. Wks., Nashville, grading, etc. 0.189 mi. State Rd. 34, State Aid Project 324-C, Hawkins Co. C. N. Bass, highway comr.

Kentucky—Dec. 22, by State Hy. Dept., Frankfort, grading, etc. 10.5 mi. Hoods Creek Rd., State Aid Project 176-A, Boyd Co. E. N. Todd, highway engr.

Indiana—Dec. 20, by J. D. Williams, dir. State Hy. Dept., Indianapolis, concrete paving 88,326 sq.yd. F. A. 120, Sect. A. State Road 52, Rush and Franklin Counties; 80,936 sq.yd. F. A. 124, Sect. A. and 75,610 sq.yd. Sect. B. State Rd. 28, Randolph Co.; 53,116 sq.yd. F. A. 16, Sect. D. P., Warwick and Spencer Counties; 59,875 sq.yd. F. A. 111, Sect. A. and 54,278 sq.yd. Sect. B., State Rd. 52, Franklin Co.; and 59,136 sq.yd. Sect. C., Franklin and Dearborn Counties. W. J. Titus State House, Indianapolis, engr.

Ind., Crown Point—Dec. 19, by Comrs. Lake Co., grading and graveling R. H. Harrington et al. Rd. $40,000. W. E. Whitaker, Crown Point, aud.

Ind., Fort Wayne—Dec. 22, by Comrs. Allen Co., at office J. H. Johnson, aud., grading and graveling 1.019 mi. Van Houten Rd., Lake Twp., $16,000; also 1.18 mi. Elmhurst Rd., Wayne Twp., $13,000.

Ind., Terre Haute—Dec. 16, by Comrs. Vigo Co., grading, etc., 2 mi. Sect. 2, Burton Cassaday County Unit Rd. $107,059. J. Dreher, aud.

Iowa — Dec. 13, by State Hy. Comn., Ames., grading, paving, etc., 195,500 sq.yd. Road 141, Project 515, Monona Co., incl. 87 intakes, 26 flumes, etc.; 60,327 sq.yd. Road 32, Project 523, Muscatine Co.; 14 flumes, 14 intakes, etc.; 130,220 sq.yd. Road 141, Project F-2, Woodbury Co., 30 intakes, 33 flumes, etc.; 115,968 sq.yd. Road 30, Project 563, Harrison Co., 18 intakes, 9 flumes, etc.; 15,371 sq.yd. Road 6, Project 535-B, Appanoose Co., 5 intakes, 1 flume, etc.; 229,109 sq.yd. Road 16, Project 111, Kossuth Co., 4 intakes, 17 flumes, etc., also river bank protection involving 22 Woods Bros. steel current retards in place. R. F. White, highway comr.

Minnesota—Dec. 20, by State Hy. Comn., St. Paul, **(S.P. means State Project and F.A.P., Federal Aid Project)**, grading 340,000 cu.yd. S.P. 2-37, and 600,000 cu.yd. S.P. 2-38, F.A.P. 389, 340,000 cu.yd. S.P. 10-54, Sect. 3, F.A.P. 411, and 170,600 cu.yd. S.P. 11-32, F.A.P. 400; also grading and constructing Bridge 4771, 50 ft. long, on 390,000 cu.yd. S.P. 5-32 Sect. 1, F.A.P. 340. Eng. Dept. State Hy. Dept., 1246 University Ave., St. Paul, engrs.

Minn., St. Paul—Dec. 27, by G. J. Ries, aud. Ramsey Co., grading and rein.-con. paving, etc., 100,000 sq.yd. Projects 28-88, A, B and C, South Robert St. between Minnesota Trunk Highway 1 and Arion St. $300,000. P. N. Coates, Guardian Life Bldg., engrs.

Kan., Hiawatha — Dec. 22, by Clerk Brown Co., sand gravel surfacing 12.8 mi. Project 180, 26 ft. S. K. McCrary, Hiawatha, co. engr.

Kan., La Crosse — See "Contracts Awarded."

Kan., Seneca—Dec. 23, by Clerk Nemaha Co., sand gravel surfacing 15.568 mi. Project 181, 26 ft. L. P. Price, Seneca, co. engr.

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Streets and Roads (Continued)

Missouri—Dec. 9, by State Hy. Comn., Jefferson City, grading approximately 40 mi. roads in Barry, Bollinger, Clay, Andrews, Nodaway, Clark and Greene Counties; also concrete paving approximately 36 mi. roads in Dunklin, Livingston, Monroe, St. Clair, Clark, Linn and Worth Counties; and 22,419 ft. guard rail in Boone and Franklin Counties. T. H. Cutler, ch. engr. Noted Nov. 24.

Tex., Amarillo—Taking bids two course penetration on gravel paving 12 blocks various residential streets. $45,000. H. B. Jones, Amarillo, engr.

Tex., Haskell—Dec. 15, by M. H. Post, city clerk, paving 30,000 sq.yd. various streets. J. Rady, city engr.

Tex., Houston—Dec. 19, by H. L. Washburn, aud. Harris Co., asphalt surfacing 19.75 mi. West Montgomery Rd., Precinct 4, and grading, etc., Lawndale Ave. from Brady Bayou to Harrisburg. Howe & Wise, Court House, engrs. Noted Nov. 17.

Okla., Norman—Dec. 13, by O. Ogborn, city clk., grading and 6 in. concrete paving 8,420 sq.yd. Dakota St. $28,270. F. Cobb, Norman, engr.

Colorado—Dec. 14, by State Hy. Dept., Denver, **(F.A.P. means Federal Aid Project)** gravel surfacing 3.201 mi. Highway 123, F.A.P. 144-B, Constr. Div. 1, Larimer Co.; grading 3.444 mi. Highway 8, F.A.P. 279-F, Park Co. and 0.921 mi. F.A.P. 287-D, Constr. Div. 1, Weld Co., bituminous on concrete or plain concrete paving 2.765 mi. Highway 1, F.A.P. 2-R, Paving Div. 6, Las Animas Co.; also concrete retaining wall at Pine Creek Bridge, approximately 5 mi. north of Colorado Springs on Highway 1, F.A.P. 116-B, Constr. Div. 2, and 100 ft. span steel bridge over Conejos River, east of Romeo, on Project 664. L. D. Blauvelt, State Office Bldg., Denver, engr.

Washington — Jan. 10, by State Hy. Comn., Olympia, grading, etc., 283,000 cu. yd. State Rd. 2, King Co. S. J. Humes, state highway engr.

Calif., El Centro—J. C. Neale, city clk., taking bids grading, curbing, guttering, walks and 5 in. asphaltic concrete paving, etc., 93,327 sq.ft. portion Olive Ave.; also grading, curbing, walks, 6 in. asphaltic concrete paving 63,037 sq.ft. and 5 in. asphaltic concrete paving, etc., 124,076 sq.ft. Adams and El Centro Aves., etc.

Contracts Awarded

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 11,050 ft. highway in Dover, to Greenough Constr. Co., South Acton, $73,576; and 17,000 ft. highway in Deerfield, to C. E. Horne, Millbury, $145,162, both 18 ft. wide. Noted Nov. 10.

Rhode Island — State Bd. Pub. Wks., State House, Providence, 8 in. bituminous macadam paving 2.2 mi. highway in Johnston, Contr. 2716, to Hagan & Thibodeau, Providence, $52,828, 2.2 mi. highway in Middletown, Contr. 2714, to Iaffola & Shields, Noyes Pl., Boston, Mass., $98,402, 3 mi. highway in Hopkinton, Contr. 2713, to Perini & Ampollini, Plainville, Mass., 3.4 mi. highway in Bristol and Warren, Contr. 2717, to Lawton Constr. Co., Providence, $99,744, all foregoing 20 ft. wide; 4.7 mi. highway in Greenwich, Warwick and West Warwick, Contr. 2715, Federal Aid 42, 20 ft., and 8 in. rein.-con. paving 1.6 mi. highway in Cranston, Contr. 2712, Federal Aid 50, 40 ft., to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $103,233 for latter project. Noted Nov. 17.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to T. DiRoma, 33 Evelyn Pl., grading Pugsley Ave. $3,031, to I. F. Calvaluzzo, 1300 Cromwell Ave., Hobart Ave. $5,073, Barnes Ave. $6,775, and Bronxwood Ave., $7,475; to Gramaglia Bros., 48 East Kingsbridge Rd., Waring Ave. $11,939, and to M. Del Balso, 660 East 221st St., Pelham Parkway $9,431. Grand total $43,724.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, grading Eltingville Blvd., to J. J. O'Rourke, 239 Gordon St., $9,012. Noted Nov. 17.

Pennsylvania—State Hy. Comn., Harrisburg, rein.-con. paving, etc., 3,554 ft. Route 362, Somerset Co., to Windber Constr. Co., Windber, $26,937; and bituminous surfacing 5,829 ft. Routes 85 and 295, Erie Co., to M. A. McCormick, Erie, $32,206, both 18 ft. wide. Noted Sept. 8.

Pa., Swissvale—(Ind. br. Pittsburgh)—Grading, repaving, etc. Woodstock, Roslyn, Noble and Braddock Aves., to McCrady Bros. Co., Braddock. Engrs. est. $100,000.

Maryland — State Roads Comn., Baltimore, concrete shoulders on 1.5 mi. Contr. W-26, Washington Co., to Bester, Long Co., Hagerstown, $13,201; graveling 0.76 mi. Contr. AA-52, and 1.5 mi. Contr. AA-54, Anne Arundel Co., to G. B. Mullin Co., 1296 Upshur St. N. W., Wash., D. C., $11,832 and $12,592 respectively. Grand total $37,625. Noted Nov. 17.

Md., Baltimore—Bd. Awards, sheet asphalt paving 11,000 sq.yd. streets listed Contr. 441, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $47,000. Noted Nov. 17.

Ga., Millen—Concrete paving, etc. Cotton and Winthrop Aves., Hendricks, Grey, Daniel and Masonic Sts., to Murray Constr. Co., Holston Natl. Bank Bldg., Knoxville, Tenn., $113,000. Engrs. est. $175,000.

Alabama—State Hy. Dept., Montgomery **(e.e. means engrs. est.)**, to Nixon & Phillips, Lincoln Life Bldg., Birmingham, 5 in. concrete paving, etc. 0.9 mi. roadway from Tuskegee towards Union Springs, Macon Co. $18,210 e.e. $20,000, to Atmore Twp., Atmore, 1.52 mi. road through Atmore Twp., Escambia Co. $23,180 e.e. $24,000, both 20 ft. wide, to J. F. Pryor, Sharon, Tenn., 12.25 mi. road between Perdido Station and Bay Minette, Baldwin Co., $172,850 e.e. $174,500, to Mobile Constr. Co., Mobile, 9 mi. road between Troy and Orion, Pike Co. $143,484 e.e. $147,000, to J. B. McCrary, Citizens & Savings Bank Bldg., Atlanta, Ga., 1 mi. road through Cullman Twp. on State Highway 7, Cullman Co. $13,462 e.e. $14,200, to Couch Constr. Co., Dothan, 5.5 mi. road from Dothan towards Ozark, Houston Co. $82,684 e.e. $85,000, to Noonan Lawrence, Pensacola, Fla., 2.001 mi. road through Brewton Twp., on Brewton-Evergreen Rd., Escambia Co. $31,867 e.e. $32,500, to R. S. Taylor, Tuscaloosa, 3.3 mi. road between Andalusia and Brewton, Covington Co. $46,445 e.e. $47,200, to Davis Constr. Co., Walton Bldg., Atlanta, Ga., 5.6 mi. road between Lanett and Fairfax, Chambers Co. $90,146 e.e. $92,500, 8.47 mi. road between Ozark and Choctawhatchee River, Dale Co. $112,931 e.e. $114,500, and 17.86 mi. road from near Prattville to Chilton Co. line, Autauga Co. $236,162 e.e. $250,000, all foregoing 18 ft. Grand total $971,421. Noted Oct. 27.

Louisiana — State Hy. Comn., Baton Rouge, grading and graveling 9.498 mi. Natchitoches-Boyce Highway, State Project 429-F and G, Natchitoches Parish, to Alexandria Constr. Co., Alexandria, $50,682. Noted Nov. 10.

La., Bastrop—J. L. White, engr. Morehouse Parish, grading, bridging and graveling 6 mi. Spyker Perry and Bonners Ferry Rd., to Grubbs Co., Bastrop; pipe culverts, to Sherman Concrete Pipe Co., Shreveport; washed gravel, to Gifford-Hill Gravel Co., Forest Hill; and lumber for bridges, to Amer. Creosote Wks., 1305 Dublin St., New Orleans. Total $40,200. Noted Oct. 27.

La., Bastrop — Grading and concrete paving 4,370 ft. Odom, Jefferson and Pine Sts., to Thibodeaux & Harrison, and R. L. Young, Bastrop, $55,000.

Tenn., Dyersburg—Dyer Co. concrete paving portions Chic-Midway Rd. and Bogota-Miston Rd., to Forcum-James Constr. Co., Dyersburg; and portions Miston-Tennemo Rd. and Booths Point-Mississippi River Rd., to W. R. Aldrich Constr. Co., Dyersburg. Engrs. est. to exceed $200,000.

Ohio—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, grading and concrete paving, etc. 5.321 mi. Sect. "S" Delphos-Upper Sandusky Rd., Allen Co., to L. L. Clymer, Bluffton $126,144, and 6.748 mi. Sects. "A" and "B" Troy-Lodlow Falls Rd., Miami Co., to Davis & Davenport, Spencerville $191,829; grading and bituminous macadam paving, etc. 2.114 mi. Sect. "T-1" Cincinnati-Zanesville Rd., Fayette Co., to Hyer Constr. Co., Washington C. H., $37,996; grading and waterbound macadam paving, etc 2.993 mi. Sect. "K" Chagrin Falls-Greenville Rd., Geauga Co., to H. L. Sharp & Co., Parkman, $64,906; grading and 3 in. brick paving, etc 2 mi. Sects. "C-2" and "A" Portsmouth-Oak Hill Rd., Scioto Co., to S Monroe Sons Co., Portsmouth, $87,988; also grading, etc. 2.872 mi. Sect. "B-2" Cambridge-Steubenville Rd., Guernsey Co., to G. R. Stinchcorb, 1191 Oak St., Columbus $24,994, 1.08 mi. Sect. "E" McConnelsville Cambridge Rd., Morgan Co., to D. I. Angelo, Caldwell $27,005, and 1.089 mi. Sects. "A," "B" and "C" Ohio River Rd., Washington Co., to B. Francis, East Palestine $22,765. Grand total $583,627. Noted Nov. 10.

O., Cincinnati—Hamilton Co., resurfacing Martin Rd. from city corporation line to Cincinnati-Zanesville Rd., to J. S. Sloane, 2312 Mound Ae., Norwood, $43,454. Engrs. est. $55,968.

O., Cleveland—Cuyahoga Co., grading, etc. 60,000 cu.yd. Harms-Harris Rd., to F. G. Smith, Mayfield Rd., South Euclid, $24,397.

O., Cleveland — Cuyahoga Co., paving South Woodland Rd., to Cleveland Trinidad Paving Co., Western Reserve Bldg. $114,000.

Michigan—At office Division Engineer, Escanaba, grading, etc. 3.292 mi. F[illegible], Contr. 1, Menominee Co., to Benzie & Son, Norway, for State Hy. Dept., Lansing $44,498. Noted Oct. 13.

Michigan—A. R. Schaefer, resident engr., Newberry, Oct. 20, concrete paving 2.982 mi. MO32-27, Contr. 1, 20 ft., Huron Co., to R. R. Scott Co., Saginaw, for State Hy. Dept., Lansing, $86,382. Noted Oct. 13.

Ia., Ottumwa — Auditor Wapello Co., grading and paving 11.6 mi. U. S. Road 34, Project P-559, to C. H. Atkinson Paving Co., Watertown, S. D., $317,600.

Kan., Coldwater—Comanche Co., 2.6[illegible] mi., grading 1.348 mi. culverts also four [illegible] ft. deck girder span bridge, 20 ft. over [illegible] Creek near Wilmore, on Rd. K 12, Project 118-A, to Campbell Bros., 608 Manufacturers Exch., Kansas City, Mo., $29,3[illegible].

Kan., Fredonia—Wilson Co., will grade and chats surface 7.934 mi. various roads, 18 ft., by own forces. E. C. Baity, Court House, engr. Noted Nov. 17.

Kan., La Crosse — Rush Co. will grade, etc. 10 mi. Rd. K-4, 28 ft., by force account. H. R. Miller, Court House, engr. Noted Nov. 17.

Kan., Topeka—Shawnee Co., grading and concrete paving 0.97 mi. Wakarusa Spur Rd., also one 30 ft. and two 25 ft. deck girder span bridge, 20 ft., to M. W. Watson, 501 Mulvane Bldg., $39,655 and $5,025 respectively.

Arkansas—State Hy. Dept., Little Rock, to W. L. Davis & Co., Kansas City, Mo., graveling 5 mi. Highway 64, Sect. 7 Conway Co. $17,245, and to Forcum-James Constr. Co., Dyersburg, Tenn., 6 mi. Federal Aid Project 192-C, Phillips Co. $14,475, grading, etc. 12.4 mi. Highway 13, Sect. 6, Lincoln Co. $65,034, 8 mi. Job 1036, Highway 14, Sect. 13 $115,081, and 8 mi. Job 1043, Highway 14, Sect. 13 $74,743, both Poinsett Counties., to Kochtitzky Bros., England, 8.7 mi. Highway 114, Sect. 1, Lincoln Co. $75,447, and 6 mi. Highway 15, Sects. 8 and 9, Lonoke and Jefferson Counties $67,007, to F. E. Wright, Gurdon, 10 mi. Highway 5, Sects. 4 and 5, Howard and Hempstead Counties $20,562, to Interstate Constr. Co., Paris, Tex., 13 mi. Highway 10, Sect. 1, Sebastian Co. $75,980, and 12.7 mi. Highway 8, Sect. 1, Polk Co. $120,065, to C. N. Green & Son, Fort Smith, 9 mi. Highway 22, Sect. 2, Franklin Co. $44,245, to Ware Constr. Co., Little Rock, 7 mi. Highway 11, Sect. 14, Independence Co. $69,662, to J. C. Elliott Co., Leola, 7 mi. Highway 6, Sect. 2, Grant Co. $44,581, to Atkinson Bros., Pine Bluff, 9.5 mi. Highway 167, Sects. 2 and 3, Union and Ouachita Counties $69,416, and 5 mi. Highway 115, Sect. 1, Union Co. $33,233, to Cook & Ransom, Ottawa, Kan., 14 mi. Highway 22, Sect. 4, Logan Co. $108,763, to B. F. Brooks Constr. Co., Slaughter Bldg., Dallas, Tex., 6 mi. Highway 105, Sect. 1 $46,888, to E. Euler, Mansfield, Mo., 15.5 mi. Highway 5, Sect. 9, Baxter Co. $84,902, to C. M. Greene, Lowell, 8.4 mi. Highway 16, Sect. 4, Madison Co. $72,076, and to F. D. Harvey & Co., Jonesboro, La., 2.6 mi. Highway 1, Sect. 21, Clay Co. $35,881; also to Rowland & Rickard, Pine Bluff, grading and concrete paving ½ mi. Highway 3, Sect. 2, Columbia Co. $14,835. Grand total $1,270,121.

Tex., Bay City—Comrs. Court Matagorda Co., concrete paving 4.621 mi. highway from point near Rugeley to point near Cedar Lane, Caney Section 18 ft., to R. W. Briggs & Co., Pharr, $57,840. Engrs. est. $65,000. Noted Nov. 3.

Tex., Corpus Christi—Asphalt on concrete paving and sewers in 6 blocks Water St. from Starr to Power Sts., to Smith Bros. Inc., Corpus Christi, approximately $40,000.

Tex., Crockett — Houston Co., grading, etc., 6.613 mi. Highway 19, Federal Aid Project 485-B from here north to Road Dist. line 3 and 9, also 9.122 mi. same highway south of here through Lovelady, Federal Aid Project 485-D, both 26 ft., to J. S. Moore & Sons, Lufkin, $39,250 and $28,582 respectively. Engrs. est. $55,000 and $42,000 respectively.

Tex., Leakey—Real Co., grading caliche surfacing, etc. 18.195 mi. Highway 41 from Edwards Co. to Kerr Co. lines, 26 ft., to Thomas & Ratliff, Rogers, $48,983. Engrs. est. $55,000. Noted Aug. 25.

Washington—State Hy. Comn., Olympia, grading, etc., approximately 497,000 cu.yd. State Rd. 13, Grays Harbor Co., to Goetz & Brennan, 914 Seaboard Bldg., Seattle, $343,523; crushed rock surfacing 12,000 cu. yd. State Rd. 10, Okanogan Co., to Triangle Constr. Co., 1220 Ide Ave., Spokane, $15,353; and crushed graveling 6,300 cu.yd. State Roads 7 and 10, Grant Co., to F. G. Redmon, 206 South 4th Ave., Yakima, $9,324. Grand total $368,200. Noted Nov. 3.

California — State Hy. Comn., Sacramento, grading and crushed rock or gravel

Streets and Roads (Continued)

surfacing, etc., 3.5 mi. roadway between south boundary and Richardson Creek, Federal Aid Project 116-B, Del Norte Co., to J. E. Johnstone, E and Weber Sts., Stockton, $168,322. Engrs. est. $195,938. Noted Nov. 10.

Calif., Glendale—Glen Oaks, Inc., G. A. Orloff, secy., curbing, guttering and paving, etc., Glen Oaks Tract, to J. E. Haddock, 357 North Chester St., Pasadena, approximately $50,000.

Calif., Los Angeles—Grading and 6 in. concrete paving, etc. 131,154 sq.ft. Plummer St. between Payton Ave. and Sepulveda St., to Fleming Constr. Co., 105 North Park Ave., Pomona, $39,045; grading, asphaltic concrete and concrete paving, etc. San Fernando Rd. between San Fernando and Burbank city limits, to Curtis Paving Co., 2440 East 26th St., Los Angeles, $432,475; also grading and 6 in. concrete paving, etc. 112,154 sq.ft. 87th and Wall St. Impvt. Dist., to G. H. Oswald, 366 East 58th St., $42,455. Grand total $513,975.

Calif., Merced — P. J. Thornton, clk. Merced Co., curbing and 4 in. Willite paving, etc., Ragsdale sub-division, to Valley Paving and Constr. Co., Visalia, $101,602. Noted Nov. 3.

Calif., Ventura—Ventura Co. will surface, etc. 190,000 sq.ft., Santa Ana Rd., etc. under supervision C. W. Petit, co. surv., Ventura. Former bids rejected. Noted Nov. 24.

Ont., Toronto—Asphalt on concrete paving Haddon St., to Constructing & Paving Co., Confederation Life Bldg., $2,234; bitulithic on concrete paving Weston Rd. and St. Clair Ave., to Warren Bituminous Paving Co., 54 University Ave., $58,377; and concrete paving Tranmer Ave. and lane, to L. P. Acri, 102 Markham St., $3,229. Grand total $63,840

Buildings—Commercial

Proposed Work

Vt., Bennington — THEATRE, STORE and OFFICE — Bennington Amusement Corp., c/o N. R. Hogan, having preliminary sketches made by E. De Rosa, 15 West 44th St., New York City, theatre, store and office building, Main and Washington Sts. $150,000.

Mass., Boston — APARTMENT — F. J. Van Etten Co., 250 Stuart St., having plans prepared by Bigelow & Wadsworth, 3 Hamilton Pl., 11 story and basement, 50 x 100 ft., rein.-con., brick, stone and steel, plain foundation, Beacon St. $280,000.

Mass., Boston — APARTMENT — Seminary Trust, 11 Gerald Rd., Brighton, having plans prepared 3 story and basement, 80 x 135 ft., brick and stone, plain foundation, 2045 Commonwealth Ave. $150,000. Private plans.

Mass., Boston — HEALTH UNIT — City, G. E. White Fund, G. E. Phela, mgr., plans 3 story and basement, brick, granite and limestone, in Charlestown Dist. $250,000. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.)—HOSPITAL — Cambridge Hospital, W. F. Earle, chn. executive com., having plans prepared by Kendall, Taylor & Co., 142 Berkley St., Boston, group 3 and 4 story and basement, brick, buildings, incl. nurses' home, children's hospital and private ward, plain foundations, Mt. Auburn St. $650,000. Noted May 19.

Mass., Dorchester (sta. Boston) — DEPARTMENT STORE—A. Pickney, 1 Court St., Boston, having sketches made by Silverman, Brown & Heenan, 51 Cornhill, Boston, 2 story and basement, rein.-con., brick and steel, plain foundation, Ramsey St., incl. bridge connecting store with Upham's Corner, here. $150,000 or more.

Mass., Falmouth — SHOP and APARTMENT — A. A. Williams, c/o Goodwell Shoe Co., Water St., Holliston, having preliminary sketches made by J. W. Beal Sons Co., 185 Devonshire St., Boston, brick, Main St., here. $150,000 or more.

Mass., Framingham—MEMORIAL CIVIC—Framingham Civic League, E. D. Smith, pres., with Dennison Mfg. Co., having sketches made by C. M. Baker, 25 Arch St., Boston, brick, Concord St. $150,000.

Mass., Franklin—THEATRE and STORE—R. Vozella, City Mills, had plans prepared by F. A. Romano, 220 Hanover St., Boston, soon takes bids 2 story and basement, 90 x 160 ft., brick and steel, plain foundation, 47 East Central St. $150,000-$160,000. Noted Nov. 3.

Mass., Mansfield — THEATRE and STORE—E. L. and H. L. White, c/o J. E. Kelly, archt., 38 Chauncy St., Boston, having revised plans prepared 2 story and basement, 80 x 150 ft., brick, stone and steel, plain foundation, Main St. $150,000.

Mass., Northampton—BANK—First Natl. Bank., c/o J. W. Beal Sons Co., archts., 185 Devonshire St., Boston, having preliminary plans prepared 1 story and basement, rein.-con., brick and steel, plain foundation, 61 Main St. $150,000.

Mass., Northampton — HOSPITAL — Dickenson-Cooley Hospital, 30 Locust St., having plans prepared by K. S. Putnam, 78 Main St., altering and constructing 2 and 3 story and basement, 55 x 100 ft., brick addition to Maternity Ward, plain foundation, Locust St. $150,000 or more.

Mass., Roxbury (Boston P. O.) — HEALTH—City of Boston, G. E. White Fund, G. E. Phelan, mgr., City Hall, plans 3 story and basement, brick, limestone and granite health unit, here. $250,000. Engineer and architect not selected.

Mass., Somerville—HOSPITAL—Trustees Somerville Hospital, F. J. Droyer, chn. building comn., 12 Temple St., plans additional unit, Crocker St. $150,000 or more. Engineer and architect not selected.

R. I., Woonsocket—TEMPLE—Order of Masons, G. A. Farron, c/o Industrial Trust Co., plans masonic temple, Clinton St. To exceed $150,000. Engineer and architect not selected.

Conn., New Haven—CITY HALL—City, J. B. Towers, mayor, receiving competitive plans (from local architects), city hall and auditorium, Orange St., here. $1,750,000. E. V. Meeks, Yale Art School, consult. archt. Noted Dec. 2, 1926.

Conn., Stamford—EXCHANGE—Southern New England Telephone Co., 156 Church St., New Haven, having preliminary plans prepared by R. W. Foote, 185 Church St., New Haven, brick and steel addition, here. $130,000 or more.

N. Y., Jamaica — THEATRE — Allied Owners Corp., 331 Madison Ave., New York City, takes bids in January or February, rein.-con., brick and steel, plain foundation, Jamaica Ave. and Merrick Rd., here. $150,000. C. W. and G. L. Rapp, 231 West 43rd St., New York City, archts. Noted May 5.

N. Y., New York—APARTMENTS—One Hundred Forty West 81st Street Corp., c/o J. M. Felson, archt., 250 West 57th St., having plans prepared 12 story, 104 x 111 ft. apartment, Lexington Ave. and 81st St. $1,000,000. Work will probably be done by separate contracts.

N. Y., New York—APARTMENT—Far Flung Realty Co., Inc., c/o D. Kempner, 522 5th Ave., having preliminary plans prepared by Gronenberg & Leuchtag, 1385 Bway., 15 story apartment, 69-73 East 77th St. $600,000.

N. Y., New York — APARTMENT — Moenat Realty Co., c/o Glick & Duma, archts., 375 East Fordham Rd., having plans prepared 6 story apartment, Nelson Ave. and 174th St. $150,000.

N. Y., New York—APARTMENT—Morgan Studios, Inc., c/o M. M. Taylor, 167 East 78th St., having plans prepared 9 story, 73 x 102 ft. apartment, known as Morgan Studios, 167 East 78th St. $525,000. Engineer and architect not announced.

N. Y., New York — APARTMENTS — Gundstein Building Corp., c/o G. W. Swiller, archt., 4215 3rd Ave., having plans prepared two 5 story, 86 x 125 ft. apartments, White Plains Ave. near Morris Park Ave. $320,000.

N. Y., New York — BANK — West Side Savings Bank, c/o C. O. Bigelow, 110 6th Ave., having plans prepared by Halsey, McCormack & Helmer, 286 5th Ave., 1 and 3 story bank, 6th Ave. and 9th St. $300,000.

N. Y., New York—BANK—Dennison & Hirons, archts., 288 Lexington Ave., soon lets contract 3 story and basement, 8th Ave. and 43rd St., for State Bank, 376 Grand St. $300,000.

N. Y., New York—CLUB—Beaux Arts Institute of Design, 126 East 75th St., having preliminary sketches made by Denison & Hirons, 288 Lexington Ave., 4 story, 50 x 100 ft. club, 304-06 East 44th St. $150,000.

N. Y., New York—HOSPITAL—Babies Hospital, c/o Joint Bd. Columbia University-Presbyterian Hospital, 135 East 55th St., having plans prepared by H. C. Pelton, 415 Lexington Ave., and James Gamble Rogers, 154 East 46th St., 11 story hospital, Bway. and West 165th St. $1,400,000.

N. Y., New York—STORE and DANCE HALL—Bway. Block Corp., c/o W. Melville, 191 Hudson St., having plans prepared by Schultze & Weaver, 17 East 49th St., having plans prepared 3 story, 108 x 207 ft. store and dance hall, Bway. and 51st St. $1,100,000.

N. Y., New York—STUDIO—W. Russell, 1 West 67th St., having skeches made 14 story and basement, 93 x 102 ft. studio building, 160 West 73rd St. $1,200,000. Engineer and architect not announced.

N. J., Belleville (br. Newark)—APARTMENT — Essex Court Holding Co., c/o Baldino & Bellay, archts., 270 Harrison Ave., Lodi, having plans prepared 5 story and basement, 80 x 120 ft., brick and steel, plain foundation, Washington Ave. and Essex St., here. $150,000.

N. J., Cliffside Park (mail Cliffside)—APARTMENT — Angelo DePaolo, c/o A. DePaola, 106 18th St., West New York, will not construct 5 story and basement, brick and steel, plain foundation, Anderson Ave., here. $150,000. Project abandoned. Noted Sept. 8.

N. J., East Orange — APARTMENT — Feldman & Pivnick, 68 Custer Ave., Newark, having plans prepared by R. Botteli, 45 Branford Pl., Newark, 4 story and basement, brick and steel, plain foundation, 44 Lenox Ave., here. $150,000.

N. J., East Orange—CITY HALL—City, City Hall, soon takes bids general contract 3 story and basement, 180 x 250 ft., brick and steel, plain foundation, North Arlington Ave. and New St. $200,000. J. H. and W. C. Ely, 784 Broad St., Newark, archts. Noted Nov. 17.

N. J., Hackensack — APARTMENT — State Store Builders, c/o E. Gerber, archt., 786 Broad St., Newark, having plans prepared 5 story and basement, brick and steel, plain foundation, Pangborn Pl., here. $150,000.

N. J., Newark—APARTMENT—Owner, c/o D. J. Scrocco, archt., 60 Park Pl., having plans prepared 4 story and basement, 80 x 90 ft., brick and steel, plain foundation, Sanford Ave. near Netherland Pl. $175,000.

N. J., Newark—APARTMENT—C. Riess, 262 Ellery Ave., having plans prepared by N. Nadel & M. Fort, 32 Hill St., 4 story and basement, 100 x 125 ft., brick and steel, plain foundation, 191-201 Highland Ave. $200,000.

N. J., Newark — APARTMENT — Stuyvesant Holding Co., c/o M. Klemmt, archt., 68 Clinton Ave., having plans prepared 4 story and basement, brick and steel, plain foundation, 493-99 Roseville Ave. $150,000.

N. J., Perth Amboy—STORE and LOFT—A. Kaufman, 239 State St., having plans prepared by G. M. Ricci, 224 Smith St., 4 story and basement, 100 x 135 ft., rein.-con., brick and steel, plain foundation, New Brunswick Ave. $150,000.

N. J., Perth Amboy—THEATRE—Prudence Realty Co., 102 Washington St., having plans prepared by W. E. Lehman, 972 Broad St., Newark, 2 story and basement, brick and steel, plain foundation, Central R.R. tracks, Smith and Jefferson Sts. $300,000.

N. J., Ridgefield — APARTMENT — Boorstein & Sons, c/o G. M. McEntyre, archt., 524 17th St., West New York, having plans prepared 5 story and basement, 100 x 100 ft., brick and steel, plain foundation, Broad Ave. and Maple St., here. $150,000.

Pa., Ambler—THEATRE and STORE—Solomon Kaplan, archt., 10 South 18th St., Phila., preparing plans 1 story and basement, 100 x 230 ft., brick and steel, 1,200 seating capacity, plain foundation, here. Owner's name withheld.

Pa., Phila.—APARTMENT and STORE—C. C. Caspary, archt., Mitten Bldg., soon lets contract 3 story and basement, 110 x 170 ft., with two 35 x 170 ft. wings, brick and steel, plain foundation, 33rd and Columbia Sts., for P. Shalita & Son, Dauphin and Ridge Sts.

Pa., Phila.—THEATRE and OFFICE—Magaziner, Eberhardt & Harris, archts., 603 Chestnut St., preparing plans 5 story and basement, 100 x 200 ft., rein.-con., brick and steel, plain foundation, Broad and Susquehanna Sts. Owner's name withheld.

Md., Baltimore — HOSPITAL — Union Memorial Hospital, 33rd St. and Guilford Ave., having plans prepared by J. E. Sperry, Calvert Bldg., 6 story and basement, irregular shaped, brick and steel addition, Guilford Ave. between 33rd and 34th Sts. $400,000. H. F. Doeleman, 516 North Charles St., engr.

Tenn., Memphis — WORK HOUSE — Shelby Co. having plans prepared by Harker & Cairns, Court Square Bldg., work house on 10 acre tract, at Mullins Station. To exceed $150,000.

Ky., Covington—HOTEL—Local Syndicate, c/o P. J. Bradshaw, archt., International Life Bldg., St. Louis, Mo., having preliminary plans prepared 8 story and basement, 250 room, rein.-con., brick and stone, here. $1,000,000.

Ky., Louisville—OFFICE and STORE—F. W. Dryborough, 307 South 5th St., having plans prepared 8 story and basement

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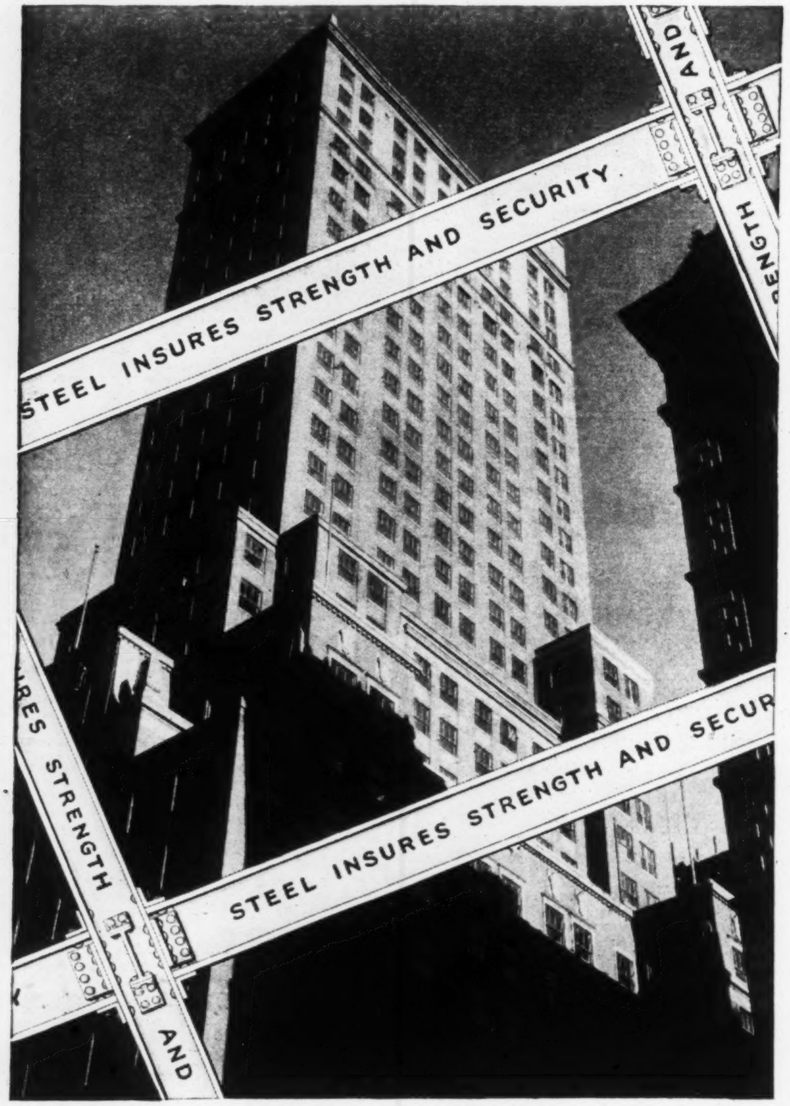
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Steel Insures Strength and Security

Buildings—Commercial (Continued)

office and stone, 620-24 South 5th St. $250,000. Engineer and architect not selected.

Ohio—INSTITUTIONS—Bd. Control, Columbus, having plans prepared by J. E. Harper, Dept. Welfare, Columbus, various institutions, approximately $1,175,000, incl. cottage at Massillon State Hospital, Massillon, $125,000; cottage at Toledo State Hospital, Toledo, $160,000; cottage at Cleveland State Hospital, Cleveland, $150,000; cottage $125,000, and School for Boys, $25,000, both at Ohio Hospital for Epileptics, Gallipolis; and dormitory, Ohio State Reformatory, Mansfield, $5,000; administration building addition, Massillon State Hospital, Massillon, $7,500; tuberculosis wrad, Longview State Hospital, Cincinnati, $40,000; tuberculosis ward at Girls Industrial School, Delaware, $15,000; power house and equipment $85,000, cold storage, kitchen, bakery, etc., $90,000, and laundry and equipment $50,000, all foregoing for Hawthornden Farm, Cleveland State Hospital; power house and equipment, Institution for Feeble Minded, Columbus, $175,000; and wing to laundry building, Institution for Feeble Minded, Orient, $46,000.

O., Canton—MERCANTILE—North Market Realty Co., North Market Ave., takes bids about Jan. 26 5 story and basement, 42½ x 125 ft., brick, Market Ave. S. $200,000.

O., Cincinnati — APARTMENT — Ohio Building & Constr. Co. (owner and archt.), 2513 Burnet Ave., plan 10 story and basement, 75 x 150 ft., brick and rein.-con., plain foundation, Victory Parkway. $1,500,000.

O., Cincinnati—APARTMENT—Stoller & Sander, 909 Mercantile Library, having plans prepared by O. H. Bardon, 203 East 7th St., 3 story and basement, rein.-con. and brick, plain foundation, Hale Ave. $150,000.

O., Cincinnati—THEATRE and OFFICE—Fox Film Co., 850 10th Ave., New York City, having plans prepared by W. W. Ahlschlager, 65 East Huron St., Chicago, Ill., 6 story and basement, brick and rein.-con., plain foundation, Main St. $1,000,000.

O., Cleveland—APARTMENT—B. Benjamin, 9917 Parkgate Ave., having plans prepared by L. R. Walker, 1900 Euclid Ave., 6 story and basement, 50 x 160 ft., brick and steel, 9824 Lake Ave. $250,000.

O., Dayton—HOSPITAL—Good Samaritan Hospital Assn., M. J. Gibbons, Jr., chn. com., 22 Oxford Ave., plans 3 or 4 story hospital, Fairview and Salem Sts. $1,000,000. Engineer and architect not selected.

O., Lakewood (br. Cleveland)—APARTMENT—P. F. Price, 12719 St. Clair Ave., Cleveland, having plans prepared by Allen-Osborn Co., archts. and engrs., Rose Bldg., Cleveland, 12 story and basement, 70 x 200 ft., brick and steel, Edgewater Dr., here. $750,000.

O., Massillon — THEATRE — Massillon Theatre Co., c/o J. Kerr Giffen, archt., Brandt Bldg., Canton, having plans prepared 2 story and basement, 71 x 140 ft., brick, steel and concrete, here. $200,000.

O., Warren—Y. M. C. A., E. W. Brannon, genl. secy., having plans prepared by Keich, O'Brien & Hosker, local archts., and J. F. Jackson, consult. archt., 137 East 45th St., New York City, new building. $300,000.

Ind., Ft. Wayne—APARTMENT HOTEL—Hilgeman & Schaaf, 209 East Wayne St., having preliminary plans prepared by A. M. Strauss, 415 Cal-Wayne Bldg., 8 story and basement, 150 x 155 ft., rein.-con., brick and steel, Fairfield and Berry Sts. $1,000,000. Holden Hotels Co., Chicago, Ill., lessee.

Mich., Benton Harbor — HOTEL and MINERAL BATH HOUSE — Syndicate, c/o Cobb & Eisenberg, archts., 5 North La Salle St., Chicago, Ill., soon takes bids 4 story, 240 room hotel, incl. 20 x 60 ft. swimming pool, etc., Parker Station, 8 mi. from here. $500,000.

Mich., Detroit — APARTMENT and GARAGE — Levine Bros., 3200 West Chicago St., having plans prepared by Wiedmaier & Gay, 1212 Metropolitan Bldg., 4 story and basement, 90 x 182 ft., rein.-con., brick and steel apartment, and 50 car garage, plain foundation, Linwood Ave. $200,000.

Mich., Detroit — CLUB — Union League Club, 35 West Grand River Ave., had plans prepared 6 story and basement, 83 x 130 ft., rein.-con., brick and steel, plain foundation, Fort and Wayne Sts. $1,000,000. Engineer and architect's names withheld.

Mich., Detroit—CLUB HOUSE—Bayview Yacht Club, Motor Boat Lane, purchased site and plans 3 or 4 story, rein.-con., brick and steel, Grayhaven St. $175,000. Engineer and architect not selected.

Mich., Detroit—GARAGE—Book Estate, Book Bldg., having plans prepared by L. Kamper, 3729 Case Ave., 12 story (ultimately 24 story), and basement, 100 x 182 ft., rein.-con., brick and steel, plain foundation, Washington Blvd.

Mich., Owosso—HOTEL—B. K. Gibson, archt., 624 South Michigan Ave., Chicago, Ill., takes bids about Dec. 15, 6 story, rein.-con. and brick, Main and Washington Sts., here, for Holden Owosso Co. $300,000. Noted Nov. 3.

Mich., Pontiac—OFFICE and GARAGE—Owner, c/o J. Kasurin, archt., 502 Empire Bldg., Detroit, having plans prepared 10 story office and 4 story ramp garage, both rein.-con., brick, steel and limestone, plain foundations, $400,000.

Ill., Chicago—APARTMENT and STORE—Arthrop Building Corp., c/o E. A. Nitsche, archt., 28 East Huron St., having plans prepared 9 story and basement, 99 x 99 ft., rein.-con., brick and stone, 1104 Argyle St. $1,000,000.

Ill., Chicago—APARTMENT and STORE—L. F. Urbain, archt., 1254 Lake Shore Dr., soon takes bids 6 story and basement, 50 x 125 ft., rein.-con., brick and terra cotta, Sheridan Rd. near Loyola Ave., for A. A. Miller, c/o architect. $350,000.

Ill., Kankakee—OFFICE and STORE—E. A. Nitsche, 28 East Huron St., Chicago, soon takes bids 5 story and basement, 65 x 90 ft., rein.-con., brick and stone, here, for H. L. Topping.

Ill., Morgan Park (sta. Chicago)—BARRACKS—Morgan Park Military Academy, 2125 West 111th St., having plans prepared by R. H. Oliver, 115 South Dearborn St., Chicago, 3 story and basement, 40 x 175 ft., rein.-con., brick and stone, on campus. $150,000.

Ill., Peoria — HOSPITAL — St. Francis Hospital, c/o J. Vonachen, doctor, 512 Glen Oak Ave., having plans prepared by A. F. Moratz, Peoples Bank Bldg., Bloomington, and takes bids in spring, hospital addition. $500,000.

Wis., Janesville — SANITARIUM — Supervs. Rock Co., Milton Junction, having sketches made by Rowe, Dillard & Rowe, 127 North Dearborn St., Chicago, Ill., 2 and 3 story tuberculosis sanitarium, brick, near County Poor Farm, here. $200,000.

Ia., Keokuk—HOSPITAL—M. J. Geise, archt., Y. M. C. A. Bldg., takes bids about Mar. 1, 4 story and basement, 98 x 150 ft., rein.-con., brick and stone, plain foundation, for Methodist Protestant Hospital Assn., M. C. Jackson, local supt. $400,000. Noted July 28.

Ia., Marshalltown—THEATRE, STORE and OFFICE—Universal Picture Corp., 730-5th Ave., New York City, having preliminary plans prepared 2 story and basement, rein.-con., brick, stone and terra cotta, here. $250,000.

Minn., Minneapolis—STORE and OFFICE—J. Engquist & Sons, 3 West Lake St., having plans prepared 4 story and basement, 75 x 100 ft., rein.-con., brick and stone, West Lake St. near Nicollet Ave. $150,000. Private plans.

Minn., Minneapolis—THEATRE—Finkelstein & Ruben, 425 Loeb Arcade Bldg., having plans prepared by Ellerbe & Co., 510 Essex Bldg., 113 x 185 ft., rein.-con., brick and stone, Lake St. and Stevens Ave. $350,000.

Mont., Bozeman—HOTEL—J. A. Lovelace & J. R. Chambers having preliminary plans prepared by F. F. Willson, 5 or 6 story and basement, 101 x 106 ft. hotel. $160,000.

Mo., Kansas City — HOSPITAL — City having plans prepared by F. Gunn, Continental Bldg., and takes bids about Dec. 23, 6 story and basement negro hospital, rein.-con., fireproof. $250,000.

Mo., Mine La Motte — CLUB — Sweet Water Country Club, c/o J. L. Bowling, Inc., archts., 1196 Arcade Bldg., St. Louis, postponed indefinitely construction 2.5 and 3 story, 40 x 150 ft., native stone and hollow tile, plain foundation, here. $150,000. Noted May 19.

Mo., St. Louis—APARTMENT—S. Koplar, 265 Union Blvd., having preliminary plans prepared approximately 10 story, rein.-con., steel, stone, brick and terra cotta, on 195 x 252 ft. site, Lindell Blvd., and Euclid Ave.

Mo., St. Louis—HOTEL—G. W. Hunter, c/o Midland Real Estate Co., 8 North 8th St., having preliminary plans prepared 12 or more story and basement, 70 x 108 ft., rein.-con., brick, terra cotta and steel, 8th and Market Sts. $1,000,000.

Mo., St. Louis—STORE and APARTMENT—S. J. Weinberg, 816 Chestnut St., purchased site and plans 3 story and basement, 74 x 132 ft., rein.-con., brick and stone, Union St. and St. Louis Ave. $150,000.

Tex., Ft. Worth — APARTMENT — S. Moore, archt., 709 Flatiron Bldg., takes bids about Dec. 20, 3 story, 44 x 101 ft., rein.-con., brick and stone, 2104-6-8 Hemphill St., for N. Stanfield, Ft. Worth. $200,000.

Okla., Pawhuska — COURT HOUSE — Osage Co. having preliminary plans prepared 3 story and basement, rein.-con. and brick addition, plain foundation. $150,000. Engineer and architect not selected.

Wash., Hoquiam — THEATRE and STORE—Huntington & Torbitt, archts., Empire Bldg., Seattle, takes bids about Dec. 19, 2 story, 95 x 150 ft., rein.-con., stucco and stone, here, for Hoquiam Building Co. $150,000.

Calif., Beverly Hills—BANK and OFFICE — California Natl. Bank had preliminary plans prepared by Walker & Eisen, Western Pacific Bldg., Los Angeles, 10 or more story, Beverly Dr. To exceed $250,000.

Calif., Los Angeles—WAREHOUSE—Daleys, Inc., 751 Terminal St., plans 1 story, 100 x 300 ft., brick, concrete and steel, 49th and Alhambra Sts. Austin Co. of California, 777 East Washington St., engr.

Calif., Merced — THEATRE — Golden State & Realty Co., 86 Golden Gate Ave., San Francisco, having plans prepared by M. T. Jorgensen, 742 Market St., San Francisco, fireproof addition, here. $150,000.

Calif., Oakland—CLUB—Roeth & Bangs, archts., 1404 Franklin St., soon takes bids 6 story and basement, rein.-con., Belleview Ave., for Women's Athletic Club, Great Western Power Bldg. $300,000.

Calif., Oakland—HOTEL—H. Schroeder, archt., 354 Hobart St., preparing preliminary plans 14 story and basement hotel. To exceed $500,000. Owner's name withheld.

Calif., Riverside — THEATRE, STORE and OFFICE—El Camino Corp. having preliminary plans prepared by Balch Bros., 1584 West Washington St., Los Angeles, 2 story, approximately 100 x 137 ft., rein.-con. theatre, etc., 1,500 seating capacity, Main St., here. $300,000. West Coast Theaters, Inc., 1619 West Washington St., Los Angeles, lessee.

Calif., San Francisco—HOME and CLUB—Native Daughters of the Golden West, N. S. G. W. Bldg., had plans prepared by J. Morgan, Merchants Exch. Bldg., 4 story and basement, concrete and steel, Baker St. $150,000.

Calif., Yountville—BARRACKS—G. B. McDougall, state archt., Sacramento, takes bids about Feb. 1, 2 story, 50 x 400 ft., steel and rein.-con., here, for State Building Comn. $170,000. W. C. Hays, 1st Natl. Bank Bldg., San Francisco, associated archt. Noted Sept. 1.

Ont., Hamilton—APARTMENT—W. J. Tillotson, 1081 Main St. E., having plans prepared by E. B. Patterson, 143 Wentworth St. N., 3 or 4 story and basement, rein.-con., brick and steel, plain foundation, Fairleith Ave. $175,000.

Ont., Toronto — APARTMENT — W. R. Morson, 148 Bedford Rd., having plans prepared by R. Card, 142 Chester Ave., 3 story and basement, rein.-con., brick and steel, plain foundation, Queen St. and Willow Ave. $150,000.

Ont., Toronto—NEWSPAPER OFFICE and PLANT — Star Publishing Co., 18 King St. W., soon takes bids superstructure 20 story and basement, 170 x 185 ft., rein.-con. and steel office and plant. Total $3,000,000. Excavation, underpinning, rein.-con. foundations, and retaining walls for above, to Thompson Starrett Constr. Co., 205 St. James St., Montreal, Que., approximately $100,000. Chapman & Oxley, Northern Ontario Bldg., archts. Noted June 23.

Ont., Toronto—OFFICE—Holt-Gundy & Co., 140 James St., Montreal, Que., having plans prepared by Chapman & Oxley, Northern Ontario Bldg., 28 story and basement, 100 x 100 ft., rein.-con. or structural steel, brick and stone, concrete foundation, King and Bay Sts., here. $2,250,000.

Ont., Toronto—OFFICE and STORE—Yonge & Dundas Investments Ltd., c/o Kaplan & Sprachman, archts., 305 Dundas St. W., having plans prepared two 2 or 3 story ultimately 5 or 6 story and basement, 20 x 127 ft., rein.-con., brick and steel, plain foundations, Yonge and Dundas Sts. $150,000.

Ont., Toronto—STORE—J. Northway & Son, 240 Yonge St., having plans prepared by Harwood & White, 229 Yonge St., 6 or 7 story and basement, 60 x 110 ft., rein.-con., brick and steel, plain foundation, Louisa and Yonge Sts. $350,000.

Bids Desired

Mass., Cambridge (Boston P. O.) — APARTMENT—See "Contracts Awarded."

Mass., Quincy (Ind. br. Boston) — APARTMENT—See "Contracts Awarded."

Buildings—Commercial (Continued)

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York—APARTMENT HOTEL—See "Contracts Awarded."

N. Y., New York—OFFICE—See "Contracts Awarded."

N. Y., Peekskill—THEATRE—See "Contracts Awarded."

N. Y., Syracuse — APARTMENT — See "Contracts Awarded."

N. J., Asbury Park—GARAGE, Etc.—C. B. Cook, archt., 700 6th Ave., taking bids general contract 3 story and basement, rein.-con., brick and steel, plain foundation, Cookman and Monroe Ave., for Asbury Park Hotel, S. Schneider, 418 Main St. $400,000. Noted Nov. 7.

N. J., East Orange—APARTMENT—See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awarded."

N. J., North Arlington (mail Arlington)—APARTMENT—See "Contracts Awarded."

N. J., Passaic — APARTMENT — See "Contracts Awarded."

N. J., Union City—APARTMENT—See "Contracts Awarded."

N. J., Weehawken—APARTMENT—See "Contracts Awarded."

Pa., Phila.—APARTMENT—See "Contracts Awarded."

Pa., Phila.—LOFT—Dec. 12, by M. A. Bernhardt, archt., 127 South 18th St., 10 story and basement, 64 x 67 ft., rein.-con., brick and steel, plain foundation, 22 North 7th St., for Southern Bookbinding Co., 22 North 7th St.

Ind., Hammond — APARTMENT and STORE — Owner, c/o H. Glube, archt., 360 North Michigan St., Chicago, Ill., taking bids 3 story and basement, 50 x 188 ft., brick and steel, 454 East State St., here. $150,000.

Ind., Indianapolis—HOTEL—Dec. 10, by W. E. Bayfield, Hotel Majestic, Chicago, Ill., 8 story and basement, 70 x 77 ft., rein.-con., brick and steel, Market St. and Capitol Ave., here. $250,000. W. E. Russ, Meridian Life Bldg., archt.

Ind., Washington — COURT HOUSE — Comrs. Davies Co., R. Moren, aud., taking bids and open same about Jan. 1, 3 story and basement, 86 x 118 ft., rein.-con., steel and stone court house. $330,000. Sutton & Routt, Citizens Trust Bldg., Vincennes, archts. Noted Sept. 15.

Mich., Detroit—APARTMENT—See "Contracts Awarded."

Mich., Birmingham—OFFICE—A. Kahn, archt., 1000 Marquette Bldg., taking bids 8 story and basement, 100 x 208 ft., rein.-con., brick, steel and stone, plain foundation, West Maple St., for Wabeek Corp., c/o J. Couzens, Birmingham. $1,000,000. Noted Sept. 29.

Mo., Kansas City—HOTEL—See "Contracts Awarded."

Tex., McAllen—HOTEL—See "Contracts Awarded."

Tex., Waco—MASONIC TEMPLE—Dec. 13, by Order of Mystic Shrine, W. F. Quebe, secy. building comr., taking bids 3 story and part basement, rein.-con., brick and steel masonic temple. $150,000. R. E. Lane, 108½ South 6th St., archt.

Contracts Awarded

Me., Skowhegan — REFORMATORY — State, c/o S. H. Bates, c/o Pulsifer & Eye, Inc., archts., 163 Main St., Lewiston, $ story and basement, brick and steel, detention building at reformatory for women, plain foundation, here, to K. H. Kerr, Rumford. Archts. est. approximately $150,000.

Mass., Arlington (br. Boston)—STORE and OFFICE—Arlington Finance Club, W. A. Muller, 65 Kilby St., Boston, 3 story and basement, 70 x 100 ft., brick and stone, Massachusetts Ave. and Mystic St., to Arlington Constr. Co., 313 Bway., Arlington. Archts. est. approximately $150,000.

Mass., Boston—STORE and OFFICE—J. Stanton, 520 Beacon St., altering and reconstructing 4 story and basement, brick and stone, plain foundation, 165 Newbury St., to M. W. Ryan, 763 Massachusetts Ave., Cambridge. Archts. est. $150,000. Noted Nov. 10.

Mass., Cambridge (Boston P. O.) — APARTMENT — W. B. Bushway, c/o J. E. Holmes Co., archt., 420 Boylston St., Boston will build 3 story and basement, brick and stone, plain foundation, Prospect St. $150,000-$160,000. Work will be done by separate contracts. Noted Nov. 24.

Mass., Cambridge (Boston P. O.)—HOME—City, Overseers of Poor, City Hall, 3 story and basement, 40 x 480 ft., brick and steel, Concord St., to Askin & Sullivan, 580 Massachusetts Ave. Archts. est. $300,000.

Mass., Mansfield — THEATRE and STORE — E. L. and H. L. White, Main St., 1 and 2 story and basement, brick, steel and stone, plain foundation, Main St., to W. H. Barker, 4 Cohannet St., Taunton. Archts. est. $150,000. Noted Dec. 8.

Mass., Quincy (Ind. br. Boston)—APARTMENT—G. J. Van Boemel, 72 Davis St., Wollaston, will build 4 story and basement, brick and stone plain foundation, Glover Ave. $150,000. Work will be done by separate contracts.

Mass., Waltham — HOSPITAL — Dept. Mental Diseases, State House, Boston, general contract 3 story and basement, brick, steel and terra cotta, plain foundation, Trapelo Rd., at junction of town lines Waltham, Lexington and Belmont, to C. H. Cunningham & Sons Constr. Co., 80 Boylston St., Boston, $643,700; heating and ventilating, to R. H. Baker Co., Inc., 238 Main St., Cambridge, $75,470; plumbing, to H. J. Lyons Co., 25 D St., South Boston, $67,470; and electrical work, to Carlisle Electric Co., 250 Stuart St., Boston, $57,350. Grand total $843,990. Noted Nov. 10.

N. Y., Brooklyn—BANK—Halsey, McCormack & Helmer, archts., 286 5th Ave., New York City, general contract 40 story, 98 x 202 ft., brick and steel, Hanson and Ashland Pls., here, to William Kennedy Constr. Co., 215 Montague St., for Williamsburg Savings Bank. Archts. est. $4,000,000. Noted Sept. 29.

N. Y., Buffalo—Y. M. C. A., 45 Mohawk St., Humboldt District Branch, 3 story, 100 x 120 ft., brick, to Tift Constr. Co., Iroquois Bldg., $240,000.

N. Y., Dobbs Ferry—APARTMENT—H. Suchin, Bway., 4 story, apartment, to F. Angelili, 56 West 45th St., New York City. Archts. est. $300,000.

N. Y., Mount Vernon — APARTMENT and STORE—North Street Realty Corp., 6 story apartment, West Lincoln Ave. and North St., to Fredburn Constr. Co., 7 East 44th St., New York City.

N. Y., New York—APARTMENT—Brixton Corp., 944 Lexington Ave., will build 15 story, 75 x 102 ft. apartment, 211 East 72nd St. $150,000. Work will be done by separate contracts. Engineer and architect not selected.

N. Y., New York — APARTMENT — A. D'Antona, 100 West 72nd St., will build 15 story and basement, 78 x 100 ft. apartment, East 96th St. between 5th and Madison Aves. $1,000,000. Work will be done by separate contracts.

N. Y., New York—APARTMENT—Eight Hundred Fifty-Six 5th Avenue Corp., c/o M. E. Paterno, pres., 200 West 72nd St., will build 12 story, 70 x 120 ft. apartment, 856 5th Ave. $800,000. Work will be done by separate contracts. R. Candela, 578 Madison Ave., and Warren & Metmore, 16 East 47th St., archts.

N. Y., New York—APARTMENT—Forty West 77th Street Corp., c/o J. M. Felson, archt., 250 West 57th St., will build 16 story and basement, 84 x 130 ft. apartment, 40 West 77th St. $1,500,000. Work will be done by separate contracts.

N. Y., New York—APARTMENT—H. C. and S. Building Corp., 341 East 149th St., will build 6 story and basement, 80 x 100 ft., brick, 203rd St. and Valentine Ave. $175,000. Work will be done by separate contracts. I. L. Cransman, 341 East 149th St., archt.

N. Y., New York — APARTMENT — Irving Broof Constr. Co., 810 East 156th St., will build 6 story, 50 x 100 ft. apartment, 517 West 161st St. $225,000. Work will be done by separate contracts. Engineer and architect not selected.

N. Y., New York—APARTMENT—One Thousand and Seventy Park Avenue, Inc., c/o Schwartz & Gross, archts., 347 5th Ave., will build 14 story and basement, 100 x 137 ft. apartment, Park Ave. and 88th St. $1,800,000. Work will be done by separate contracts.

N. Y., New York — APARTMENT — Paterno Bros., 601 West 115ht St., will build 14 story and basement, 86 x 110 ft. apartment, Sutton Pl. and 58th St. $850,000. Work will be done by separate contracts. R. Candela, 578 Madison Ave., archt. Noted Oct. 20.

N. Y., New York—APARTMENT—J. M. Paterson, 247 Park Ave., general contract 9 story and basement, 50 x 100 ft. apartment, 3 East 84th St., to Hegeman Harris Co., Inc., 360 Madison Ave. Archts. est. $350,000. Noted Oct. 6.

N. Y., New York—APARTMENT HOTEL—Two Hundred Twenty-Nine East 79th Street Corp., c/o Aaronson & Heidrich, archt., 25 West 43rd St., will build 15 story, 82 x 99 ft., brick, 229-35 East 79th St. $1,000,000. Work will be done by separate contracts.

N. Y., New York — HOSPITAL — Mt. Sinai Hospital, c/o G. Blumenthal, 120 Bway., altering and constructing additional stories to hospital, 1 East 100th St., to Fred'k Page Constr. Co., 45 East 17th St. Archts. est. $300,000.

N. Y., New York — HOSPITAL — New York Hospital and Cornell Medical College, E. W. Sheldon, pres., 46 Park Ave., 10 story hospital, Avenue A, Exterior, 69th and 70th Sts., to Marc Eidlitz & Son, Inc., 41 East 42nd St. Archts. est. $7,000,000. Noted Dec. 1.

N. Y., New York—HOTEL and THEATRE—Havermeyer Constr. Co., steel for 24 story and basement, 150 x 212 ft. apartment, hotel and theatre, Bway. and 75th St., to Levering & Garrigues, 552 West 23rd St.; concrete, to Corbetta Concrete Corp., 103 East 125th St.; and plumbing, to L. Black, 8th Ave. and 44th St. Archts. est. $5,000,000. Noted Feb. 3.

N. Y., New York—OFFICE—Lefcourt & Hass Finance Corp., 1351 Bway., will build 42 story office, 5th Ave. and 43rd St. $11,000,000. Work will be done by separate contracts. Shreve & Lamb, 11 East 44th St., archts. Noted Nov. 10.

N. Y., Peekskill—THEATRE—Gottesman Enterprises, 1540 Bway., New York City, will build 2 story theatre, Park St., here. $500,000. Work will be done by separate contracts. W. W. Johnson, 285 Madison Ave., New York City, archt. Noted Nov. 10.

N. Y., Scarsdale—POST OFFICE and STORE — Scarsdale Impvt. Corp., c/o Scarsdale Natl. Bank, 4 story post office and store building, Chase Rd. and Parkway Pl., to George A. Fuller Co., 949 Bway., New York City. Archts. est. $500,000.

N. Y., Syracuse — APARTMENT — Alibrandi Bros., 305 Griffins Bldg., will build 4 story and basement, 55 x 57 x 169 ft., brick, plain foundation, 1445 South Salina Ave., by day labor. $175,000.

N. Y., Syracuse—STORE and OFFICE—Markus Rosenblum Estate, 2 story and basement, 25 x 105 x 127 ft., rein.-con., brick and steel, plain foundation, 440-52 South Warren St., to Dawson Bros., Union Bldg., $150,000.

N. Y., West New Brighton — COURT HOUSE—J. A. Lynch, pres. Richmond Boro, Boro Hall, general contract combined municipal and magistrates court building, here, to Staten Island Constr. Co., 56 Bay St., St. George, $165,000. Noted Oct. 20.

N. J., East Orange — APARTMENT — Feldman & Pivnick, Inc., 68 Custer Ave., Newark, will build 4 story and basement, 95 x 125 ft., brick and steel, plain foundation, 40 Lenox Ave. $150,000. Work will be done by separate contracts. R. Bottelli, 45 Branford Pl., Newark, archt. Noted Dec. 8.

N. J., Newark—APARTMENT—M. Gray & J. Kruvant, 77 Hedden Terrace, will build 5 story and basement, 130 x 185 ft., brick and steel, plain foundation, Renner Ave. $320,000. Work will be done by separate contracts. H. F. Clark, 38 Clinton St., archt. Noted Nov. 3.

N. J., North Arlington (mail Arlington)—APARTMENT—A. Pomondelli, 207 Market St., Newark, will build 3 story and basement, 100 x 150 ft., brick and steel, plain foundation, Beech St., here. Work will be done by separate contracts. D. J. Scrocco, 60 Park Pl., Newark, archt.

N. J., Passaic—APARTMENT—S. Kaplan, 181 Madison Ave., will build 4 story and basement, 90 x 100 ft., brick and steel, plain foundation, 121-27 Gregory Ave. $150,000. Work will be done by separate contracts. Preiskel & Skvarla, 591 Main Ave., archts.

N. J., Union City — APARTMENT — Auriemma & Machi, 1739 Hudson Blvd., Jersey City, will build 4 story and basement, brick and steel, plain foundation, Bergenline Ave. and 8th St., here. $150,000. Work will be done by separate contracts. C. I. Goldberg, 437 Bway., Bayonne, archt. Noted Nov. 17.

N. J., Weehawken — APARTMENT — J. Levine, 54 Hudson Pl., will build 5 story and basement, brick and steel plain foundation, Park Ave. $150,000. Work will be done by separate contracts. F. Huberti, 116 Hauxhurst Ave., archt. Noted June 16.

Pa., Phila. — APARTMENT—Overbrook Garden Constr. Co., 63rd and Jefferson Sts., will build 4 story and basement, 103 x 180 ft., brick and steel, plain foundation, $400,000. Work will be done by separate contracts. Private plans.

Pa., Phila.—GARAGE—Goldstein Bros., c/o J. E. Fieldstein, archt., Otis Bldg., 1 story, 103 x 215 ft., and 115 x 240 ft., rein.-con., brick and steel, plain foundation. Rochelle and Wissahickon Sts., to L. Rosengarten, Otis Bldg.

Pa., Upper Darby (Phila. P. O.)—THEATRE—Green & Willig, Heymann Bldg., Phila., 2 story and basement, 144 x 159 ft., rein.-con., brick and steel, plain founda-

Buildings—Commercial (Continued)

tion, here, to S. A. Sims & Co., 2315 Walnut St., Phila.

O., Akron—CLUB, etc.—Vista del Largo Beach & Club, club house, two 18 hole golf course, etc., near here, to Amer. Park Builders, 201 East Ontario St., Chicago, Ill. Archts. est. $500,000.

O., Cincinnati — HOSPITAL — Comrs. Hamilton Co., Nov. 1, 5 story and basement, 50 x 148 ft., brick and rein.-con., plain foundation, Gurley Rd., to Hodges Constr. Co., 241 Walnut St., $171,964. Noted Oct. 20.

O., Cleveland—APARTMENT—L. Cahn, 2099 Lamberton Rd., 3 story and basement, brick, Lake Ave., to Kutnick, 11511 Temblett Ave. Archts. est. $200,000. Noted Dec. 1.

O., Cleveland — APARTMENTS — A. E. Emerman, 502 Ulmer Bldg., two 2 story and basement, 37 x 99 ft., brick, 11221 Parklawn Ave., to H. Dolinsky, 10701 Greenlawn Ave. Archts. est. $150,000. Noted Dec. 1.

O., Cleveland—CLUB HOUSE—Chagrin Valley Country Club, H. D. Sims, pres., 720 B. F. Keith Bldg., 1 and 2 story, 149 x 192 ft., brick, North Miles Rd., to Austin Co., 16112 Euclid Ave. Archts. est. $200,000. Noted Oct. 20.

Mich., Detroit — APARTMENT — R. W. Babcock, 8300 Woodward Ave., will build 3 story and basement, 42 x 165 ft., brick and steel, plain foundation, Seward Ave., by day labor. $175,000. Private plans.

Mich., Detroit—HOTEL—Tuller Hotel Co., Tuller Hotel, Park and Adams St., 30 story and basement, with two 10 story wings, rein.-con., brick and steel, caisson foundation, Adams Ave. and Park St., to J. W. Blair Constr. Co., 3212 Book Tower Bldg.

Mich., Fordson—FIRE ALARM—City, B. P. Esper, city clk., 2 story and basement, rein.-con., brick and steel, plain foundation, Michigan Ave., to Gamewell Co., 70 East 45th St., New York City, N. Y. Noted Nov. 3.

Ill., Chicago—APARTMENT—J. J. Jensen, archt., 1105 Lawrence Ave., masonry and carpentry contract 3 story and basement, 100 x 124 ft., brick and terra cotta, 6400-08 Glenwood Ave., to Erickson & Magnuson, 4753 Bway.; plumbing, to R. J. Nelson Co., 2130 West Van Buren St.: and heating, to W. F. Thumn, Inc., 2549 Lawrence Ave., for Devon Building Corp., c/o C. Wishnack, 6300 Kenmore Ave. Archts. est. $150,000. Noted Nov. 10.

Ill., Chicago — APARTMENTS — V. C. Carlson Constr. Co., 626 Grove St., Evanston, will construct masonry and carpentry work 6 and 8 story, 118 x 176 ft., brick, 5906-22 Clark St., here. $400,000.

Ill., Chicago—OFFICE and STORE—C. Subert, c/o L. W. Sanders & Co., archts., 30 North Dearborn St., general contract 7 story, 40 x 80 ft. and 20 x 120 ft., 306-10 West Randolph St., to Saloman-Waterton Co., 228 North La Salle St. Archts. est. $250,000.

Mo., Kansas City—HOTEL—Fisher Real Estate Co., Commerce Bldg., will build 8 story and basement, 52 x 140 ft., rein.-con. and terra cotta, 1212 Linwood Blvd., by day labor. $300,000. P. Drotts, Reliance Bldg., engrs.

Mo., Kansas City — HOTELS — Phillips Building Co., Victor Bldg., will build 3 hotels, one on southwest corner Armour and Central Sts.; 8 story and basement, corner Armour and Central Sts.; also 10 story and basement, Valentine and Bway. Sts., all rein.-con., by day labor. To exceed $150,000 each. Private plans.

Tex., McAllen—HOTEL and STORE—M. R. Nelson will build 10 story and basement, 100 x 150 ft., rein.-con., cement tile and stucco, plain foundation, by day labor. $350,000. H. P. Smith, c/o Natl. Bank of Commerce Bldg., San Antonio, archt. Noted Nov. 17.

Calif., Glendale—APARTMENT—Galvin Realty Co., 4 story and basement, brick, South Glendale Ave., to Yale Bros., 512 East Colorado St., $155,000.

Calif., Los Angeles—APARTMENT—J. Ford, 1053 South Alvarado St., 5 story, 50 x 145 ft., rein.-con. and steel, 1825 North Kingsley Dr., to A. M. McLellan, 1057 South Alvarado St. $150,000.

Calif., Los Angeles—APARTMENT—F. J. Murphy, 4 story and basement, 85 x 120 ft., brick, South Normandie Ave., to Interstate Mortgage Co., 6001 Santa Monica Blvd., approximately $175,000.

Calif., San Pedro—CITY HALL—Dept. Pub. Wks., 7 story and part basement, 100 x 117 ft., steel and rein.-con., 7th and Beacon Sts., to C. O. Brittain, supt. City Constr. Dept., under segregated contract basis. Archts. est. $570,000. This corrects report in Dec. 1 issue.

Ont., Toronto — APARTMENT — H. Davidson, 36 Toronto St., masonry and foundation contracts for 3 story and basement, rein.-con., brick, steel and stone, plain foundation, Lonsdale Rd., Forest Hill, to W. Pugh, 1252 Broadview Ave. Archts. est. $150,000.

Ont., Toronto — APARTMENT — F. M. Johnston, 52 Victor Ave., 3 story and basement, 66 x 132 ft., rein.-con., brick and steel, plain foundation, Pretoria and Broadview Aves., to Graham & Sibbett, 330 Bay St. Archts. est. $150,000.

Ont., Toronto—GARAGE—Toronto Motor Car Co., 120 Adelaide St. E., general contract 2 story and basement, 139 x 145 ft., rein.-con., brick and steel, plain foundation, Yonge St. and Orchard View Blvd., to H. A. Wickett Constr. Co., 156 Front St. E. Archts. est. $175,000. Noted Nov. 17.

Ont., Toronto — HOTEL — Canadian Pacific Ry., Windsor Sta., Montreal, Que., fabrication of structural steel frame approximately 12,000 tons for Royal Oak Hotel, 28 story and basement, 1,000 room, Front St., here, to Hamilton Bridge Wks., Ltd., General Assurance Bldg., McGregor & McIntyre, 1139 Shaw St., and Dominion Bridge Co., Reford Bldg.; erection steel, to Dominion Bridge Co., Reford Bldg. Archts. total est. $10,000,000. Noted Oct. 20.

Ont., Toronto — NEWSPAPER OFFICE and PLANT — See "Proposed Work."

B. C., Vancouver—OFFICE and SHOW ROOM—British Columbia Electric Ry. Co., 425 Carral St., 3 story and basement, 50 x 120 ft., rein.-con., steel and stone, plain foundation, Granville and Dunsmuir Sts., to A. C. McDougall & Sons Ltd., 410 Seymour St., $200,000.

Buildings—Industrial

Proposed Work

Me., Portland—PLANT—Winslow & Co., Inc., Forest Ave., plans reconstructing plant, recently destroyed by fire. $250,000. Webster & Libby, 11 Exchange St., archts. Noted Nov. 3.

Mass., Leominster—FACTORY—Foster-Grant Co., Inc., 28 Manning Ave., altering and constructing brick addition. $40,000 or more. Engineer and architect not selected.

Mass., New Bedford — GARAGE and AUTO REPAIR SHOP — H. Marcotte, 522 Ashley Blvd., having plans prepared by O. Crapo, 1428 Acushnet Ave., 1 story, 50 x 100 ft., rein.-con., plain foundation, Tarklin Hill Rd. and Belleville Ave.

Mass., New Bedford—TOY FACTORY—Ted-Toy-Lers, Inc., 60 South Water St., having plans prepared 4 story, 50 x 100 ft., brick and timber addition. $60,000. Private plans.

Mass., New Bedford—OIL DISTRIBUTING PLANT—Tide Water Oil Sales Corp., 11 Bway., New York City, having sketches made by P. G. Wyman, 11 Bway., New York City, 1 story, rein.-con., North Water St., here. $60,000.

Mass., Somerville — PLANT — Amer. Oil Products, 230 Milk St., Boston, had plans prepared 1 story, 55 x 135 ft., rein.-con. addition, plain foundation, Washington St. Monks & Johnson, 99 Chauncy St., Boston, engrs.

R. I., Providence—FACTORY—Jewelers Supply Co., c/o A. Farnham, Garnet St., having preliminary plans prepared by C. R. Makepeace & Co., Grosvenor Bldg., 2 or 3 story, steel, Eddy and Ernest Sts. $40,000 or more.

R. I., Providence—JEWELRY FACTORY—Brier Mfg. Co., 70 Ship St., having plans prepared by F. B. Perry, 44 Franklin St., 2 story, timber, plain foundation, Ship St. $75,000.

N. J., Allenhurst—STORAGE—Utilities Power & Light Corp., Bradley Beach, soon lets general contract 2 story and basement, brick and steel, plain foundation, here. $150,000. Private plans.

Pa., Pittsburgh—ICE PLANT—Consolidated Ice Co., 13th and Pike Sts., having plans prepared by C. C. Coneby, engr. and archt., 6611 Euclid Ave., Cleveland, O., 1 story, brick, steel and concrete addition. $100,000.

Md., Baltimore — PLANT — Harbison-Walker Refractories, Hays St., Pittsburgh, Pa., J. E. Lewis, pres., purchased site and plans concrete and brick, Patapsco Ave. and 9th St., here. $1,000,000. Engineer and architect not selected.

Ohio — POWER HOUSE, LAUNDRY, BAKERY, etc. — See "Buildings—Commercial."

Mich., Monroe—PAPER PLANT—Consolidated Paper Co. having plans prepared 3 story and part basement, 200 x 700 ft., rein.-con. and brick addition, plain foundation, 1st St. $500,000. Private plans.

Mich., Royal Oak (Ind. br. Detroit) — CAR REPAIRING PLANT — See "Railways."

Ill., Chicago—SUB-STATION—Sanitary Dist. of Chicago, 910 South Michigan Ave., soon takes bids electric sub-station, Howard St. $350,000. E. J. Kelly, 910 South Michigan Ave., engr.

Minn., Mankato—CEMENT PLANT—Carney Cement Co. having plans prepared by G. Pass & Son, 2 story and cupola, 40 x 130 ft. plant. $125,000.

Neb., Hastings — FREIGHT DEPOT — Union Pacific R.R. Co., R. L. Huntley, ch. engr., 1416 Dodge St., Omaha, having plans prepared freight depot, here. $75,000.

Tex., Alta Loma—FIG PRESERVING and PRODUCTS PLANT—Thaman Fig Assn., c/o F. H. and H. F. Thaman & associates, plans plant. $50,000, incl. complete equipment.

Tex., Alvin — PLANT — Magnolia Fig Products Co., c/o T. C. Edwards, Alvin, having plans prepared enlarging present plant, etc. $100,000. Private plans.

Tex., Richmond—COTTON GIN PLANT—W. T. Eldridge, Sugarland, plans cotton gin on northeast side Brazos River, near here. $50,000.

Tex., Rio Grande—PLANT—Amer. Brick Co., Inc., Nassar Bldg., McAllen, plans timber plant, $50,000 brick and 20,000 tile daily output, here. $75,000. Private plans.

Okla., Sand Springs — PLANT — Sand Springs Chemical Co., c/o O. V. Martin & W. H. Colvin, Jr., 39 South La Salle St., Chicago, Ill., purchased plant and having surveys made improvements and new equipment, here. $600,000.

Wash., Seattle — CEMENT PLANT — Pacific Coast Co., L. C. Smith Bldg., plans cement plant, 1,000,000 bbl. capacity. $3,000,000.

Ore., Portland—REPAIR SHOP, etc.—R. Hemingway, engr., Bedell Bldg., takes bids about Jan. 15, 2 story and basement, 100 x 120 ft., rein.-con. auto repair tire and battery service, East Water and East Taylor Sts., for Nicolai & Johnson. $40,000.

Calif., Chula Vista — LINEN MILL — Imperial Linen Mill Co., c/o Hamm, Grant & Bruner, Inc., engrs., Ferguson Bldg., Los Angeles, plans 1 story, approximately 30 x 970 ft., brick and steel on 50 acre site, here.

Bids Desired

Mass., Somerville (br. Boston)—WAREHOUSE—Boston & Maine R.R. Co., Boston, W. J. Backes, ch. engr., taking bids 1 story, 150 x 540 ft., brick and steel, plain foundation, Middlesex Ave., here. To exceed $40,000. Private plans.

N. Y., New York — LAUNDRY and POWER HOUSE—Dec. 14, by B. S. Coler, comr. Pub. Welfare, Municipal Bldg., alterations and additions to power house, incl. heating and refrigerating work, laundry machinery, etc., at Lincoln Hospital, Concord Ave. and East 141st St.

N. J., Newark—SHOWROOM, STORAGE and DISTRIBUTING STATION — Dec. 9, by F. A. Phelps, archt., 21 Fulton St., general contract 4 story and basement, 150 x 215 ft., brick and steel, plain foundation, 342-50 Central Ave., for Boyertown Burial Casket Co., Boyertown, Pa. $150,000. Noted Nov. 10.

N. J., Newark—INDUSTRIAL—Dec. 12, by Myers, Bigelow & Stanley, archts., 24 Walnut St., general contract 5 story and basement, 102 x 130 ft., rein.-con., brick and steel, plain foundation, Pennington St. for Salvation Army, 237 Washington St. $150,000. Noted Oct. 27.

N. J., Passaic—MANUFACTURING—See "Contracts Awarded."

N. J., Perth Amboy—AIRPLANE FACTORY—See "Contracts Awarded."

Pa., Phila.—DYE HOUSE—See "Contracts Awarded."

Mo., Vandalia—GARMENT FACTORY—Ely & Walker Dry Goods Co., 1520 Washington Ave., St. Louis, taking bids 2 story and basement, 60 x 176 ft., rein.-con. and brick, here. $45,000. O. M. Rubach, 207 Murphy Bldg., East St. Louis, Ill., archts.

Contracts Awarded

Vt., Rutland—MACHINE SHOP—F. R. Patch Mfg. Co., general contract 2 story, 88 x 145 ft. steel, concrete machine shop, incl. basement garage, to L. F. Caproni, 1056 Chapel St., New Haven, Conn.

Vt., West Rutland—SAW MILL and FINISHING SHOP — Green Mountain Marble Corp., P. F. McCormack, pres., general contract 70 x 160 ft. mill. and 120 x 160 ft., shop, both 1 story, structural steel and brick, to L. F. Caproni, 1056 Chapel St., New Haven, Conn.; and 300 ft. crane runway will be done by day labor.

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Buildings—Industrial (Continued)

Mass., Charlestown (Sta. Boston) — MANUFACTURING—Amer. Briquet Co., Land Title Bldg., Phila., Pa., 2 story, brick, plain foundation, Mystic Wharf, here, to W. W. Lindsey & Co. Inc., Harrison Bldg., Phila., Pa.

Mass., Roxbury (Sta. Boston) — FACTORY—Chickering & Sons, 791 Tremont St., Boston, altering and constructing 1 story, rein.-con. addition, plain foundation, 18 Station St., here, to W. H. Bailey Co., 68 Broad St., Boston. Archts. est. $40,000 or more. Noted Nov. 24.

Mass., South Boston (sta. Boston)—SHOP—Gillette Safety Razor Co., 41 West 1st St., 2 story, rein.-con. addition, 58 West 2nd St., to Turner Constr. Co., 178 Tremont St., Boston.

Mass., Waltham (Ind. br. Boston)—FACTORY—Reliance Garnetting Mills, 2 story, 50 x 110 ft., brick addition, plain foundation, 23 Summer St., to R. P. Meisner, Auburndale.

Mass., West Quincy (mail Braintree)—REPAIR and SERVICE GARAGE—Blue Hill Filling Station, 1230 Furnace Brook Parkway, 1 story, rein.-con., brick and steel, plain foundation, Furnace Brook Parkway, to L. L. McDonald, 47 Garfield St., South Quincy. $40,000.

Mass., West Springfield—(br. Springfield) —POWER PLANT—Boston & Albany R.R., G. A. Kirley, ch. engr., South Sta., Boston, 1 story, 50 x 114 ft., brick, steel and stone, plain foundation, to J. G. Roy & Sons Co., 21 Silver St., Springfield. Archts. est. to exceed $40,000. Noted Nov. 17

R. I., Burrillville (mail Harrisville) — MILL—Orrel Mills, Inc., Glendale, 2 story mill, here, to Eastern Constr. Co., 335 North Main St., Woonsocket. Archts. est. $40,000 or more.

Conn., Hartford — LAUNDRY — J. C. DeVito, 291 Franklin St., 1 story, 50 x 100 ft. and 25 x 35 ft. wing, brick and steel, plain foundation, 276 Franklin St., to F. Laraia, 203 Otis St.

Conn., Waterbury — FACTORY — Amer. Fastener Co., 54 Maple St., 5 story and basement, 40 x 105 ft., rein.-con. and brick, Maple St., to Complete Constr. Co., 201 Wood St. Archts. est. $75,000. This corrects report in Sept. 22 issue.

N. J., Linden — LABORATORY — Combustion Utilities Corp., 60 Wall St., New York City, general contract 1 story, 50 x 125 ft., brick and steel, plain foundation, to Austin Co., 120 Bway., New York City. Archts. est. $40,000.

N. J., Passaic — MANUFACTURING — Manhattan Rubber Mfg. Co., Willett St., will build 1 story and basement, 50 x 120 ft., brick and concrete, Van Houten Ave. $40,000. Work will be done by separate contracts. Private plans.

N. J., Perth Amboy—AIRPLANE FACTORY—Huff Airplane, Inc., I. R. Crouse, 497 Division St., will build 1 story and basement, brick and steel, plain foundation. $50,000. Work will be done by separate contracts. Greisen & Tuzik, 175 Smith St., archts. Noted Aug. 25.

Pa., Bridgeville—PAINT FACTORY—J. B. Sipe Co., general contract 1 story, 50 x 82 ft., brick and steel addition, to Austin Co., Union Trust Bldg., Pittsburgh. Archts. est. $40,000.

Pa., Phila.—DYE HOUSE—Heintz Mfg. Co., Front and Olney Sts., will build 1 story, 35 x 110 ft., corrugated iron and steel, plain foundation, here, by day labor. Carson & Carson; 22 South 15th St., archts.

N. C., Reidsville — FACTORY — Amer. Tobacco Co., 111 5th Ave., New York City, general contract 2 story (ultimately 7 story) and basement, 82 x 252 ft., brick and steel, here, to Fiske-Carter Constr. Co., Greenville, S. C. Noted Oct. 27.

Ill., Chicago—ALUMINUM FOUNDRY—A. A. Wickland & Co., archts., 5 South Michigan Ave., masonry contract 2 story, 145 x 160 ft., brick, 36th Pl. and California Ave., to Lind Constr. Co., 6404 South State St., for Advance Pattern Fdry. Co., 36th Pl. and California Ave. Archts. est. $250,000. Noted Nov. 17.

Ill., Chicago—FREIGHT HOUSE—Chicago & Eastern Illinois Ry. Co., L. C. Hartley, ch. engr., 66th St. and Union Ave., masonry contract 1 story, 40 x 600 ft., brick, 1401-59 South Dearborn St., to F. H. McGraw, Conway Bldg. Archts. est. $100,000.

Wis., Madison—GARAGE—R. M. Koen, 308 Commercial Natl. Bank Bldg., 1 story, 50 x 136 ft., 1910-20 Winnebago St., to Vogel Bros., 2263 East Washington Ave. Archts. est. $45,000.

Wis., Milwaukee — LAUNDRY — A. H. Kienapple, archt., 445 Milwaukee St., excavation and masonry contract for 2 story and basement, 120 x 217 ft., rein.-con., brick and steel, plain foundation, Muskego Ave., to W. O. Krohn, 623 52nd St.; carpentry, to C. A. Kleppe & Son, 229 Center St.; and tile, to Milwaukee Tile & Mosaic Co., 135 Mason St., for South Side Wet Wash Laundry, Inc., 641 15th Ave. Archts. est. $100,000.

Mo., Independence—FACTORY—Gleaner Combine Harvester Co., Inc., steel factory, here, to Truscon Steel Co., Bryant Bldg., Kansas City. Archts. est. $75,000.

Mo., Kansas City—SERVICE STATION —Scarritt Estate, Scarritt Bldg., 2 story and basement, 50 x 125 ft., rein.-con. and brick, here, to Taylor Constr. Co., Reliance Bldg. Archts. est. $50,000.

Mo., St. Louis—CLEANING and DYEING PLANT—Star Dyeing & Cleaning Co., 2515 North Grand Blvd., 2 story and basement, 74 x 91 ft., rein.-con., brick, stone and terra cotta, 2515-21 North Grand Blvd., to Mississippi Valley Constr. Co., 802 Chestnut St. Archts. est. $60,000. Noted Nov. 17.

Mo., St. Louis—SHOE FACTORY—Wolff-Tober Shoe Mfg. Co., 2511 Sullivan Ave., 2 story and basement, 54 x 102 ft., rein.-con. and brick, 25th St. and Sullivan Ave., to D. R. Harrison, 1106 Ambassador Bldg. $50,000.

Mo., St. Louis—AMMONIA PLANT—Natl. Ammonia Co., 3600 North Bway., 1 story, 76 x 150 ft., brick, concrete and steel addition, 1 Destrahan St., to A. H. Haeseler Building & Constr. Co., 620 Wainwright Bldg. Archts. est. $40,000.

N. D., Fargo — GARAGE — S. Field, Moorhead, Minn., 1 story, 100 x 140 ft. garage, 3rd Ave. and 5th St. N., to T. F. Powers & Co., 419 8th St. N. F. Archts. est. $40,000.

Tex., Houston — FACTORY — Houston Show Case & Mfg. Co., 3616 Washington St., Houston, 120 x 300 ft., 24 x 200 ft., 68 x 116 ft., and 20 x 28 ft. buildings, all 1 story, Harvard St., to E. C. Maclay Co., Houston, $200,000.

Okla., Stillwater—DAIRY and INDUSTRIAL—Bd. Affairs, Capitol Bldg., Oklahoma City, 2 story and basement, 88 x 170 ft., rein.-con. and brick dairy, plain foundation, here, to Bailey & Burns, Norman, $91,300; and 3 story and basement, 78 x 160 ft., rein.-con. and brick industrial building, plain foundation, here, to D. Tankersley, Tradesmens Bldg., Oklahoma City, $96,800, both for A. & M. College.

Ont., Hamilton—BAKERY—Ideal Bread Co., 13 Sanford Ave. S., general contract 3 story and basement, 75 x 120 ft., rein.-con., brick and steel, plain foundation, King St. and Sanford Ave., to Fred Constr. Co., 6 Hughson St. S. Archts. est. $150,000. Noted Nov. 17.

Ont., Hamilton—COKE PLANT—Hamilton By-Product Coke Ovens, 15 Main St. E., general contract, brick and steel, Depew St., to Semet-Solvay Eng. Co., 40 Rector St., New York City, N. Y., who sublet masonry contract to C. W. Parrish, 30 Cliff Ave., and steel sash, to Trussed Concrete Steel Co., Federal Bldg., Toronto. Engrs. est. $400,000.

Ont., LaSalle—BREWERY—Hofer Brewing Co., Royal Bank Bldg., Windsor, general contract 4 story and basement, 90 x 160 ft., concrete, brick and steel, Front St., here, to Gosselin Constr. Co., 120 Parlington Ave., Sandwich. Archts. est. $150,000. Noted Oct. 6.

Ont., London—BOTTLING PLANT—Labatts Brewery, bottling plant, to Hayman Sons, 432 Wellington St., $100,000.

Ont., Strathroy—WOOLLEN MILLS—Butler Woollen Mills will build 2 story and basement, 50 x 75 ft. mill, Frank St. Private plans.

Buildings—Educational, Religious

Proposed Work

N. H., Concord — SCHOOL — St. Pauls School, S. V. Druty, in charge, having preliminary plans prepared by B. W. Morris, 101 Park Ave., New York City, school, on campus. $200,000.

N. H., Laconia — DORMITORY — State, Dept. Mental Diseases, having plans prepared by Wells & Hudson, Hanover, 3 story and basement, brick at school for Feeble Minded. $150,000 or more. Noted May 12.

Mass., Pracut (br. Lowell)—SCHOOL—Town, C. H. Randall, supt. Schools, having preliminary plans prepared by Brown & Poole, 8 Chapman St., New Bedford 2 story and basement, brick and stone, plain foundation. $150,000.

Mass., Fall River — HIGH SCHOOL — City, W. H. Monks, mayor, having plans prepared by E. Corbett, 70 Bedford St., Technical High School, brick and steel, Rock St. $1,000,000.

Mass., Fall River — LIBRARIES — City, Library Dept., plans 2 libraries, one at North Main St., and other at Grove Village with park adjoining. $150,000 or more. Engineer and architect not selected.

Mass., Grafton—HIGH SCHOOL—Town, A. S. Cole, secy. building com., plans altering and constructing 2 story and basement, brick addition. $150,000 or more. Engineer and architect not selected.

Mass., Medford (br. Boston)—DRAMA and ARTS—Tufts College, J. A. Cousens, pres., having preliminary plans prepared by Andrews, Jones, Biscoe & Whittmore, 50 Congress St., Boston, brick and steel drama and arts building. $250,000.

Mass., Medford (br. Boston) — MEN'S DORMITORY—Tuft's College, Engineering Dept., plans men's dormitory. $150,000.

Mass., Plymouth—SCHOOL—Town, T. G. Bodell, supt. Schools, plans 2 story and basement, brick and stone, Lincoln St. $150,000. Engineer and architect not selected.

Mass., Provincetown—CHURCH—Christian Science Church Corp. having sketches made by H. A. Mears, 120 Tremont St., Boston, altering and constructing 1 and 2 story and basement addition. $150,000 or more.

R. I., Pawtucket—SCHOOL—City, c/o C. H. Holt, mayor, plans 2 story, brick, Newport Ave. To exceed $150,000 or more. Engineer and architect not selected.

Conn., New Haven — MUSEUM, etc. — New Haven Historical Society, J. L. Gilson, pres., 185 Church St., having plans prepared by J. F. Kelly, 39 Center St., brick and stone museum and historical building, Whitney Ave. $300,000.

Conn., New London—NURSES HOME—Lawrence Memorial Hospital, c/o Hospital Assn., Ocean Ave., plans 3 story and basement, brick and steel nurses some, incl. gymnasium and auditorium, Montauk Ave. and Faire Harbor Pl. $150,000.

Conn., Norwalk—HIGH SCHOOL—City, Bd. Educ., J. Lund, supt., West Ave., South Norwalk, plans high school. $350,000. Engineer and architect not selected.

N. Y., Bolton Landing—SCHOOL—Bd. Educ. having plans prepared by J. R. White, 109 State St., Albany, and takes bids in early spring, high and grade school. $225,000.

N. Y., Brooklyn—CHURCH—Church of Our Lady of Refuge, Ocean and Foster Aves., having preliimnary sketches made by McKenna & Irving, 15 Park Row, New York City, granite church, Ocean and Foster Aves. $250,000.

N. Y., Brooklyn—COMMUNITY—Beth Elohim, M. Steinbrink, pres., 215 Montague St., takes bids in February, 4 story, brick and steel, 169 8th Ave., $300,000. M. E. Freehoff, 415 Lexington Ave., New York City, associated architect. D. Levy, 100 East 42nd St., New York iCty, archt.

N. Y., Mount Vernon—SCHOOLS—Bd. Educ. having plans prepared by Werner & Windolph, 1 West 47th St., New York City, altering or constructing and additions to 7 schools. *750,000.

N. Y., New York—LIBRARY—Rockefeller Institute, c/o Coolidge, Shepley, Bulfinch & Abbott, archts., Ames Bldg., Boston, Mass., having plans prepared 3 story, basement and sub-basement, 72 x 89 ft., steel and limestone library and dining hall, concrete foundation, Exterior St. between 64th and 67th Sts., here. $500,000-$600,000.

N. J., Cliffside Park (mail Cliffside) — SCHOOL — Bd. Educ., Boro Hall, having sketches made by F. J. Ricker, 685 Hudson Ave., West New York, 2 story and basement, brick and steel, plain foundation, here. $150,000.

N. J., Elizabeth—HIGH SCHOOL—Bd. Educ., 417 South Broad St., soon takes bids general contract 4 story and basement, brick and steel, plain foundation, East Scott Pl. $400,000. H. B. Brady, 333 North Broad St., archt. Noted Apr. 14.

N. J., Elizabeth—SCHOOL—Bd. Educ., 417 South Broad St., having sketches made by H. B. Brady, 333 North Broad St., 2 story and basement, brick and steel, plain foundation, Cross Ave., $250,000; also three 2 story and basement, brick and steel additions to George Washington School 1, East Jersey St., Abraham Lincoln School, Grove St., and Theodore Roosevelt School 17, Bayway St., $150,000 each. Noted July 14.

N. J., Elizabeth—SCHOOLS—Bd. Educ., 417 South Broad St., having sketches made by H. B. Brady, 333 North Broad St., 3 schools, one 3 story and basement, Magnolia Ave. near 5th St., $300,000; and two 2 story and basement, one on Shellby Ave. and other on site not selected, $150,000 each, all brick and steel, plain foundations.

Buildings—Educational, Religious (Cont.)

N. J., Fairview—SCHOOL—Bd. Educ., Boro Hall, plans 2 story and basement, brick and steel school. $150,000. Engineer and architect not selected.

N. J., Palisades Park — SCHOOL — Bd. Educ., Boro Hall, having sketches made by Hacker & Hacker, Fort Lee Trust Bldg., Fort Lee, 2 story and basement, brick and steel, plain foundation. $175,000. Noted Nov. 10.

N. J., Perth Amboy—SCHOOL—Church of Our Lady of Hungary, 697 Courtland St., having revised plans prepared by G. M. Ricci, 224 Smith St., 2 story and basement, 85 x 200 ft., brick and steel, plain foundation, Cortland St. $175,000. Noted July 28.

N. J., Plainfield—SCHOOL—Bd. Educ., 119 West 9th St., plans 2 story and basement addition to Emerson School, plain foundation, $175,000. Engineer and architects names withheld.

N. J., Roselle Park (mail Roselle)—HIGH SCHOOL—Bd. Educ., Boro Hall, plans 3 story and basement, brick and steel high school. $250,000. Engineer and architect not selected.

N. C., Durham—SCHOOL—City, School Bd., G. C. White, chn., having plans prepared by Milburn-Heister Co., Hill Bldg., Wash., D. C., 2 story and basement, 183 x 202 ft. addition, incl. 26 class rooms, manual training, domestic science rooms, gymnasium, cafeteria and auditorium, Morgan St. $200,000 or more.

Tennessee—SCHOOLS—State Bd. Educ., Nashville, H. H. Horton, gov., soon takes bids West Tennessee State Normal School at Memphis, East Tennessee State Normal School at Johnson City, Middle Tennessee State Normal School at Murfreesboro, Polytechnic School at Cookeville, Austin Peay Normal School at Clarksville, and Agricultural and Industrial State Normal School at Nashville. $900,000 appropriated. Noted May 19.

O., Canton — CHURCH — St. Joseph Roman Catholic Church, C. H. Trieber, pastor, 2427 Tuscarawas Ave., having plans prepared by E. T. P. Graham, 171 Newbury St., Boston, Mass., and F. Stillman, associated archt., 6007 Euclid Ave., Cleveland, superstructure 1 story, limestone and steel church. $150,000.

O., Cleveland Heights (Warrensville P. O.)—CHURCH and SUNDAY SCHOOL—Immanuel Evangelical Congregation, c/o P. Moretz, pastor, 7124 Kinsman Rd., Cleveland, having plans prepared by Small & Rowley, 1836 Euclid Ave., Cleveland, 1 story and basement, 45 x 140 ft., brick, steel and concrete, here. $150,000.

O., Painesville—SCHOOLS—Bd. Educ. Painesville Twp. having plans prepared by Small & Rowley, 1836 Euclid Ave., Cleveland, two 1-story buildings and 4 room addition to present school, rein.-con., brick and steel. $200,000.

O., Yellow Springs — LABORATORY — Antioch College, A. E. Morgan, pres., plans laboratory. $300,000. Engineer and architect not selected.

Ind., Indianapolis — AUDITORIUM — School Comrs., 150 North Meridian St., had plans prepared by Vonnegut-Bohn-Muller, 610 Indiana Trust Bldg., Arsenal Technical High School Auditorium, rein. con. and steel. $215,000.

Ind., Mt. Vernon — SCHOOL — School Comrs. having preliminary plans prepared by N. S. Spencer & Son, 304 South Wabash Ave., rein.-con., brick and steel school $180,000.

Mich., Bloomfield Hills (Birmingham P. O.)—SCHOOL—Bd. Educ., having plans prepared by J. R. F. Swanson, Woodward Ave. and Long Lake Rd., 2 story and basement, 10 room, rein.-con., brick and steel, incl. auditorium, plain foundation. $325,000.

Mich., Detroit—CHURCH—Immaculate Conception Church, c/o G. A. Mueller, archt., 1510 Stroh Bldg., having plans prepared 2 story and basement, brick and steel, plain foundation, Trombly and Moran Sts. $200,000.

Mich., Pontiac — CHURCH — Central Methodist Church Congregation having plans prepared by L. Black, Capitol Natl. Bank Bldg., Lansing, 2 story and basement, brick, steel and stone, plain foundation, West Huron St. $150,000. Noted Nov. 17.

Ill., Chicago—SCHOOLS—Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., plans during 1928, Lane High School, Western Ave. and Addison St., $2,500,000; 9 high schools, one at Wabash Ave. and 49th St., one at Barry Ave. and Melvina St., one at Carmen and Christiana Aves., one at Linder and Fullerton Aves., one at 17th St. and Keeler Ave., one at Foster Ave. and Robey St., one at Sherwin and Rockwell Sts., one at 82nd St. and Essex Ave., and other in Norwood Park, $1,500,000 each; 3 elementary schools, one at Avers Ave. and Argyle St., one at Parker and Lakewood Aves., one other at Dickens and Melvina Aves., $500,000 each; 2 schools for crippled children, one at Carmen and Keystone Aves., and other at 95th and South State Sts.; also 8 additions, one at Wrightwood and Kosner Aves., one at 65th and Wood Sts., one at 49th St. and South La Salle Ave., one at 650 East 91st St., one at 133rd St. and Burley Ave., one at 10041 Union Ave., one at 54th St. and Ingleside Ave., and other at 14th St. and Kedvale Ave. J. C. Christensen, 650 South Clark St., archt.

Ill., Rockford—SCHOOL—Bd. Educ., J. Alder, pres., 615 South 4th St., having plans prepared by Peterson & Johnson, Swedish American Bldg., and takes bids early in 1928, 3 story, rein.-con., brick and stone, Huffman and Custer Sts. $350,000.

Wis., Milwaukee — CHURCH — Fourth Church of Christ Scientist, 459 Prospect Ave., having plans prepared by C. D. Faulkner, 307 North Michigan Ave., Chicago, Ill., 2 story and basement, brick and stone, Downer St. and Kenwood Ave. $200,000.

Wis., Neenah—SCHOOL—Bd. Educ., 561 East Wisconsin St., having revised plans prepared by J. D. Chubb, 109 North Dearborn St., Chicago, Ill., and takes bids in January, 2 story, 150 x 200 ft., brick and stone, Elm St. $400,000. Former bids rejected. Noted Aug. 25.

Kan., Wellington—HIGH SCHOOL—Bd. Educ. takes bids about Mar. 1, 3 story, rein.-con., brick and stone, plain foundation. $275,000. Schmidt, Boucher & Overend, 4th Natl. Bank Bldg., Wichita, archts. Noted Nov. 24.

Mo., St. Louis—NURSES HOME—Jewish Hospital, 216 South Kingshighway Blvd., having preliminary plans prepared rein.-con., brick, steel and stone, Kingshighway Blvd. and Parkview Pl.

Mo., St. Louis—SCHOOL—St. Elizabeth Catholic Parish, 2721 Pine St., purchased site and plans 3 story and basement, 130 x 152 ft., rein.-con., brick and stone, 4465 Cook St. $200,000.

Arkansas — UNIVERSITY — Methodist Church, c/o J. Thomas, pastor, Exchange Bank Bldg., Little Rock, having preliminary plans prepared rein.-con., brick and stone buildings for university. $2,500,000 upwards.

Tex., Abilene—SUNDAY SCHOOL—First Baptist Congregation, c/o W. Jackson, pastor, soon lets contract two 4 story, 80 x 140 ft. wings, North 3rd and 2nd Sts. $150,000. W. Nichol & G. F. Campbell, 29-30 Radford Bldg., Abilene, archts. Noted Nov. 10.

Okla., Ponca C[illegible]—DORMITORY—Marland Refining Co., having plans prepared by J. D. Forsyth, Ponca City, Girls Dormitory known as Marland Institute, 2 story and basement, 50 x 200 ft. $150,000.

Calif., Berkeley — INFIRMARY — Bd. Regents University of California having

Latest Subway Unit Prices

All the unit prices on $21,256,380 worth of new subway contracts in New York City and Philadelphia have been printed in convenient and permanent form for use and for filing. These have not been published in *Engineering News-Record—not a reprint.*

This 8-page pamphlet gives the summaries of bids of thirty-nine (39) contractors on the following subway projects:

- Route 8, Sections 6 A-1 and 6 E-2, Brooklyn, N. Y., station finish, 6 bidders; $240,509.
- Route 109, Section 1, Brooklyn, N. Y. C.; 19 bidders, $3,758,992.
- Route 45, Sections 1 and 2, Manhattan, N. Y. C.; 8 bidders, $9,986,999. This line passes under the Municipal Building.
- Contract 109, Broad St. Subway, Philadelphia, Pa.; 6 bidders, $7,269,880.

INCLUDED—A list of the contractors who built and are building the New York City subways from 1921 through 1927. There are 46 separate contracts ranging from $45,165 to $22,282,309, and averaging $4,400,000, and totaling $201,891,355.

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Buildings—Educational, Religious (Cont.)

plans prepared by A. Brown, Jr., 251 Kearny St., San Francisco, fireproof, on campus. To exceed $500,000.

Calif., Beverly Hills—SCHOOL—Beverly Hills School Dist., having preliminary plans prepared by R. C. Flewelling, 423 Camden Dr., part 1 and 2 story, rein.-con., incl. auditorium, 550 seating capacity, library, etc. $175,000.

Calif., Long Beach—SCHOOL—Bd. Educ. having revised plans prepared by Dedrick & Bobbe, Heartwell Bldg., 3 story, 70 x 140 ft. rein.-con. and art stone, 7th St. and Locust Ave. $230,000.

Calif., Santa Barbara—SCHOOL—G. B. McDougall, state archt., Sacramento, takes bids about Jan. 15, 3 story, 150 x 200 ft., brick and rein.-con. home economics building, at State Teachers College, here, for State Building Comn., Sacramento. $165,000.

Ont., Ford City—SCHOOL—Pub. School Bd., C. W. Caple, chn., 54 Walker Rd., Walkerville, receiving competitive plans (from local architects) 2 story, 12 room, concrete, brick and stone. $175,000. Engineer and architect not selected.

Ont., Toronto—CHURCH—Bond St. United Church, Bond St., had plans prepared by S. B. Coon & Son, 4 St. Thomas St., 1 story and basement, 60 x 100 ft., concrete, brick, steel and stone, stone or brick foundation, Elginton Ave. and Avenue Rd. $150,000.

Ont., Toronto—CHURCH—Greenwood United Church, 719 Greenwood Ave., plans 1 and 2 story and basement, rein.-con., brick and steel, plain foundation, Wolverleigh Ave. near Woodkine Ave. $150,000. Engineer and architect not selected.

Ont., Toronto—LIBRARY—Library Bd., College and George Sts., having plans prepared by Chapman & Oxley, Northern Ontario Bldg., and Wickson & Gregg, Temple Bldg., 2 story, brick, steel and stone addition. $400,000. Noted Apr. 8,1926.

Bids Desired

Tenn., Memphis—LIBRARY, DORMITORY and GYMNASIUM—Dec. 15, by G. Mahan, Jr., archt., City Savings Bank Bldg., new library and gymnasium, also girls dormitory addition, for State Bd. Educ., Nashville.

O., Cleveland—CHURCH—D. H. Farnam & R. E. Lawrence, archts., The Arcade, taking bids and open same about Dec. 28, 1 story, brick and steel Archwood Ave., for Archwood Ave. Congregational Church, L. J. Sharp, pastor, 3422 Mapledale Ave. $150,000.

Ind., Hobart—HIGH SCHOOL—School Comrs., G. Dickey, supt., taking bids 2 story and basement, 90 x 200 ft., rein.-con., brick and steel, incl. 2 laboratories, gymnasium, and 20 class rooms. $200,000. Wainwright & Vaughn, 1st Natl. Bank Bldg., Hammond, archts. Noted Oct. 27.

Ind., Indianapolis—CHURCH and SUNDAY SCHOOL—Presbyterian Church, 34th and Central Sts., taking bids steel and stone addition. $300,000. V. Eaton, 7007 Euclid Ave., Cleveland, O., engr. J. W. C. Corbusier, Keith Bldg., Cleveland, O., archt.

Ind., Indianapolis—SCHOOL—Dec. 23, by School Comrs., 150 North Meridian St., School 84, 2 story and basement, rein.-con., brick and steel, incl. auditorium, domestic science laboratory, and wood working room, 57th St. between Central Ave. and Washington Blvd. Snider & Rotz, 703 Merchants Bank Bldg., engrs. Kopf & Deery, 620 Knights of Pythias Bldg., archts.

Ill., Chicago—HIGH SCHOOL—Dec. 15, by Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., Kelley Junior High School, rein.-con., steel, stone and terra cotta, West 42nd St. and California Ave. $1,500,000. Former bids rejected. J. C. Christensen, 650 South Clark St., archt. Noted Oct. 6.

Calif., Claremont—DORMITORY—G. B. Kaufmann, archt., Union Bank Bldg., Los Angeles, taking bids 2 story, rein.-con. dormitory, here, for Scripps College for Women. $175,000. Noted Aug. 5.

Calif., Monrovia—HIGH SCHOOL—Dec. 20, by Trustees Monrovia-Durate High School Dist., 4 rein.-con. buildings. 350,000. Austin & Ashley, Chamber of Commerce Bldg., Los Angeles, archts. Noted Aug. 25.

Ont., Islington—HIGH SCHOOL—S. B. Coon & Son, archts., 4 St. Thomas St., Toronto, taking bids 2 story and basement, 8 room, brick and stone, concrete foundation, here, for Etobicoke Twp., S. Barratt, clk. $150,000. Noted Nov. 17.

Bids Received

O., Cleveland—HIGH SCHOOL—Bd. Educ., F. G. Hogen, dir., Nov. 21, John Hayes High School, 4 story and basement, 200 x 238 ft., brick, steel and concrete, East 107th St., from C. Shutrump & Sons Co., Erie Bldg., $1,198,200. Noted Nov. 3.

O., Mt. Washington (sta. Cincinnati)—SCHOOL—St. Gregorys Seminary, 4 story and basement, brick and rein.-con., plain foundation, Ohio Park, from M. J. Roche Constr. Co., 600 Southern Ohio Bank, Cincinnati, $1,500,000.

Contracts Awarded

Mass., Agawam—CHURCH—St. David's Church, M. E. Mott, pastor, 1 story and basement, brick and stone, plain foundation, to W. J. Quinn, 578 Summer Ave., Springfield. Archts. est. $150,000.

N. Y., Amenia—SCHOOL—Commissioner Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, general contract 24 buildings at Wassaic State School, here, to Seglin Harrison Constr. Co., 615 Walbridge St., Buffalo, $2,359,220; heating, to H. N. Gardner, 920 Green Ridge St., Scranton, Pa., $237,580; plumbing, to Chippewa Plumbing Co., 80 College St., Buffalo, N. Y., $183,223; and electrical work, to Langdon & Hughes, 246 Elizabeth St., Utica, $79,532. Grand total $2,859,535. Noted Oct. 27.

N. Y., Chappaqua—SCHOOL—J. P. Thompson, Mann & McNeille, associated archts., 70 East 45th St., New York City, 2 story, brick, Greeley Ave., here, to J. Borup, 8 Cedar St., Bronxville, for Bd. Educ. $234,360. Noted Oct. 20.

N. Y., New York—CHURCH and AUDITORIUM—St. Theresa's Roman Catholic Church, Morris Park and Pilgrim Aves., church and auditorium, to Delta Contg. Co., 30 Church St. Noted Sept. 22.

N. Y., New York—CHURCH-SCHOOL—Church of Our Lady of Angels, 2860 Sedgwick Ave., church-school, to Frank O'Hare Co., Inc., 270 Madison Ave. Archts. est. $200,000.

N. Y., Nyack—SCHOOL—Bd. Educ., Village Hall, general contract 2 story and basement, 150 x 250 ft. school, here, to Young & French, 103 Park Ave., New York City, $379,780. Noted Dec. 8.

N. Y., White Plains—CHURCH—Church of Our Lady of Mt. Carmel, 70 South Lexington Ave., 1 story, brick and stone addition, to Briante Constr. Co., 12 Hillside Ave. Archts. est. $170,000. Noted Aug. 18.

N. Y., Willsboro—HIGH SCHOOL—Bd. Educ., high school, to J. McCambly Co., Plattsburg. $133,000. Noted June 30.

N. J., North Arlington (mail Arlington)—SCHOOL—Our Lady Queen of Peace, P. O'Connor, pastor, Ridge Rd., general contract 2 story and basement, 85 x 145 ft., brick and steel, plain foundation, Ridge Rd. and Worthington Pl., to W. H. Fissel & Co., 1328 Bway., New York City. Archts. est. $150,000.

N. J., North Haledon (mail Paterson)—SCHOOL—Boro Council, Boro Hall, masonry contract 2 story and basement, brick and steel, plain foundation, to Alberg Constr. Co., 3 Church St., Paterson. Archts. est. $150,000.

N. J., Trenton—SCHOOL—Hamilton Twp. general contract 8 room addition to Klockner School, to W. Burton, 25 Winder Ave., Trenton, $118,645. Noted Aug. 18.

N. J., Union City—MONASTERY—Wilfred Anthony, archt., 131 East 47th St., New York City, general contract 3 story and basement, brick and steel, plain foundation, West St., here, to J. A. Meenan, Inc., 153 West 72nd St., New York City, for St. Michaels Monastery, 381 West St. Archts. est. $500,000. Noted Nov. 17.

O., Cleveland—ACADEMY—St. Joseph Academy, Riverside Dr., 4 story and basement, 161 x 191 ft., brick, steel and concrete, Riverside Dr., to W. J. Schirmer Co., 1720 Euclid Ave. Archts. est. $450,000.

Ind., Danville—SCHOOL—Trustees, general contract 2 story and basement, rein.-con., brick and steel, to R. Bryant, Franklin. Archts. est. $150,000. Noted Oct. 20.

Mich., Dearborn—SCHOOL—Bd. Educ., E. E. Walborn, secy., and G. D. Mason & Co., archts., Griswold St., Detroit, 2 story and basement, rein.-cno., brick and steel, plain foundation, to L. G. Olsen, 11737 Michigan Ave., Detroit. Archts. est. $200,000. Noted Nov. 3.

Federal Government Work

Proposed Work

N. Y., New York—Boiler—U. S. Engineer Office, Army Bldg., Whitehall St., plans for Lighter "Rockaway."

Va., Arlington—Water Circulating System—Spec. 5467—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans water circulating system, at Naval Radio Station, here.

Wis., Sparta—Mess Halls, etc.—Quartermaster 6th Corps. Area, Chicago, Ill., plans 9 typical mess halls, 1 camp dispensary and 1 club at Camp McCoy, here.

Mo., St. Louis—Pipe Line Dredge—U. S. Engineer Office plans repairing and reconditioning U. S. Pipe Line Dredge "Fort Chartres."

Tex., Texas City—Federal, Post Office and Custom House—Treas. Dept., at office Supervising Archt., Wash., D. C., having preliminary plans prepared 3 story and basement, rein.-con., brick and steel federal building, post office and custom house, here.

Wash., Seattle—Dredging—U. S. Engineer Office, plans dredging salt water basin of Lake Washington Canal.

Bids Desired

Me., Portland—Dredging—Jan. 5 by U. S. Engineers Office, Custom House, Boston, Mass., dredging in Fore River, Portland Harbor, here; adv. E. N.-R. Dec. 8.

N. Y., Brooklyn—Hydrogen Gasometer—Spec. 5479—Dec. 21, by Bureau Yards & Docks, Navy Dept., Wash., D. C., 3,000 cu.ft. hydrogen gasometer at Navy Yard, here; adv. E. N.-R. Dec. 8. Noted Dec. 1 under "New York."

Pa., New Brighton—Enlarging—Dec. 28, by Treas. Dept., at office Supervising Archt., Wash., D. C., enlarging money order and registry division at U. S. Post Office, here. J. A. Wetmore, Wash., D. C., acting superv. archt.

Tenn., Nashville—Machinery—Jan. 9, by U. S. Engineer Office, new machinery for towboat "John C. Irwin," here; adv. E. N.-R. Dec. 8.

O., Columbus—Lighting—Dec. 16, by Treas. Dept., at office Supervising Archt., Wash., D. C., lighting at U. S. Post Office, here.

Bids Received

Mass., Camp Devens—Barracks—Constructing Quartermaster, Nov. 22, 1 infantry battalion and 1 infantry regimental barracks, here, from Van Asdlen Constr. Co., Stock Exchange Bldg., Phila., Pa., $459,846, and heating $44,160. Noted Nov. 10.

Ky., Louisville—Beartrap Leaves—U. S. Engineers Office, P. O. Box 72, fabricating and erecting beartrap leaves for Dam 53, Ohio River, here, from Independent Bridge Co., P. O. Box 1920, Pittsburgh, Pa., $58,870. Noted Nov. 10.

Contracts Awarded

N. Y., Fort Wadsworth (mail Staten Island)—Barracks—Constructing Quartermaster, 39 Whitehall St., New York City, constructing Battalion Barracks building, here, to Murch Bros. Constr. Co., Railway Exch. Bldg., St. Louis, Mo., $283,543. Noted Nov. 24.

Pa., Harrisburg—Kitchens and Mess Hall—U. S. Property & Disbursing Officer, 29 combination kitchens and mess halls, 7 animal shelters, etc., here, to S. B. Shiffler, Hummelstown, $43,396.

Ky., Dawson Springs—Boilers—U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., 4 horizontal tubular boilers for U. S. Veteran's Bureau Hospital 79, Outwood, here, to Casey-Hedges Co., Vulcan St., Chattanooga, Tenn., $7,510. Noted Dec. 1.

Mont., Fairfield—Clearing Site—Bureau Reclamation, clearing Gibson Reservoir site, 1,200 acres, Sun River Irrigation Project, to W. S. Leighty, Gering, Neb., $36,500.

California—Landing Field—Dept. Commerce, Airway Extensions, G. C. Miller, supt., Sacramento, clearing 80 acre landing field between Blue Canyon and Emigrant Gap, to M. C. Langstaff, Forest Hill, at $114.75 per acre.

Porto Rico—San Juan—Quarters—Spec. 5448—Bureau Yards & Docks, Navy Dept., Wash., D. C., double quarters at U. S. Naval Radio Station, here, to Benitez & Gautier, Box 314, Santurce, $9,500 (150 days). Noted Nov. 24.

T. H., Pearl Harbor—Barracks—Bureau Yards & Docks, Navy Dept., Wash., D. C., general contract subsistence building, laundry and boiler house, at Naval Operating Base (Submarine base), here, to C. A. Blume, 1327 6th Ave., San Francisco, Calif., $444,415; also plumbing, steam heating, oil distribution and electrical work, to R. E. Woolley, 302 Castle & Cooke Bldg., Honolulu, $108,000. Noted Sept. 22.

Unclassified

Proposed Work

Comfort Station—Dorchester (br. Boston), **Mass.**—City of Boston, Park Dept., 33 Beacon St., plans concrete comfort station in Town Field. $50,000. W. P. Long, chn. Park Dept.

Golf Course—Shrewsbury, Mass.—Hillsweld Club, Inc., W. E. Stiles, pres., plans 36 hole golf course, Cherry St. Section. $25,000 or more. Stiles & Van Kleek, 97 Newbury St., Boston, archts.

Comfort Station—Pawtucket, R. I.—City, c/o C. Holt, mayor, plans comfort station, Dexter and Main Sts. $25,000. G. A. Carpenter, city engr.

Grade Crossing Elimination — Cheecktowaga (mail Depew) **N. Y.**—Pub. Serv. Comn., Albany, plans eliminating Harlem Ave. crossing New York Central R.R. tracks, by raising grade railroad on overhead structure. $200,000.

Amusement Park—St. Bernard, La.—St. Bernard Realty & Amusement Co., Inc., New Orleans, purchased 100 acre site and plans amusement park, incl. grandstand, club house, stable, swimming pool, dance hall, picnic grounds and concessions stands, here. $1,000,000. Engineer and architect not selected.

Gas Holder—Duluth, Minn.—C. E. Evans, city comr. with supervision Duluth Water & Light Dept., plans $500,000 program, incl. 3,000,000 cu.ft. gas tank (bids in January) gas compressing plant for 1928, $340,000; installing 16 in. gas mains from Garfield Ave. and Superior St. to 8th Ave. for 1930, $240,000; and constructing 1,000,000 cu.ft. gas holder in eastern section city for 1931, $140,000. Engineering forces Duluth Water & Light Dept., will prepare plans.

Boiler—St. Paul, Minn.—Ramsey Co. Bd. Control, O. J. Tong, secy., 207 Pittsburgh Bldg., soon takes bids boiler in heating system and laundry equipment at Ancker Hospital, Jefferson and Colborne Sts. $50,000.

Lighting System—St. Joseph, Mo.—Making preliminary plans White Way lighting system, 152 type 61-D king posts, 393 type 1227-D king bracket lights, and resetting 100 intersection lamps, etc. $64,500. W. M. Spann, City Hall, engr.

Health Resort—Baxter (mail Pueblo), **Colo.**—J. D. Crosby, 2143 South Acoma St., Denver, M. Stein, 122 East 4th St., Pueblo and H. Greenlade, Pueblo, plan health resort around two hot mineral wells, incl. hotel, cottages, store, garage, filling station, etc., here. $350,000-$500,000. Architect not selected.

Gas Mains—Pueblo, Colo.—Pueblo Gas & Fuel Co., 120 West 5th St., and H. L. Doherty Co., 60 Wall St., New York City, made surveys expansion and improvement city gas mains. $250,000.

Oil Pipe Line—Texas—West Texas Pipe Line, Midland (subsidiary of Atlantic Refining Co., 1211 Chestnut St., Phila., Pa.), plans 71 mi. 10 in. oil pipe line from Hendricks pool in Winkler Co. to Midland, here. $2,000,000. Work will probably be done by day labor. Private plans.

Land Development — Galveston, Tex. — Cedar Lawn Co., c/o C. W. Thompson, Central Natl. Bank Bldg., making plans developing "The Gardens" subdivision, incl. shell streets, water distributing system and sanitary sewerage system. To exceed $25,000. Private plans.

Transmission Line—Jacksonville, Tex.—Gulf Pub. Serv. Co., New Iberia, La. (subsidiary of General Pub. Utilities Co.), making plans transmission line from Jacksonville to Troup via Mount Selman, here. $50,000.

Lighting System—Oklahoma City, Okla.—Made preliminary plans 200 post White Way circuit on Hudson St., Grand and Washington Aves. $30,000. B. M. Hart, City Hall, engr.

Lighting System—Los Angeles, Calif.—Plans ornamental lighting system in various sections city. $75,000.

Encampment—San Luis Obispo, Calif.—State of California and Federal Govt. having plans prepared by G. B. McDougall, Sacramento, frame buildings on concrete foundations, roads, water, electric and sewerage systems, etc., for Natl. Guard Permanent Encampment, here. $500,000.

Car Barns, etc.—Toronto, Ont.—Toronto Transportation Comn., 35 Yonge St., making plans 1 story, concrete, brick and steel car barns, concrete foundations incl. yards, steam boiler plant, Runnymede Dist. $500,000. Private plans.

Bids Desired

Sewer Connections, etc. — New York — Dec. 16, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, constructing sewer connections at various locations Brooklyn and Queens Boros; also miscellaneous construction at 8th St. Station, Bway.-4th Ave. Rapid Transit R.R., here.

Fire Alarm System—Brooklyn, N. Y.—Dec. 12, by J. J. Dorman, comr. Fire Dept., Municipal Bldg., New York City, portion underground fire alarm system, in Flatbush, Boro Park, and Bensonhurst, here.

Electric Lighting System — New York, N. Y.—Dec. 15, by B. M. Patten, comr. Pub. Markets, Municipal Bldg., electric lighting system in railroad yard and approach area and under viaduct Bronx Municipal Terminal Market, Exterior and 151st Sts.

Hangar—Rochester, N. Y.—Dec. 14, by Dept. Pub. Wks., City Hall, hangar building at Municipal Aviation Field, Scottsville Rd.

Wharf Sheds—Lake Charles, La.—Dec. 20, by G. Beatty, pres. Lake Charles Harbor & Terminal Dist., 3 steel wharf sheds. $160,000.

Grade Crossing Elimination—Cleveland, O.—Dec. 28, by Bd. Comrs. Cuyahoga Co. (1st unit) grade crossing elimination Henry St. Sect. White House Crossing, 81,000 cu. yd. excav., 2,310 cu.yd. 1-2-4 Class "C" concrete paving, 450,000 lb. reinforcing, etc. $156,560. F. Lander, Court House, engr.

Transmission Line — Washington — Dec. 27, by City of Morton, power transmission between Morton and LaGrange via Elbe and Mineral. $60,000.

Tunnel—North Vancouver, B. C.—Dec. 19, by W. D. Harvie, secy. Harbor Comrs., 525 Seymour St., Vancouver, ⅓ mi. 16 x 26 ft. 18 in. rein.-con. tunnel under Lonsdale Ave. $260,000. H. W. Frith, 525 Seymour St., Vancouver, engr. Noted July 14.

Contracts Awarded

Tunnel—Lynn, Mass.—Lynn Gas & Electric Co., 90 Exchange St., 700 ft. 6 x 6 concrete tunnel, off Broad St., to R. E. Runels Constr. Co., Hildreth Bldg., Lowell.

Swimming Pool—Somerton (sta. Phila.), **Pa.**—Owner, c/o E. A. Schoppe, archt., 1437 Spruce St., Phila., 75 x 100 ft., rein.-con. swimming pool and filters, lockers, etc., Lincoln Highway, here, to Nason & Cullen, Ardmore. Noted Nov. 24.

Golf Course, Yacht Basin, Etc.—Jacksonville, Fla.—Riboult Corp. constructing golf links, club house and yacht basin, St. George Island, near here, to O. P. Woodcock Co., Barnett Bank Bldg. Archts. est. $150,000.

Grain Elevator — Council Bluffs, Ia. — Chicago & Northwestern R.R. Co., West Jackson and Franklin Sts., Chicago, Ill., W. J. Towne, ch. engr., 113 x 160 ft., rein.-con. addition to grain elevator, 110 ft. high, incl. 35 bins and 24 interspaces each 110 ft. high, 1,100,000 bu. capacity, north 8th St. and Ave. L, here, construction above piles, to Barnett-Record Co., Flour Exchange Bldg., Minneapolis, Minn.; excavation, to C. A. Wickham & Co., Council Bluffs, and pile driving, to Whitney Bros. & Co., Duluth, Minn. Engrs. total est. $250,000.

Steel Tank—Missouri—See "Railways."

Skating Rink and Swimming Pool—Kansas City, Mo.—Pli-Mor Co., 32nd and Main Sts., general contract rein.-con. and steel, 32nd and Main Sts., to Fogel Constr. Co., 618 Reliance Bldg. Archts. est. $300,000.

Natural Gas Pipe Line, etc. — Texas — Stamford Gas Co., c/o C. O. Moore, pres., Stamford, 341 mi. 8 in. all-welded gas pipe line from line Northern Texas Utilities Co. near Chillicothe extending to Stamford, Hamlin, Rotan and Roby, also natural gas distributing system, 6- to 8-in. mains, laterals and booster unit, in Stamford, to Skaggs Bros., Stamford, approximately $2,500,000 and $75,000 respectively.

Materials

Proposed Work

Cement—Chicago, Ill. — Cook Co. Highway Dept., 137 North Clark St., takes bids about Dec. 15, 750,000 bbl. cement. G. A. Quinlan, County Building, engr.

Cast Iron Main—San Bernardino, Calif.—W. Starke, city water supt., plans purchasing 500 ft. 20 in. c.i. main for installation across Lytle Creek dip on West Base Line.

See proposal advertising on page 145

Bids Desired

Cast Iron Pipe, etc.—Boston, Mass.—Dec. 21, by Supply Dept., H. S. Frost, supt., 900 tons 8 in., 50 tons 10 in., 800 tons 12 in., and 50 tons 30 in. Class "B" c.i. pipe, 50 tons special castings, etc. to Pub. Wks. Dept.

Iron Castings—Boston, Mass.—Dec. 16, by Supply Dept., H. S. Frost, supt., 400,000 lb. gate and hydrant iron castings to Pub. Wks. Dept.

Iron Castings—Boston, Mass.—Dec. 19, by Supply Dept., H. S. Frost, supt., 400,000 lb. c.i. branches and curves, also 100,000 lb. 9x9 c.i. flanged frames to Pub. Wks. Dept.

Pipe Stock—Boston, Mass.—Dec. 15, by Supply Dept., H. S. Frost, supt., 200,000 lb. c.i. service pipe stock, also 400,000 lb. c.i. frames and covers to Pub. Wks. Dept.

Sand, etc.—Long Island City, N. Y.—Dec. 13, M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 12,000 cu.yd. sand in scows, and 30,000 cu.yd. broken stone and screenings to Flushing Asphalt Plant; 3,000 cu.yd. broken stone of trap rock screenings and 4,000 bags portland cement.

Pipe, Frogs, Crossings, etc.—Phila., Pa.—Dec. 16, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 32nd and Market Sts., West Phila., pipe, Contr. 128; crossings, frogs and switches, Contr. 129; recropping rail, Contr. 130.

Corrugated Metal Culvert Pipe—South Carolina—Dec. 21, by State Hy. Dept., Columbia, specified sizes corrugated metal culvert pipe and creosoted timber guard rail posts, etc., for use in maintenance work during period Jan. 1 to Dec. 31, 1928. B. M. Sawyer, Columbia, ch. highway engr.

Gravel — Meridian, Miss. — See "Streets and Roads."

Electric Light Cable—Chicago, Ill.—Dec. 14, by M. J. Kennedy, comr. Gas & Electricity, Room 614, City Hall, various kinds and amounts electric light cable for extending street lighting system.

Paint, Enamel, etc.—Iowa—Dec. 27, by State Hy. Comn., Ames, bridge paint, equipment enamel, marking paint, calcium chloride and bituminous materials for repairing concrete pavement cracks. R. F. White, highway comr.

Water Pipe and Valves, etc. — Pueblo, Colo.—Dec. 13, by Trustees Pueblo Water Works, 319 West 4th St., 247 tons 24 in. and 399 tons 20 in. Class "B," 216 tons 24 in. and 122 tons 16 in. Class "A" bell and spigot pipe, 42,460 lb. pig lead, 1,400 lb. jute packing, six 24 in., four 20 in., two 16 in., two 8 in. and thirty-six 6 in. hub end gate valves, 48 crosses, tees, plugs and reducers of Class "B" and "D," ranging in various dimensions, one flanged 90 degree base ell, etc. $100,000. D. D. Porter, 319 East 4th St., Pueblo, engr.

Pipe—Arcadia, Calif.—G. G. Meade, city clk., taking bids 300 ft. 8 in. and 800 ft. 10 in. pipe Class B-150 or sand-cast centrifugal pipe.

Pipe—Burlingame, Calif.—City Purchasing Agent taking bids 42,600 ft. 2- to 12-in. Class "B" iron pipe.

Bids Received

Steel Sheet Piling—Houston, Tex.—For 36,378 sq.ft. steel sheet piling, from Sheet Piling Inc., 17 John St., New York City, $18,498.

Contracts Awarded

Structural Steel and Lumber—Cincinnati, O.—Comrs. Hamilton Co., Court House, 246,500 lb. structural steel for temporary viaduct over Cleveland, Cincinnati, Chicago & St. Louis R.R. tracks and Mill Creek, on 6th St., to General Iron Wks. Co., Front and Harriet Sts., $9,219 engrs. est. $10,846; also 6,760 lin.ft. white oak piling, 212,000 ft. structural fir timbers, 89,124 ft. No. 1 and 3,667 ft. No. 2 common pine, to Buskirk Lumber Co., 8th and Horne Sts., $16,296 engrs. est. $17,642. Noted Nov. 3.

Aggregate — Anamosa, Ia. — Auditor Jones Co., 51,000 tons coarse aggregate for concrete paving Federal Aid Project 86, to Dubuque Stone Products Co., Dubuque, $62,620.

Pipe—El. Centro, Calif.—For 3,000 ft. 4 in. "B" c.i. pipe, to Pacific States C. I. Pipe Co., Subway Terminal Bldg., Los Angeles, at $0.444 per ft.

Pipe, etc. — Los Angeles, Calif. — City Water & Power Comn., wrought steel pipe under P. A. W-836, and wrought steel nipples under P. A. W-837, to Petroleum Equipment Co., 2800 South Alameda St., at $12.20 per C ft. and $54.23 per C respectively.

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Thirteen Bids on Eight Types of Pavement in Mississippi

Between the low and the high of the thirteen bids submitted for paving with concrete 15 mi. of the Raymond-Utica highway in Mississippi was a difference of only 14 per cent. Bids were asked on eight types of pavement, but the lowest bid of all was for plain concrete, Bates type section, 9-6-9, 1:2:3 mix, submitted by the Lawrence Construction Co. of Jackson, Miss., $410,191.52, to whom the contract was awarded.

This project is one of several that are to be constructed in Hinds County, in which is the state capitol, and which has the highest assessed valuation in the state. This section is part of the 100 mi. program now under way. It will connect at Raymond with the paved road from Raymond to Jackson. Federal aid is not given this project, which is constructed wholly from county funds.

All materials are furnished by the contractor. Cement was quoted by the mills at $2.70 per bbl., f.o.b. any of the shipping points from Raymond to Utica. Local gravel from pit within 9 mi. of Utica via rail was quoted at 95c. per ton f.o.b. shipping points; sand from same source, 80c. per ton. The nearest competing gravel and sand were quoted at $1.25 and $1 per ton f.o.b. job.

The average haul from shipping points upon the railroad is 3½ mi. The maximum grade of the road to be constructed is 5.65 per cent, and upon the side roads from railroad to project 7 per cent.

As indicated by the close total bids, the unit prices for the large items are remarkably close. Common excavation varies between 30c. and 39c.; borrow excavation between 28c. and 35c. The concrete pavement low bid is $1.87, and the range is $1.83 to $2.17 (highest bidder for total job). The range on reinforcing steel is 4c. to 6c.; structural steel, 5½c. to 7c.

The lowest five and highest bidders, together with their unit prices, are as follows: (A) Lawrence Construction Co., Jackson; (B) Miller-Hutchinson Co., Taylorville, Ill.; (C) S. K. Jones Construction Co., Memphis, Tenn.; (D) Merrill Engineering Co., Jackson; (E) Langston Contracting Co., Orlando, Fla.; (F) R. G. Lassiter & Co., Raleigh, N. C.

	A	B	C	D	E	F
209 100-ft. sta. clearing and grubbing	$12.50	$15.00	$17.00	$10.00	$10.00	$6.00
1,000 cu.yd. solid rock excav	1.00	1.00	1.00	1.50	2.50	2.00
91,845 cu.yd. common excav	0.31	0.39	0.34½	0.30	0.32	0.33
16,459 cu.yd. borrow excav	0.31	0.35	0.34½	0.28	0.30	0.35
10,000 cu.yd. subgrade treatment (gravel to be used to furnish necessary 3-in. subbase for "Black Base")	....	....	....	1.50	....	....
169,826 lin.ft. 6x18 conc. curb (to be used with "Black Base")	....	....	....	0.30	....	....
169 826 sq.yd. 7-5-7 portland cement conc. base course	....	....	....	1.25	1.35	1.40
160,391 sq.yd. 4½ in. asphaltic conc. base course ("Black Base")	....	....	....	0.84	....	....
160 391 sq.yd. asphaltic conc., surface course	....	....	....	0.84	0.75	1.15
160,391 sq.yd. Warrenite-bitulithic pavement surface course	....	....	....	....	....	1.25
160 391 sq.yd. sheet asphalt binder and surface course	....	....	....	1.14	....	1.30
169,826 sq.yd. cement conc. pavement, plain (9-6-9 Bates type)	1.87	1.83	1.88	1.93	1.94	2.17
169,826 sq.yd. vibrolithic conc. pavement (1:2:4: mix, 9-6-9 Bates type section)	....	....	....	2.19	....	....
687 cu.yd. Class "A" conc. in culverts (1:2:4 mix)	19.00	20.50	21.00	22.00	21.00	23.00
846 cu.yd. Class "A" conc. in bridges (1:2:4 mix)	23.00	20.50	23.00	22.00	22.00	24.00
168,567 lb. reinforcement steel in culverts and bridges	0.04¼	.05	0.04¾	0.05	0.05	0.05
120,230 lb. structural steel (all 30 in. I-beams)	0.05½	0.06	0.06	0.05	0.07	0.07
893 lin.ft. conc. handrailing on bridges	2.50	2.50	2.50	2.50	3.50	3.00
245 lin.ft. 18 in. pipe culverts	2.25	2.75	2.25	2.00	2.50	2.25
577.5 lin.ft. 24 in. pipe culverts	3.50	4.00	3.25	2.75	3.50	3.50
2,000 lin.ft. untreated timber, foundation piling	0.80	0.80	0.85	0.75	0.50	1.00
8 miles sodding	100.00	200.00	100.00	90.00	150.00	100.00
379 100-ft. sta. fencing rebuilt	4.00	3.00	1.00	8.00	3.00	1.20
Working days	325	300	200	450	....	400
Total, less paving	$92,617	$102,337	$98,563	$94,683	$97,898	$100,779
Total conc. base, asphaltic conc	......	......	......	441,694	447,456	522,985
Total conc. base, Warrenite	......	......	......	......	......	539,024
Totals conc. base, sheet asphalt	......	......	......	489,811	......	547,044
Totals black base, asphaltic conc	......	......	......	414,048	......	......
Totals black base, Warrenite	......	......	......	......	......	......
Totals black base-sheet asphalt	......	......	......	426,880	......	......
Totals, conc. pavement	$410,192	$413,119	$417,836	$422,447	$427,360	$469,302
Totals, vibrolithic pavement	....	....	....	466,602	....	....

Engineering News-Record, Issue of December 8, 1927.

Wide Variation in Bids for a St. Joseph, Mo., Sewer

Twenty bids were submitted for the Brookdale-Petee relief sewer in St. Joseph, Mo., ranging from $462,149.94 to $765,946.15. The wide difference was probably due to hazardous construction which was variously estimated. The low bidder (A. A. Davis & Co., Kansas City) was awarded the contract.

The sewer to be constructed is 9,500 ft. long, extending from 19th St. at Lafayette St., running in a northeasterly direction and paralleling the Chicago, Burlington & Quincy R.R. to 26th St.; then north and east through the Brookdale residential section and the Moila Golf course to end at Frederick Ave. The distance paralleling the railroad, 2,747 ft., will have to be protected with steel sheet-piling to hold the railroad embankment. Also in this section there are two places, 1,000 ft. long in one place and 600 ft. long in another, where the new sewer replaces the present sewer. These two sections must be constructed in the same place as the present sewer which carries the flow of Patee Creek and the entire flow must be handled during construction. The size of the sewer varies from 13 ft. at the lower end to 8 ft. at the upper end and is what is known as the Louisville semi-elliptical section. The concrete varies from 2.45 cu.yd. with 552 ft. steel per linear foot for the 13-ft. section, to 0.9 cu.yd. concrete and 188 ft. steel per linear foot for the 8-ft. section.

There are three junction chambers from its beginning at 19th St. to the edge of the Moila Golf Course, a distance of about 7,000 ft., the new sewer either parallels or replaces the present Brookdale Main Sewer. All connections cut by the new sewer must be connected to it. The cut varies from 15 to 23 ft. in a material that varies from black loam to a heavy blue clay that is

(Concluded on page 294a)

UNIT PRICES Continued on page 294a

Hercules

ENGINES

POWER for ditching—more power for hoisting and still more power to move around—but even these demands do not affect the flow of steady Hercules Power.

The most difficult jobs on the schedules are adding to the good name of Hercules Engines. Hercules Engines add to the good name of any Hercules powered equipment.

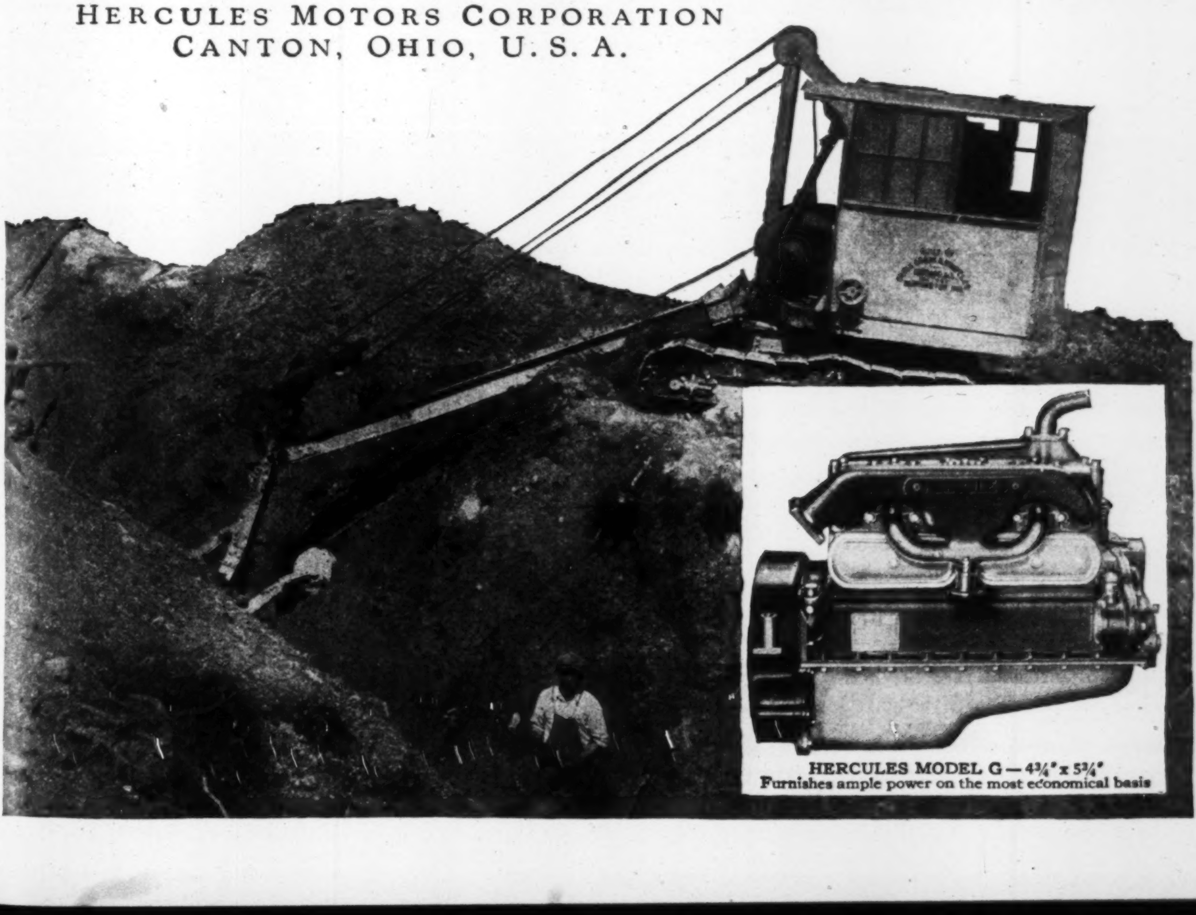
There is greatest rigidity in Hercules simplified design and precision manufacture. Rigidity means shock resistance—stamina—a power supply of greatest endurance.

Hercules power charts show more work per day, more days of service per year, and years and years of *extra* usefulness. The broad Hercules experience and the conscientious study of every commercial and industrial power need enables Hercules to apply the most enduring power for the greatest economy.

HERCULES MOTORS CORPORATION
CANTON, OHIO, U. S. A.

The ORTON

MODEL "V" DITCHER
TRAVELS AND WORKS BY
HERCULES POWER



HERCULES MODEL G — 4¾" x 5¾"
Furnishes ample power on the most economical basis

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

(Continued from page 294)

wet. The ground water averages about ten feet below the surface of the ground. The first 7,000 ft. of the sewer runs through an industrial and residential section of the City, the last 2,500 ft. being through a golf course and cultivated ground.

The construction of this sewer is necessitated by the fact that the present main sewer is inadequate along the sections to be replaced. The section from 19th St. along Mitchell Ave. to the river is either round or egg-shaped, constructed of either brick or concrete and is in fair condition. A contract has been let to The Gunite Construction Co., Kansas City, Missouri, for the repair of this sewer for a distance of 5,200 ft. at $6 per foot.

The new sewer extends entirely through the Brookdale section of the city and will have ample inlets to catch the flood waters from the paved areas as fast as they reach the sewer. The heavy rain in June 1925 caused considerable damage to this section of the city, one industrial firm suffered a loss amounting to $172,000. The heaviest rainfall on record shows 2.55 in. in 80 minutes on June 24, 1924, and 6.2 in. in 275 minutes on June 3, 1925. The maximum intensity of rainfall recorded was at the rate of 5 in. per hour for a five minute period; this total rain averaged 2.97 in. for sixty minutes. The run-off at the river end of this sewer is estimated at 3,000 cu.ft. per second, taking care of an area of 133 acres. Velocity in this sewer varies from 17 to 20.1 ft. per second. The open area north of the north end of the sewer is 50 acres of cultivated ground and pasture. As stated before, the area around the south end of the sewer is 60 to 70 per cent paved and roofed. The Weather Bureau in this city computes 146 working days as an average per year, exclusive of Sundays and holidays. The work is to be completed in 300 working days or approximately Oct. 1, 1928.

The contractor has started work, using a Northwest Clam Shell and Blaw-Knox steel forms. He expects to complete about 25 ft. of concrete per day with this crew and later on will add another outfit.

Materials used in this job are figured at the following prices: cement, f.o.b. cars, nearest side track to work $2.19 per bbl., net; crushed stone, $2.05 per ton f.o.b. cars, or $2.50 per ton delivered on the job; sand, 80c. per ton at the plant with approximately 40c. per ton haul, and 8c. per ton discount for cash; reinforcing steel, 4½c. per lb. delivered on the job.

The lowest eight and highest bidders, together with their unit prices, are as follows: (A) A. A. Davis Co., Kansas City; (B) The Whitmire Construction Co., North Kansas City; (C) Moss; (D) Floyd-Shoffner & Co.; (E) Dobson & Humphreys; (F) Torson; (G) Judson; (H) Reed & Wheelock; (I) Patterson.

PROJECT NO. 1	A	B	C	D	E	F	G	H	I
41,059 cu.yd. excav	$1.10	$1.42	$1.35	$1.70	$2.30	$1.35	$2.25	$1.00	$2.50
5,875,800 cu.yd. Class "B" conc	15.20	15.85	16.50	19.00	17.50	16.00	13.50	23.75	24.00
1,200,421 lb. steel reinforcement	0.04	0.04	0.046	0.04	0.373	0.06	0.04	0.05	0.05
9 standard curb inlets	65.00	62.30	135.00	75.00	30.00	50.0	75.00	60.00	40.00
9 standard multiple inlet units	50.00	148.00	165.00	50.00	100.00	135.00	60.00	130.00	100.00
7 side manholes, complete	200.00	119.00	50.00	116.00	100.00	100.00	100.00	150.00	200.00
2 back-water traps	50.00	180.00	45.00	166.00	75.00	50.00	75.00	200.00	30.00
20 lin.ft. 12 in. V.C. pipe	2.50	3.20	2.50	2.00	1.25	2.00	1.60	1.00	2.00
92 lin.ft. 18 in. V.C. pipe	3.00	4.40	3.50	3.00	1.75	3.00	2.40	2.00	2.50
48 lin.ft. 24 in. V.C. pipe	4.00	6.35	5.50	5.00	3.50	4.00	3.40	3.00	3.50
32 lin.ft. 60 in. reinf. conc. pipe	16.00	36.75	15.00	12.50	15.00	16.00	15.00	12.00	20.00
1,500 lin.ft. creosoted timber	0.90	1.00	1.50	1.25	1.25	1.00	2.00	1.50	1.50
5,000 ft. B.M. timber and sheeting	47.50	100.00	90.00	65.00	50.00	50.00	1.25	70.00	80.00
500 cu.yd. crushed stone	3.75	4.05	3.50	4.00	4.00	6.00	6.00	3.50	6.00
Total	$189,521	$208,512	$216,305	$236,882	$249,016	$229,702	$229,308	$248,872	$313,135
PROJECT NO. 2									
54,285 cu.yd. excav	$0.76	$1.01	$1.10	$1.00	$1.60	$1.00	$1.84	$0.80	$2.00
7,472.70 cu.yd. class "B" conc	15.20	16.00	16.50	17.00	13.40	15.00	13.50	23.00	22.00
1,413,644 lb. steel reinf	0.04	0.04	0.046	0.04	0.0377	0.06	0.04	0.05	0.05
19 standard curb inlets	65.00	62.30	135.00	75.00	30.00	50.00	75.00	60.00	40.00
16 standard multiple inlet units	50.00	148.00	165.00	50.00	100.00	130.00	50.00	130.00	100.00
1 type "A" inlet	50.00	38.00	35.00	50.00	40.00	60.00	100.00	200.00	60.00
12 side manholes	200.00	119.00	50.00	116.00	100.00	100.00	100.00	150.00	200.00
100 lin.ft. 12 in. V.C. pipe	2.50	3.20	2.50	2.00	1.25	2.00	1.60	1.00	2.00
164 lin.ft. 18 in. V.C. pipe	3.00	4.50	3.50	3.00	1.75	3.00	2.40	2.00	2.50
250 lin.ft. 24 in. V.C. pipe	4.00	6.50	5.50	5.00	3.50	4.00	3.40	3.00	3.50
1,500 lin.ft. creosoted timber	0.90	1.00	1.50	1.25	1.25	1.00	2.00	1.50	1.50
5,000 ft. B.M. timber and sheeting	47.50	100.00	90.00	65.00	50.00	50.00	125.00	70.00	80.00
500 cu.yd. crushed stone	3.75	4.05	3.50	4.00	4.00	6.00	6.00	3.50	6.00
Total	$221,077	$242,663	$260,530	$247,675	$249,107	$261,926	$268,865	$296,730	$355,606
PROJECT NO. 3									
11,160 cu.yd. excav	$0.40	$0.90	$1.25	$0.70	$1.30	$1.00	$1.20	$0.50	$2.50
1,904.4 cu.yd. Class "B" conc	15.20	18.80	16.50	15.00	23.20	15.00	13.50	23.00	24.00
377,244 lb. steel reinforcement	0.04	0.042	0.046	0.04	0.378	0.06	0.0425	0.05	0.05
2 standard curb inlets	65.00	62.30	135.00	75.00	30.00	50.00	75.00	60.00	30.00
4 standard multiple inlets	50.00	148.00	165.00	50.00	100.00	130.00	60.00	130.00	100.00
3 type "A" inlets	50.00	38.00	35.00	50.00	40.00	60.00	100.00	200.00	40.00
1 side manholes, complete	200.00	119.00	50.00	116.00	100.00	100.00	100.00	150.00	150.00
84 lin.ft. 18 in. V.C. pipe	3.00	4.60	2.50	3.00	1.75	3.00	2.40	2.00	2.50
16 lin.ft. 24 in. V.C. pipe	4.00	6.55	5.50	5.00	3.50	4.00	3.40	3.00	3.50
100 lin.ft. galv. iron drift fence	0.75	2.16	1.50	4.00	2.00	5.00	3.00	5.00	5.00
1,000 lin.ft. creosoted timber	0.90	1.00	1.50	1.25	1.25	1.00	2.00	1.50	1.50
3,000 ft. B.M. timber and sheeting left	47.50	100.00	90.00	65.00	50.00	50.00	125.00	70.00	80.00
250 cu.yd. crushed stone	3.75	4.05	3.50	4.00	4.00	6.00	6.00	3.50	6.00
Total	$51,552	$65,660	$66,904	$55,261	$76,433	$66,727	$60,355	$72,934	$97,204
Grand total	462,150	516,835	543,739	539,819	574,556	558,355	558,529	618,537	765,946
Combination bids	....	—20,673	—5,000	....	—20,000	....	—5,585	....	....
Net bid total	462,150	496,162	538,739	539,819	554,556	558,355	552,944	618,537	765,946

Engineering News-Record, Issue of December 8, 1927.

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Sewage treatment plant, New York, N. Y., Bd. Estimate and Apportionment authorized, $28,500,000.

Industrial museum, Chicago, Ill., South Park Comrs. having plans prepared, $5,000,000.

Hotel, St. Louis, Mo., Syndicate, c/o H. R. Weisels Co., Inc., making preliminary plans, $5,000,000.

Office, Winston-Salem, N. C., R. J. Reynolds Tobacco Co. havnig plans prepared, $4,000,000.

Warehouse, Chicago, Ill., McConnell Warehouse Co. plans, $3,000,000.

Dredging, Texas, U. S. Engineers Office, Galveston, plans, $2,668,100.

Sewers, Oklahoma City, Okla., voted bonds, $2,674,000.

Bridge, Cairo, Ill., Cairo & Kentucky Bridge Co. takes bids early in 1928, $2,500,000.

Docks, East Chicago, Ind., W. G. Hogan, Indianapolis, having preliminary plans prepared, $2,000,000.

Office, New York, N. Y., Realty Trust Co., having plans prepared, $1,750,000.

High school, Oklahoma City, Okla., voted bonds, $1,700,000.

College, Hamilton, Ont., McMaster University Board having plans prepared, $1,500,000.

Apartment, New York, N. Y., Ellbar Realty Corp. plans, $1,200,000.

Lighting system, Oakland, Calif., City plans, $1,000,000 or more.

Waterworks, Evansville, Ind., takes bids about Dec. 10, $1,000,000.

Theatre, store and office, Worcester, Mass., Keith-Albee Exchange, New York City, having plans prepared, $1,000,000 or more.

Depot, Des Moines, Ia., Chicago, Rock Island & Pacific R.R. Co., having preliminary plans prepared, $1,000,000.

Apartment, St. Louis, Mo., J. R. Fleming purchased site, and plant, $1,000,000.

Bids Desired

Schools, Milwaukee, Wis., Dec. 22, by Bd. School Directors, $1,250,000.

Bids Received

Subway, Long Island City, N. Y., Bd., Transportation from Atwell, Gustin & Morris Co., New York City, $5,198,000.

Bridge, Cincinnati, O., G. F. Schlesinger, Columbus, from Folwell Ahlskog Co., Chicago, Ill., $1,851,829.

Contracts Awarded

Apartments, New York City, N. Y., Corporation, c/o J. H. Barr, pres., owner and contractor, will build, $2,500,000.

High school, Cleveland, Ohio, Bd. Educ. to W. G. Schirmer Co., $1,294,907.

Store and dance hall, New York, N. Y., Bway. Block Corp. to Cunningham & Foley. Archts. est. $1,100,000.

Loft and stores, New York, N. Y., Two Hundred Twenty-Nine East 79th Street Corp. will build by separate contracts, $1,000,000.

Office, Toronto, Ont., Yolles & Rotenberg will build by day labor. Archts. est. $1,000,000.

Apartment, New York, N. Y., I. Polstein & Son will build by separate contracts, to exceed $1,000,000.

Apartments, New York, N. Y., Corporation, c/o B. Noonan, will build by separate contracts, $1,000,000.

News of the Week

Waterworks

Proposed Work

N. J., Mount Ephraim—See "Sewers."

Mich., Detroit—Dept. Water Supply made plans Sect. 5 water supply tunnel, 6,500 ft. 14 ft. diam. monolithic concrete cylinder, supplying water works station west side city. G. H. Fenkell, 176 East Jefferson Ave., engr.

Mich., Royal Oak (Ind. br. Detroit) — Making plans 1 story, brick and steel building for water works booster station, incl. electrically operated centrifugal booster pump, in connection with Detroit water supply. $20,000. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Ia., Audubon—Making preliminary plans water purification plant, etc. $35,000.

Ia., Carlisle—Making preliminary plans complete waterworks. $27,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs.

Ia., Webster City—See "Dam."

Kan., Cunningham—Making preliminary plans waterworks and distributing system. $50,000. F. E. Devlin, 614 Bitting Bldg., Wichita, engr.

Kan., Iola—Making surveys and plans new dam over Neosho River, also water softening and filtration plant, etc. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs.

Mo., Hamilton—Defeated $30,000 bonds, extending mains and new pumping unit. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, engrs. Noted Oct. 13.

Tex., Big Lake—City, c/o J. M. Moore, mayor, making plans extending waterworks and softening plant, also new sewerage system and disposal plant. $50,000. Koch & Fowler, 801 Central Bank Bldg., Dallas, engrs. Noted Apr. 28.

Tex., Brownsville—Delta Development Co., c/o E. C. Couch, Weslaco, making plans and soon takes bids waterworks, incl. distributing system, wells and pumping unit, here. $30,000. Private plans.

Tex., Dickinson — Dickinson Ice & Fuel Co. plans 50,000 gal. tank on 100 ft. tower, 6 in. distributing system, etc. Will probably purchase materials and build by day labor. $15,000. Private plans.

Tex., Frankston—City, c/o M. E. Cook, mayor, making plans complete waterworks, sewerage system and disposal plant. $75,000. Koch & Fowler, 801 Central Bank Bldg., Dallas, engrs.

Okla., Fairfax—Defeated $15,000 bonds, extending mains in Donelson Addition. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Sept. 1.

Okla., Oklahoma City—Voted $900,000 bonds, 42,000 ft. 54 in. c.i. conduit from lake to here; and $100,000 bonds, extending mains in various streets. B. M. Hart, City Hall, engr. Noted Sept. 15.

Okla., Vinita—Making preliminary plans new basins, enlarge filter plant. $30,000. Engineer not selected.

Nev., Winnemucca—Plans waterworks. To exceed $25,000.

> *THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.*
>
> *Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.*

California—Monte Vista Co. Water Dist., Ontario, making plans water supply serving territory between Ontario, San Bernardino Co. and Pomona, Los Angeles Co. J. E. Sellers, San Fernando Bldg., Los Angeles, engr.

Calif., Los Angeles—See "Dams."

Calif., San Bernardino—San Bernardino Co. Water Works Dist. 2, making plans pipe lines, reservoirs, etc., here. $160,000 bond election soon for same. J. E. Sellers, San Fernando Bldg., Los Angeles, engr.

Calif., Tracy—Plans additional reservoir or sump with 300,000 gal. capacity, fire hydrants, drilling new well, also 100,000 gal. steel standpipe, etc., in connection with waterworks. E. T. Bartlett, Amer. Bank Bldg., engr.

Ont., Merritton—Making plans extending 2 mi. 6 and 8 in. c.i. mains, valves and hydrants in Mount Pleasant section, also 8 in. mains, and branches into district beyond Old Welland Canal. $30,000. E. H. Darling, 72 James St. N., Hamilton, engr.

See proposal advertising on page 120

Bids Desired

Mass., Woburn — See "Contracts Awarded."

N. Y., St. George — Dec. 20, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Ocean Terrace, Little Clove Rd., Targee St., Seaside, Slater and Victory Blvds., McLean, Ontario and Sea Aves., here.

O., Cleveland — Dec. 21, by Bd. Comrs. Cuyahoga Co., 5,300 ft. 12 in. main in Broadview Rd. F. Williams, Court House, engr.

Wis., Milwaukee—Dec. 22, by Dept. Pub. Wks., R. E. Stoelting, comr., suction, discharge, and miscellaneous piping for turbo centrifugal pump 5 at Riverside Pumping Station. $8,000.

Tex., Boerne—Dec. 23, by City Comrs., R. L. Hickman, mayor, constructing waterworks, incl. water well, distributing system, pumping unit, etc. $60,000. Terrell Bartlett Engineers, Inc., 612 Calcasieu Bldg., San Antonio, engrs.

Calif., Artesia — Barco Investment Co., 602 Builders Exch. Bldg., Los Angeles, taking bids pumping plant and pressure water system for 60 acre sub-division, approximately 7,000 ft. 3 and 4 in. steel pipe, pumping plant, pressure tank, etc.

Calif., Compton—Jan. 3, by M. Beatty, clk. Los Angeles Co., waterworks in Willowbrook Tract, Dist. 10, near here, incl. pump house, etc.

Contracts Awarded

Mass., Woburn—Dept. Pub. Wks., Boston, will lay 12 in. water mains Webster St. $15,000. Private plans. Noted Dec. 8.

N. Y., Bethlehem (mail Glenmont)—Bd. Water Comrs., Water Dist. 1, Firemen's Hall, Delmar, installing water supply system, here, to Keyport Constr. Co., Keyport, N. J. Noted Nov. 10.

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Avenues J, N, R, V, X, Y and Z, etc., here, to Paladino Contg. Co., 13th Ave. and 59th St., $17,945. Noted Nov. 24.

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NO CAULKING

Waterworks (Continued)

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 28th St., here, to Wataga Contg. Co., 308 Lenox Ave., New York City. $5,940. Noted Nov. 24.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Bronxdale Ave., etc., to J. V. Timoney Constr. Co., 320 East 201st St., $7,376; in Riverdale Ave., to Knight & DeMicco, Inc., 448 East Tremont Ave., $5,940; and in East Tremont Ave., to Norton Eng. & Contg. Co., 510 West 149th St., $138,236. Grand total $151,552. Noted Nov. 24.

N. Y., St. George—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Bryant Ave., etc., here, to Knight & DeMicco, Inc., 448 East Tremont Ave., New York City, $19,550. Noted Nov. 24.

Md., Baltimore—Bd. Awards, valves and hydrants to Bureau Water Supply, to A. P. Smith Co., 275 North Arlington Ave., East Orange, N. J., $58,087; and c.i. pipe and fittings, to R. D. Wood & Co., 400 Chestnut St., Phila., Pa., $137,231.

N. C., Dunn—City, G. L. Canady, mayor, enlarging waterworks, incl. coagulating basin, 2 new filters and 2 new pumps, to J. A. Beaman Constr. Co., Lawyers Bldg., Raleigh, $23,115. Noted Nov. 17.

Neb., Callaway—Deep well, to J. F. Sears, Callaway; 13,400 ft. c.i. pipe, to Natl. Cast Iron Pipe Co., 122 South Michigan Ave., Chicago, Ill.; laying above pipe, to J. M. Savidge, Callaway; also valves and boxes, to Interstate Mchy. & Supply Co., 1006 Douglas St., Omaha, Neb. Engrs. est. $25,000. Noted Nov. 3.

Tex., Lufkin — Improving waterworks, incl. steel tower on concrete foundation, to Chicago Iron & Bridge Wks., Old Colony Bldg., Chicago, Ill., approximately $25,000. Noted Aug. 25.

Tex., Mexia—Waterworks improvements, drilling well, constructing 125,000 gal. underground concrete storage reservoir, pumphouse, etc., to F. Fielding, Mexia, approximately $25,000.

Okla., Crescent—Extending waterworks, to F. L. Brown, 410 East Logan St., Guthrie, $31,326. Engrs. est. $30,000. Noted Sept. 22.

Okla., Ponca City — Waterworks extensions, to Earl W. Baker Co., 408 Medical Arts Bldg., Oklahoma City, $69,681.

Sewers

Proposed Work

N. Y., New York—Bd. Estimate & Apportionment, City Hall, authorized 180 m.g.d. sewage treatment plant on Wards Island, to treat sewage of Manhattan and Brooklyn Boros, together with intercepting sewers and tunnels. $28,500,000. G. W. Fuller, 170 Bway., consult. engr. Refer to Dec. 8 issue, Page 935 for detail.

N. J., Mount Ephraim—Plans sewerage system, two pumping stations, and reservoir. $300,000.

O., Barberton—Plans sewage treatment plant. $200,000. H. W. Alcorn, city engr.

O., Canton—City Service Director soon takes bids sewer in Spring St. N. E., 16th St. N. E., 17th St. N. E., Esther St. N. E., 18th, 20th and 19th Sts. $40,000-$50,000. W. E. Sarver, City Hall, engr.

O., Chagrin Falls — Plans repairing sewage disposal plant, etc. P. Elwell, 19014 Nottingham Rd., Cleveland, engr.

O., Sebring — Plans rebuilding waterworks. $100,000. W. D. Sponseller, Sebring, engr.

Ind., Anderson—Takes bids in spring, 1½ mi. Loumandale main sewer. $35,000. M. H. Donney, engr. Noted Oct. 20.

Mich., Farmington—Oakland Co. (Pontiac) made plans Farmington Storm Sewer Drain, 12 in. to 7 ft. diam. concrete in tunnel, with branches on Grand River Ave., etc. $900,000. A. W. Spencer, Pontiac, Oakland Co. drain comr.

Ia., Washington — Making preliminary plans storm sewer extensions to Southwest Dist., $150,000; also disposal plant, $50,000. Howard R. Green Eng. Co., Beaver Bldg., Cedar Rapids, engrs. Noted Nov. 24.

Tex., Big Lake—See "Waterworks."

Tex., Frankston—See "Waterworks."

Okla., Apache—Making plans sewerage system. $40,000. Long & Co., Colcord Bldg., Oklahoma City, engrs.

Okla., Chickasha—Plans sewer in Dist. 60. $25,000. R. O. Bradley, Chickasha, engr.

Okla., Lamont — Making plans 4 mi. sewerage system and disposal plant. $30,000. Engineer not announced.

Okla., Oklahoma City—Voted $2,424,000 bonds, storm sewers, and $250,000 bonds, sanitary sewers in various streets. B. M. Hart, City Hall, engr. Noted Sept. 22.

Okla., Ponca City — Made preliminary plans sewers in Hampton Heights Addition. $30,000. H. W. Crawford, Ponca City, engr.

Calif., Escondido—Making surveys sewerage system. To exceed $25,000. Black & Veatch, 307 South Hill St., Los Angeles, engrs.

Calif., Hayward—Voted $25,000 bonds, extending sewers in various sections city. J. B. Holly, city engr.

Calif., San Jose—Made plans 6,913 ft. 4- to 10-in. vitr. sewer in portions Julian St., Cinnabar and Morrison Aves. W. Popp, city engr.

Ont., Orangeville—Made plans 4 mi. 6 in. and up vitr. tile sewers in various streets, $53,000. U. V. Christie, Court House, engr. Noted July 14.

Bids Desired

N. Y., Mamaroneck—Dec. 20, by Bd. Village Trustees, Halstead Ave. sewerage system, contrs. 11, 12 and 13. R. H. Stevens, Hillside Arcade, Larchmont, sanitary engr.; adv. E. N.-R. Dec. 15. Noted Nov. 24.

N. J., Hillside—Dec. 21, by Twp. Com., Central Grammar School, Coe Ave., completing Sect. 1, sanitary sewerage system, Luster & Luster, 286 North Broad St., Elizabeth, twp. engr. A. Potter, 50 Church St., New York City, consult. engr.; adv. E. N.-R. Dec. 15.

D. C., Wash. — Dec. 20, by District Comrs., District Bldg., 16,110 lin.ft. 10- to 24-in. sewer in various streets.

O., Cleveland—Dec. 21, by Bd. Comrs. Cuyahoga Co., 3,800 ft. 8- to 24-in. vitr. clay sewer and 4,600 ft. 6- to 8-in. c.i. water mains in Worton Blvd. F. Williams, Court House, engr. Noted Nov. 3.

O., Columbus—Dec. 20, by W. H. Duffy, dir. Serv., 16,630 ft. 8 and 10 in. vitr. clay sewer in Whitehead Rd., $35,700; 5,415 ft. 6 and 8 in. in Hamilton Ave., $11,300; and 6,000 ft. 8 in. in alley west of Dresden St., $13,000. R. H. Simpson, City Hall, engr.

Mich., Muskegon Heights — Dec. 19, by City Clerk, 44,292 ft. 6- to 12-in. vitr. clay, and 660 ft. 6 in. c.i. sewers in northwest section city. $35,000. C. A. Gamble, City Hall, engr.

Calif., Los Angeles—Jan. 3, by Supervs. Los Angeles Co., 8.37 mi. sewer in (Downey) Myrtle St., etc., Impvt. 640. $110,275. W. F. Foster, Hall of Records, engr. Noted Nov. 24.

Calif., Long Beach—Taking bids 139,741 lin.ft. 6- to 33-in. vitr., 565 lin.ft. 36 and 42 in. rein.-con., and 4,163 lin.ft. 24 and 36 in. c.i. sewer, etc. in industrial section city. To exceed $650,000. Noted Nov. 24.

Calif., Marysville—Taking bids 21.4 ft. sewer sump, 16 ft. wide, 22 ft. deep, etc. at Yuba Sq. P. Divver, city engr.

Calif., Los Angeles — Jan. 31, by Bd. Supervs. Los Angeles Co., 40,000 ft. sewers in various streets. $126,775.

Contracts Awarded

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, to W. D. Ficken, 411 85th St., sewers in Flatlands Ave. $18,447, and Conklin Ave. $3,714; to Peconi Contg. Co., 152 East 4th St., East 94th St., $17,481; to S. Guerriero, 1014 66th St., Bay 32nd St., $5,543; to Catapano & Ambrosio, 240 Elton St., East 89th St., $3,611; to Del Mel Contg. Co., 7624 15th Ave., 62nd St. $3,510, Lefferts Ave. $3,001, East 3rd St. $2,947, and Berriman St. $1,413; to R. Iovino, 678 Glenmore Ave., Warwick St., $2,150. Grand total $61,817. Noted Nov. 17.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in 17th Ave., to J. H. Johnson, 37 Britton Ave., Elmhurst, $10,488; 159th and Liberty Aves., to E. J. Kelly, Jr., Flushing. $2,445 and $446 respectively. Grand total $13,379. Noted Nov. 17.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in 219th St., to Kew Constr. Co., Mineola, $7,636; Westchester Ave., to J. Gallo, 169-10 State St., Flushing, $273,737; and 50th Ave., to Kennedy & Smith, Bradford St., Flushing, $56,989. Grand total $338,362. Noted Nov. 24.

N. Y., Rochester—North St. Paul Blvd. Sewer Comn., 209 Powers Bldg., sewers in Addition 1, North St. Paul Blvd. Sewer Dist., to A. Petrossi, 205 Elwood Bldg., $16,750.

La., Shreveport—For South Highlands and Jewella Trunk Sewer, 32,000 ft. concrete pipe, to Meriwether Supply Co., Shreveport, $32,674.

O., Columbus—W. H. Duffy, dir. Service, 6,164 ft. 12- to 96-in. sewer in Denune Ave., Weber Rd. and Bremen St., in Linden, to Bucanally Constr. Co., Union Trust Bldg., Pittsburgh, Pa., $101,522. Noted Nov. 17.

Ind., Elkhart—Sewer in North Main Dist., to F. J. Miller, c/o City Clerk, $25,570.

Mich., Detroit—J. W. Reid, Dept. Pub. Wks., Detroit River Interceptor Sect. 6, in Woodbridge, St. Antoine and Franklin Sts., to S. A. Healy, 1007 Amer. State Bank Bldg., $433,400. Noted Dec. 1.

Mich., Pontiac—Constructing East Side Drain, Shirley Ave., approximately 1,500 ft. 7 in. diam., concrete in tunnel, to J. Brogan & Son, Pontiac, $45,000.

Arkansas—State Hy. Dept., Little Rock, 136 ft. rein.-con. bridge, on Highway 70, Sect. 5, Pike Co., to Maxwell Constr. Co., Columbus, Kan., $12,987; and 350 ft. rein.-con. bridge, on Highway 6, Sect. 6, Hot Springs Co., to C. H. Atkinson Paving Co., Chillicothe, Mo., $34,295.

Tex., Alamo Heights — Alamo Heights, Inc., c/o R. O'Grady, mayor, San Antonio, approximately 10 mi. 4- to 18-in. concrete sewers and laterals in various streets, to Colglazier & Hoff, 300 Seguin Rd., San Antonio, approximately $150,000 (cost plus contract). Noted June 23.

Okla., Crescent—A. B. Powell, city clk., sanitary sewerage system, incl. disposal plant, to F. L. Brown, 410 East Logan St., Guthrie, $29,471. Engrs. est. $35,000. Noted Oct. 27.

Ont., Toronto — York Twp., supplying 2,000 lin.ft. 2 x 3 ft. egg shaped pipe for sewer in Humbercrest Blvd. at Black Creek, to J. E. Russell Co. Ltd., Reford Bldg., engrs. total est. $33,000; 1,000 g.p.m. sludge pump, to Smart Turner Machine Co. Ltd., 191 Barton Ave. E., Hamilton, $2,262, and 950 cu.ft. per min. rotary blower with motor and controls, to Francis Hankin Co. Ltd., 386 King St. W., $3,570, both for Rockcliffe Blvd. sewage disposal plant; also 3,000 sq.ft. sewage disposal sludge beds, to F. B. Goedike, engr., 40 Jarvis St., to be constructed by day labor, $25,000. Noted Nov. 24.

Waste Disposal

Proposed Work

N. J., Atlantic City—City Comn. plans incinerator. $150,000.

Contracts Awarded

Mich., Detroit — Dept. Pub. Wks., City Hall, 50 x 200 ft. garbage transfer station, rein.-con., and 1 story concrete garage, to W. H. Mueller, 2111 Woodward Ave. $67,980. Noted Oct. 27 under "Buildings—Industrial."

Bridges

Proposed Work

N. H., Livermore Falls (mail Plymouth)—Boston & Maine R.R. Co., W. J. Backes, ch. engr., North Sta., Boston, Mass., plans replacing bridge with structural steel bridge, 150 tons steel, here. $150,000.

Virginia—Newport News-Norfolk Bridge Co., c/o C. M. Ward, pres., 2314 Grove Ave., Richmond, plans 4.8 mi. bridge over Hampton Roads between Newport News and Norfolk, incl. 9,000 ft. concrete trestle, 12,240 ft. steel superstructure, suspension cantilever with one 740 ft. and two 370 ft. spans, 152 ft. high and 27 ft. roadway. Robinson & Steinman, 25 Church St., New York City, consult. engrs.

Michigan and Wisconsin—Menominee Co. (Menominee), Mich., and Marinette Co. (Marinette), Wis., making plans and take bids in early spring, 850 ft. span steel deck cantilever type inter-state bridge, 40 ft. roadway, and two 6 ft. sidewalks over Menominee River between Menominee Co., Mich., and Marinette Co., Wis. $525,000. C. A. Melick, New State Office Bldg., Lansing, Mich., bridge engr.

Mich., Grand Rapids—Making plans 200 ft. rein.-con. and steel viaduct, 54 ft., with 38 ft. roadway and two 6 ft. sidewalks over Pennsylvania, Michigan Central & Pere Marquette Ry. tracks, on Wealthy St. $335,000. C. W. Darling, city engr.

Mich., Lansing—Making plans 900 ft. multispan rein.-con. viaduct, 40 ft. over Grand River and Grand Trunk Ry. tracks, at Logan St. $400,000. E. G. Eddy, city engr.

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1—What is *High-Early-Strength* Universal Concrete?	Concrete with a 3-*day* strength equal to the 28-*day* strength of ordinary concrete.
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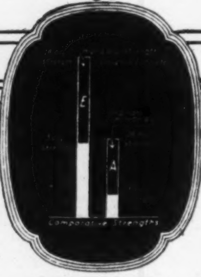
5—Is its use restricted to certain kinds of jobs?	No. Because it may be made as workable as desired, *High-Early-Strength* Universal Concrete is used for any and all kinds of concrete work.
6—Has *High-Early-Strength* Universal Concrete been fully tested?	Yes. Thousands of laboratory tests, years of experiment and hundreds of actual jobs prove the value of *High-Early-Strength* Universal Concrete.
7—What other advantages does *High-Early-Strength* Universal Concrete offer?	It is unnecessary to stock extra brand of material as *High-Early-Strength* concrete is obtained with the *usual* materials, *usual* labor, *usual* equipment and the same quality Universal cement as used for ordinary construction.
8—Where can I get detailed information on *High-Early-Strength* Universal Concrete?	Full details for use on any concrete work will be sent promptly on receipt of the coupon below.



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Bridges (Continued)

Ill., Cairo — Cairo & Kentucky Bridge Co., c/o Cairo Assn. of Commerce, takes bids early in 1928, rein.-con. and steel bridge over Ohio River. $2,500,000.

Ia., Boone—Chicago & Northwestern Ry. Co., W. J. Towne, ch. engr., Chicago, Ill., making preliminary plans concrete and steel bridge over Des Moines River, here. $25,000.

Tex., San Antonio—Soon takes bids 1 span 70 ft. bridge, 45 ft., on Arsenal St., $32,000; also making plans steel and rein.-con. bridge, on South Alamo St. $40,000, and 2 steel and concrete bridges, 1 on Johnson St. $35,000, and other Guenther St. $40,000, all foregoing over San Antonio River. S. F. Crecelius, 201 Torcido Dr., engr. Noted Oct. 27.

Okla., Oklahoma City — Voted $525,000 bonds, 2 bridges across North Canadian River. M. Peshek, city clk.

Okla., Shawnee—See "Unclassified."

Ore., Portland — Takes bids latter part January, new bridge over Oregon-Washington R.R. & Navigation Co. tracks, near Columbia Bldg. $109,283. O. Laurgard, city engr.

Calif., Los Angeles—Plans bridge over Los Angeles River, on Western Ave. To exceed $25,000. J. C. Shaw, City Hall, engr.

Calif., Riverbank — San Joaquin Co. (Stockton) and Stanislaus Co. (Modesto), plan 340 ft. steel bridge to have 170 ft. center span over Stanislaus River, here. $35,000. F. E. Smith, Stockton, co. surv. former, and J. H. Hoskins, Modesto, co. surv. latter counties.

Calif., Victorville—San Bernardino Co. (San Bernardino) making plans 230 ft. span steel arch bridge over Mojave River, 20 ft. roadway, here. H. L. Way, San Bernardino, co. surv.

Ont., Lambton Mills—Toronto & York Roads Comn., York Twp., Toronto, made plans and soon takes bids 350 ft. concrete high level bridge over Humber River, on Dundas St., here. $375,000. H. C. Rose, 57 Adelaide St. E., Toronto, engr.

Ont., Windsor — Plans new concrete bridge over Canadian Pacific R.R. tracks, on Sandwich St. $60,000. M. E. Brian, City Hall, engr.

Bids Desired

N. Y., St. George — Dec. 21, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bridge over Arthur Kill Rd., at west end Gifford's Lane; grading and steel guard curbing Trossach Rd.; and temporary storm sewer in Hylan Blvd.

New Jersey—Dec. 28, by State Hy. Comn. Trenton, rein.-con. viaduct over tracks Central R.R. of New Jersey, Delaware, Lackawanna & Western R.R. and Rockaway River, at M.P. 38.4, Route 5, Sect. 19; also reconstructing bridge on M.P. 40.5, Route 5, Sect. 19, across tracks Delaware, Lackawanna & Western R.R., Morris Co. A. L. Grover, ch. clk.; adv. E. N.-R. Dec. 15.

New Jersey—See "Streets and Roads."

Md., Baltimore—Dec. 21, by Bd. Awards, 119 ft. span rein.-con. arch bridge over Herring Run, on Mannasota Ave. N. L. Smith, City Hall, highways engr.

Florida—Jan 10, by State Roads Dept., Tallahassee, F. A. Hathawa, chn., two concrete bridges and overpass on F.A. Project 55-B, Rd. 14, Alachua Co.; four standard creosoted timber bridges on Project 677-D, Rd. 13, Levy Co.; six concrete bridges on Project 710-B, Rd. 17, Hillsboro Co.; and overpass on Project 764-B, Rd. 50, Suwannee Co. J. L. Cresap, highway engr.

Illinois — Dec. 21, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, three 10 and three 20 ft. span rein.-con. slab bridge and 2 box culverts on Route 51, Sect. 104-B Will Co., three 50 ft. span rein.-con. girder bridge on Route 56, Sect. 561-B Du Page Co., two 30 ft. span concrete girder bridges on Route 64, Sect. 126-B Kane Co., two 20 ft. rein.-con. slab bridges, also one 28 ft. and one 80 ft. rein.-con. substructure on Route 122, Sect. 128-B McLean and Tazewell Counties, one 80 ft. steel superstructure on Route 122, Sect. 128-C Tazewell Co., one 14 ft. and one 16 ft. rein.-con. slab bridge and two 40 ft., one 50 ft. and two 35 ft. rein.-con. girder bridges on Route 131, Sect. 108-B, also three 40 ft. span rein.-con. girder bridge on Route 131, Sect. 109-B, all Cumberland Co. F. T. Sheets, highway engr.

California—Jan. 3, by State Hy. Dept., Sacramento, two 30 ft. span rein.-con. girder bridge over Aliso Creek approximately 8 mi. north of San Juan Capistrano, also widening 40 ft. roadway on existing two 15 ft. span rein.-con. girder bridge, approximately 2 mi. south of Tustin, both Orange Co. R. M. Morton, Strub Bldg., Sacramento, engr. Noted Nov. 3.

Bids Received

O., Cincinnati — G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, 8th St. viaduct, ¾ mi. long, rein.-con. and steel, on Ohio River Rd., here, from Folwell-Ahlskog Co., 323 North Michigan Ave., Chicago, Ill., $1,851,829. Engrs. est. $2,213,956. Noted Nov. 24.

Contracts Awarded

N. J., Jersey City — State Hy. Comn., Trenton, bridges and other structures of steel, masonry or rein.-con. on Sect. 4-A, known as Highway Route 1 (1927) between Larch and point near Charlotte Aves., Hudson Co., Contr. 9, to Clements Constr. Co., 101 Park Ave., New York City, $469,916. Noted Nov. 17.

Va., Portsmouth — Portsmouth-Nansemond Bridge Corp., Norfolk, general contract bridge over Nansemond River, north of here, to Atlantic Bridge Co., Greensboro, N. C. Engrs. est. $425,000.

Alabama—See "Streets and Roads."

Miss., Merrill—George County Bridge Co., Inc., c/o J. C. Dorsett, pres., rein.-con. and steel toll bridge over Pascagoula River, to Austin Bridge Co., 1813 Clarence St., Dallas, Tex. Engrs. est. $125,000.

Michigan—E. L. Cowgill, resident engr., Plymouth, Trunk Line Bridge 1 of 50-12-2, 50 ft. span, steel deck girder type, 30 ft. roadway, Macomb Co., for State Hy. Dept., Lansing, to T. E. Currie Co., 909 Transportation Bldg., Detroit, $24,701; furnishing steel for same, to Amer. Bridge Co., 1328 Buhl Bldg., Detroit, $3,591. Noted Oct. 13.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridges on Route 116, Sects. 113-B and 114-B, Livingston Co., to Indiana Road Paving Co., Rochester, Ind., $18,963 and $7,049 respectively; on Route 142, Sect. 116-B, Hamilton Co., to Watt Constr. Co., Winchester, $33,614; on Route 81, Sect. 102-B, Henry Co., to G. C. Fairclo, Princeton, $14,330; on Route 156, Sect. 102-B, Monroe Co., to P. & G. Constr. Co., Mt. Carmel, $18,179, on Route 72, Sect. 128-B, Kane and De Kalb Counties, to Button Bros., Hebron, $16,185; and on Route 7, Sect. 4-B-1, Henry Co., to Frandsden Constr. Co., Chicago, $11,749. Grand total $120,069. Noted Oct. 20.

Kan., Oakley—Logan Co., to Bliss & Bliss, Mankato, four 30 ft., I-beam span bridge $8,351, five 30 ft. I-beam span bridge $8,916, and one 30 ft. I-beam span bridge $3,998, all on Project 375-D. Grand total $21,265.

Kan., Ottawa—Franklin Co., one 80 ft., steel truss span bridge on Project 375-D, to Pioneer Constr. Co., 270 Glover Bldg., Kansas City, Mo., $9,388.

South Dakota—State Hy. Comn., Pierre **(F.A.P. means Federal Aid Project and S.P. State Project)**, 152 ft. span bridge on F.A.P. 219-B, Walworth Co. and 40 ft. span bridge on F.A.P. 228-A, Potter Co., to M. A. Stump, Mobridge, $12,443 and $3,249 respectively; 45 ft. span bridge on S.P. 103, Hand Co., to C. M. Fassett, Brookings, $2,725; 330 ft. span bridge on S.P. 153, Jones Co. and 32 ft. span bridge on S.P. 143, Sully Co., $13,058 and $3,003 respectively; also 50 ft. span bridge on S.P. 149, Douglas Co., to W. A. Barnhart, Salem, $2,895. Grand total $37,373. Noted Nov. 10 and 17.

Okla., Edmond—Oklahoma Co. (Oklahoma City), 4 span 118 ft. rein.-con. bridge, here, to E. E. Hardy, Edmond $27,445. Engrs. est. $29,400.

Oregon—State Hy. Comn., Salem, bridges over Ash Creek and Luckiamute River, Polk Co., to O. N. Pierce, 912 East 10th St. N., Portland, $36,593.

Dams

Proposed Work

Mich., Rochester—Millington Land Co., 1st Natl. Bank Bldg., Detroit, making plans 500 ft. real estate development dam, 15 ft. high, incl earth embankment with rein.-con. wall and spillway, here. $25,000. McGaughan & Ransom, Pontiac, engrs.

Ia., Webster City—Making plans 100 ft. concrete dam across Boone River near White Fox Road Bridge, incl. reservoir and power plant equipment. $50,000. G. J. Long, Webster City, engr.

Calif., Los Angeles—Made plans Thompson Creek Earth-fill dam on Thompson Creek, 30,000 cu.yd. earth fill, 3,200 cu.yd. excav., 825 cu.yd. rein.-con. and 115 cu.yd. plain concrete. E. C. Eaton, 202 North Bway., engr.

Railways

Proposed Work

Iowa—See "Unclassified under Burlington, Ia."

Missouri—Missouri Pacific R.R. Co., E. A. Hadley, ch. engr., Ry. Exch. Bldg., St. Louis, takes bids early in 1928, approximately 28.78 mi. second track between St Louis and Jefferson City.

Oklahoma—Kansas, Oklahoma & Gulf Ry. Co., Muskogee, C. Kaighn, ch. engr., making preliminary plans 2 mi. additional siding for freight use near Allen. $50,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Miss., Biloxi—City and River & Harbor Bd. soon take bids dredging 12 ft. channel 150 ft. wide from Mississippi River to Back Bay west of Deer Island. $85,000. T. H. Emerson, dist. engr.

Ia., Centerville—Decatur Co. takes bids about Apr. 1, 4.13 mi. ditch in Grand River D. D., 340,000 cu.yd. excav. $110,000. Noted Nov. 24.

Ark., Morrilton—Levee Dist. 1 making preliminary plans approximately 100,000 cu.yd. levee patch work, Conway Co. $25,000. S. M. Davies, Morrilton, engr.

Ark., Piggott—Subsidiary D. D. 12 (Big Slough) of St. Francis D. D. of Clay and Greene Counties, making preliminary plans approximately 18 mi. clean out work, etc.

Ark., Pine Bluff—Harding Lake D. D., c/o R. H. Williams, chn., takes bids in spring, levee and drainage ditch from Harding Lake to Bayou Bartholomew. $350,000. E. Hale & G. B. Smith, Natl. Bank Bldg., and E. B. Reynolds, Engram Bldg., Pine Bluff, engrs. Noted June 16.

Tex., San Antonio—Making plans cut-off on San Antonio River north of Alamo St. in vicinity Guenther St., incl. excavating channel, etc., $75,000; also great bend cut-off from north of Commerce St. to Dolorosa Ave., incl. excavating for new channel, concreting same, etc. $175,000. S. F. Crecelius, 201 Torcido Dr., engr.

Okla., Oklahoma City — Voted $25,000 bonds, flood control. B. M. Hart, City Hall, engr.

Calif., Benicia — Benicia Reclamation Dist. making plans 2,000 to 3,000 ft. 30- to 56-in. storm drainage system, etc. $200,000. F. A. Steiger, Courthouse, Fairfield, engr.

Calif., San Diego—Voted $650,000 bonds, airport, of which $550,000 will be used dredging bay and reclaiming 105 acres tide lands, and $100,000 for structures appurtenant thereto, etc. H. W. Jorgenson, City Hall, engr.

Bids Desired

O., Paulding—Dec. 16, by R. H. Schultz, surv. Paulding Co., excavating, etc., 9,147 cu.yd. Brookes Ditch in Benton and Blue Creek Counties.

Contracts Awarded

N. Y., Buffalo—J. P. Moore, comr. Dept. Parks & Pub. Buildings, City and County Hall, excavating and foundation work for city hall, Niagara Sq., to Mosier & Summers, 1266 Seneca St., $329,000. Noted Oct. 27.

Louisiana—Bd. State Engineers, Court House, New Orleans, dredging 9,500 cu.yd. in Atchalfaya and Red River Levee Dist., Point Coupee and Rapides Parishes, to W. E. Gwin, Union Indemnity Bldg., New Orleans, at $0.33 per cu.yd., and 3,500 cu.yd. fill, to G. A. Wise, Alexandria, at $0.25 per cu.yd.

Ia., Clarinda—D. D. 22, c/o K. Millen. aud. Page Co., constructing drainage ditches, incl. approximately 10,000 cu.yd excav., etc., to Reece Constr. Co., Hamburg at $0.18 per cu.yd.

Ark., Osceola—Mississippi Co., Sub Dist. 1 Carson Lake D.D. 8, Mississippi Co., R. E. L. Wilson Jr., chn., 4 mi. drainage ditch, approximately 70,000 cu.yd. excav., to W. J. Gleason, Wilson, at $0.15 per cu.yd.

Ark., Piggott—Subsidiary D. D. 21, of St. Francis Dist., approximately 500,000 cu.

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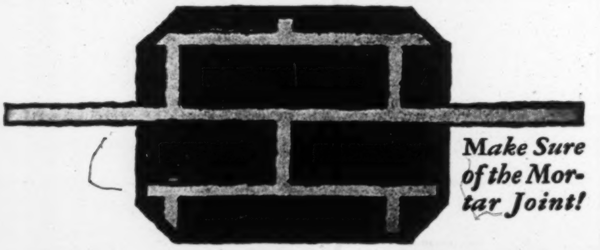

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yd. drainage ditches, Clay and Greene Counties, to Omer Dietl, Plymouth, Ind., $0.0788 per cu.yd. Engrs. est. $50,000. Noted Dec. 1.

Streets and Roads

Bids Desired

Massachusetts—Dec. 20, by Dept. Pub. Wks., Boston, bituminous macadam paving 16,533 ft. highway in Dudley, 12,429 ft. in Rockland, 15,000 ft. in Dalton and Pittsfield, also 11,091 ft. in Amherst, all 18 ft. W. F. Williams, comr.

N. Y., Buffalo—Dec. 20, at office Dept. Pub. Wks., Municipal Bldg., J. J. Love, comr., paving Kerns and Lawn Aves.; repaving Carolina, East, North and Strauss Sts., Royal, Glenwood and Briggs Aves.

N. Y., New York—Dec. 21, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading and granite block on concrete repaving Avenue A from East Houston to East 10th Sts.

New Jersey — Dec. 19, by State Hy. Comn., Trenton, grading, bridging and 8 in. double line rein.-con. paving 47,702 sq.yd. Route 30, Sect. 6 (Revision 1927), Packers Island-Allerton Rd., Hunterdon Co. A. L. Grover, ch. clk.; adv. E. N.-R. Dec. 15.

New Jersey — Dec. 28, by State Hy. Comn., Trenton, grading and 8 in. double line rein.-con. paving Route 8, Sect. 10A, Essex-Passaic Co. Line Rd. to Passaic River Bridge, Passaic Co.; and Route 30, Sect. 7 (Revision 1927) Allerton-Clinton Rd., Hunterdon Co. A. L. Grover, ch. clk.; adv. E. N.-R. Dec. 15.

Md., Baltimore—Dec. 21, by Bd. Awards, sheet asphalt on concrete paving 10,700 sq.yd. streets listed in Contr. 445. N. L. Smith, City Hall, highways engr.

Va., Portsmouth — Portsmouth-Nansemond Bridge Corp., Norfolk, taking bids asphalt on gravel surfacing 5 mi. road north of here. $100,000. Harrington, Howard & Ash, 1012 Baltimore St., Kansas City, Mo., engrs.

Florida—Jan. 10, by State Roads Dept. Tallahassee, F. A. Hathawa, chn., **(P means Project)** plain concrete surfacing 10 mi. F.A.P. 61-A, and 9.77 mi. 61-C, both Rd. 1, Gadsden Co.; Florida broken stone No. 2 surface treating 8.91 mi. P. 677-D, Rd. 13 Levy Co., and 3 mi. P. 695, Rd. 2 Lake Co.; grading, etc. 12.52 mi. F.A.P. 62-A, 11.83 mi. F.A.P. 62-C, and 12.62 mi. F.A.P. 62-D, all foregoing on Rd. 24 Osceola Co., 9.09 mi. P. 709, Rd. 39 Holmes Co., 6.18 mi. P. 710-A, and 12.69 mi. P. 710-C, Rd. 17 Hillsboro Co., 8.94 mi. P. 732, Rd. 17 Polk Co., 11 mi. P. 780, 11 mi. P. 781, and 6.62 mi. P. 782, Rd. 29 Okeechobee Co., 8.58 mi. P. 736, Rd. 39 Holmes Co., 12.9 mi. P. 683-A, Rd. 4 Palm Beach Co., 11.22 mi. P. 755, Rd. 17, 10.26 mi. P. 757, and 8.34 mi. P. 758, Rd. 2, Polk Co. J. L. Cresap, highway engr.

Alabama—Dec. 20, by State Hy. Comn., Montgomery, **(F.A.P. means Federal Aid Project and S means State Project)**, grading, etc. 9.83 mi. roadway between Brewton and Conecun Co. Line F.A.P. 189-A Escambia Co., 15.56 mi. road from Center via Cedar Bluff to Georgia Line, S-177 Cherokee Co., 6.76 mi. road between Fruitdale and Mississippi Line, S-79-C Washington Co., 17.03 mi. road between Tuscaloosa and Pickens Co. line, F.A.P. 197 Tuscaloosa Co., road from Calera to Columbiana, S-44 Shelby Co., and 14.08 mi. road from Brewton to Covington Co. line, S-90 Escambia Co.; constructing 16.64 mi. road between Dothan and Choctawhatchee River, S-247, Dale and Houston Counties; chert surfacing 6.65 mi. road between Woodstock and Bessemer, S-81-D, Tuscaloosa Co.; constructing 9.09 mi. road between Enterprise and Choctawhatchee River, S-154, Dale and Coffee Counties. W. Finnell, highway dir.

Ala., Birmingham—Jan. 3, by City Comn., curbing, guttering, walks and 6 in. concrete paving, etc. 1 block 48th St. N., 40 ft., $6,850; 6 in. concrete paving 2 blocks Ave. Z, Ensley, 30 ft. $12,560; and 2 blocks 9th Court Alley, 12 ft. $1,570; 5 in. concrete paving 300 ft. Aberdeen Rd. $1,980; grading, guttering, walks and 5 in. concrete paving 50th St., 26 and 30 ft., $70,950; also 2 in. asphalt on 5 in. concrete paving 5 blocks 21st Ave. N., 30 ft., $32,520. A. J. Hawkins, city engr.

Ala., Birmingham — Jan. 22, by City Comn., 2½ in. asphalt on 6 in. concrete paving, etc., 4 blocks 2nd St., Aves. U and V, Ensley, 30 and 40 ft., $20,150; also 2 in. asphaltic concrete on 5 in. concrete paving, etc., 2 blocks 74th St. and 4th Ave. N., 30 ft. $11,700. A. J. Hawkins, city engr.

Louisiana—Jan. 12, by State Hy. Comn., Baton Rouge, graveling 7.024 mi. Many-Zwolle-Converse-DeSoto Parish Line Highway, State Project 398-G, Sabine Parish. N. W. Bowden, Reymond Bldg., highway engr.

Michigan — Dec. 20 ,by C. L. Cowgill, resident engr., Plymouth, concrete paving 85,340 sq.yd. T. L. Rd. MO50-7, C-2, Macomb Co., 20 ft., for State Hy. Dept., Lansing. Noted Oct. 6.

Michigan — Jan. 6, by H. C. Fleming, resident engr., Grand Rapids, grading and concrete paving 99,634 sq.yd. MO61-18, C-1, Muskegon Co., 20 ft., for State Hy. Dept., Lansing.

Illinois -- Dec. 21, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete, vitr. brick or bituminous concrete surfacing 6.26 mi. Route 13, Seet. 28 St. Clair Co., 0.4 mi. Route 27, Sect. 4-S and 1.27 mi. Route 40, Sect. 5-X Carroll Co., 0.27 mi. Route 33, Sect. 6-X and 3.47 mi. Route 49, Sect. 110 Jasper Co., 12.2 mi. Route 64, Sect .126 DeKalb and Kane Counties, 6.82 mi. Route 64, Sect. 127 Kane Co., 1.83 mi. Route 116-A, Sect. 101 Marshall Co., 13.9 mi. Route 122, Sect. 128 Tazewell and McLean Counties, 9.39 mi. Route 129, Sect. 105 Shelby Co., 1.22 mi. Route 147, Sect. 122 Pulaski Co., and 6.93 mi. Route 176, Sect. 144 Lake Co.; grading 2.49 mi. Route 147, Sect. 122-A, Pulaski Co. F. T. Sheets, ch. highway engr.

Kan., Hiawatha — Dec. 22, by Clerk Brown Co., sand clay surfacing 6.898 mi. Project 187, and 9.978 mi. Project 188, both on U. S. 36.

Kan., Ottawa—Jan. 10, by J. R. Finley, clk. Franklin Co., grading, etc. 3.976 mi. Sect. A, and 2.819 mi. Sect. B Project 143, on K 33, 28 ft. Noted Dec. 8.

Kan., Troy—Dec. 29, by Clerk Doniphan Co., sand clay surfacing 8.012 mi. Sect. A and 7.292 mi. Sect. C U. S. 36, Project 185.

Tex., Houston—Dec. 21, by H. L. Washbourn, aud. Harris Co., grading 52,639 cu. yd. Main Street Rd. from Bellaire Blvd. to 1st S. P. crossing, and bridge across Brays Bayou, $32,500. Howe & Wise, Court House, engrs.

Okla., Shawnee—Dec. 20, by J. C. Coleman, city clk., grading, curbing and rock asphalt paving 24,200 sq.yd. various streets. $98,200. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs.

Calif., San Francisco—Dec. 21, by State Bd. Harbor Comrs., Ferry Bldg., 69,000 sq. ft. Topeka, 61,000 sq.ft. concrete and 8,000 sq.ft. bituminous paving, etc., The Embarcadero between Bay and Powell Sts. F. G. White, Ferry Bldg., ch. engr.

Calif., Ventura—Dec. 21, by Supervs. Ventura Co., grading and concrete paving 4,563 cu.yd. etc. Grimes Canyon Rd. C. W. Petit, Ventura, co. surv.

Ont., Brantford — See "Contracts Awarded."

Ont., Kapuskasing — Dec. 24, by R. M. Myers, engr., Town Hall, concrete curbing and paving 2½ mi. various streets, 30 ft. $100,000.

Contracts Awarded

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading Franklin Ave. and Avenue M, to Grimm Contg. Co., 170 McKinley Ave., $609 and $1,012 respectively, 63rd and East 19th Sts., to Metal Forms Foundation Co., 44 Court St., $5,140 and $3,871 respectively, Avenue T, to F. Persicano, 350 Franklin St., $2,846, and 56th St., to J. V. Turecamo, foot Bay 32nd St., $4,474; sheet asphalt paving East 32nd St., to D. J. McCoy Asphalt Co., Avenue U and East 57th St. $18,844, Engert Ave., to Sicilian Asphalt Paving Co., 41 Park Row, New York City, $11,466, 1st St., to Cranford Co., 52 9th St. $11,962, and 85th St., to B. Turecamo Contg. Co., 8706 16th Ave. $3,996. Grand total $64,220. Noted Nov. 24.

New Jersey—State Hy. Comn., Trenton, grading and 8 in. double line rein.-con. paving 15,563 sq.yd. Route 1, Sect. 3A, Robbinsville Cut-off Mercer Co., to J. A. Grant, Morrisville, Pa., $60,678; and 51,510 sq.yd. Route 30, Sect. 5 (Revision 1927), Hunterdon Co., to Hyde-McFarlin Co., Kings Rd., Madison, $249,018. Noted Nov. 17.

N. J., Newton—Mayor and City Council, asphalt paving various streets, to J. F. McGreevey, 141 North Main St., Manasquan, $64,499.

Maryland — State Roads Comn., Baltimore, graveling 1.2 mi. Contr. AA-48, Anne Arundel Co., to F. Moreland, Greenock, $14,868. Noted Nov. 17.

Md., Baltimore—Bd. Awards, sheet asphalt paving 9,850 sq.yd. streets listed in Contr. 442, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $40,832. Noted Nov. 24.

Md., Baltimore — Bd. Awards, concrete work, grading, etc. area around Highlandtown School, 5th St. and Claremont Ave., to W. F. Huse, 2800 Montebello Ave., $11,297; Douglass High School, to F. Marine, 2 East Lexington St., $3,655; and Lyndhurst School, Collins Ave. near Edmondson Ave., to C. J. Spielman Co., Westport, Baltimore, $12,566, for Mayor and City Council. Grand total $27,518.

Ga., Sandersville—Warrenite bitulithic on concrete paving, etc. 25,000 sq.yd. roadway, to McDougold Constr. Co., 180½ Spring St., Atlanta, $100,000.

Alabama—State Hy. Dept., Montgomery, **(e.e. means engrs. est.)** sand-clay paving, etc. 17.62 mi. roadway between Dothan and Columbiana, Houston Co., to Wofford & Co., Dothan, $11,769 e.e. $12,000, and several small concrete bridges on same roadway, to Everglades Constr. Co., Dothan, $55,193 e.e. $55,850; grading, etc. 12.22 mi. roadway between Mount Willing and Wilcox Co. line, Lowndes Co., to W. F. Flowers, St. Petersburg, Fla., $65,687 e.e. $66,100; repaving 32 mi. roadway between Gadsden and Birmingham, St. Clair Co., to S. C. Taylor, Martin Bldg., Birmingham, $121,200 e.e. $122,200; chert surfacing, etc. 7.482 mi. roadway between Guntersville and Arab, Marshall Co., to Newell Constr. Co., Martin Bldg., Birmingham, $32,358 e.e. $33,200; grading, etc. 600 ft. south approach to Tennessee River bridge, Morgan Co., to J. B. Turner, Columbiana, $8,684 e.e. $9,000; graveling and top-soiling 8.614 mi. roadway between Jacksons Gap and Camp Hill, Tallapoosa Co., and grading and constructing several small concrete culverts on Marvin-Society Hill Rd., Russell Co., to Granson Constr. Co., Jacksonville, Fla., $25,561 and $4,382 respectively e.e. $26,100 and $4,700 respectively; constructing several small treated timber bridges on Little River-Uriah Rd., Monroe Co., to Hudson & Mims, Uriah, $12,307 e.e. $13,000; several small timber and concrete bridges, total approximately 800 ft. on Prattville-Selma Rd., Autauga Co., to Lamb & McLemore, Eutaw, $33,971 e.e. $34,100; and small concrete bridges, approximately 600 ft. long on Birmingham-Gadsden Rd., Jefferson Co., to Nixon & Phillips, Lincoln Life Bldg., Birmingham, $21,126 e.e. $22,000. Grand total $392,238. Noted Nov. 3.

Miss., Kosciusko—Attala Co., graveling 9.995 mi. Project 54-A, Durant-Starkville Rd., to S. B. Boyd, Columbia, $17,074; and furnishing 34.418 tons washed and sand clay gravel, f.o.b. Kosciusko, Munsen Crossing Spur, Lampton Crossing Spur and Ethel, to Columbus Gravel Co., Columbus, $34,185. Noted Nov. 10.

La., Plaquemine—Grading, curbing, sidewalks, etc., on various streets, to Globe Constr. Co., Louisiana Bldg., New Orleans, $28,000. Noted Nov. 17.

Ind., Laporte—Laporte Co., graveling 1¾ mi. Henry Rd., to Smith Bros., West Lebanon $14,397, and 2¾ mi. Pahs Rd., to Harshman & Jarrell, Frankfort $24,870; also asphalt paving ¾ mi. Groehler Rd., to C. Kain, Medaryville, $19,500. Grand total $58,767. Noted Nov. 10.

Ind., Martinsville — Rein.-con. paving Kyger St., to W. J. Neese Co., Mishawaka, $44,042.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, grading Route 142, Sect. 116-A, Hamilton Co., to Higgins Dyer Co., Granite City, $45,639, and Route 81, Sect. 102-A, Henry Co., to Central Eng. Co., 809 Putnam Bldg., Davenport, Ia., $29,704. Noted Sept. 15.

Ill., Niles (mail Chicago)—Curbing, guttering and 6 and 7 in. concrete paving 10,860 sq.yd. Keeney Ave., to Arcole Constr. Co., Evansville, $43,396. Engrs. est. $44,000.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., grading, curbing, paving, etc. Maple St. and 1 alley, to F. W. Blodgett, 521 Newton Ave., $505 and $1,480 respectively; Teutonia Ave., to R. H. Gumz, 831 13th Ave., $16,509; 2 alleys, to Wisconsin Asphalt Paving Co., 123 Wisconsin Ave., $2,278; and 2 alleys, to Schwerm Bros., 50 Lee St., $5,741. Grand total $26,513.

Ia., Anamosa—Jones Co., mineral aggregate paving U. S. Rd. 161, to Dubuque Stone Products Co., Dubuque, $59,420.

Ia., Council Bluffs — Auditor Pottawatamie Co., grading and paving 5.189 mi. U. S. Road 34, Project F-280, to Western Asphalt Paving Corp., Sioux City, $137,600.

Constr. News page 298

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INDUSTRIAL BROWNHOIST

Streets and Roads (Continued)

Kan., Hiawatha — Brown Co., grading 5.03 mi. K20 Project 93, to J. J. Thomson, Omaha, Neb., $28,978. Noted Nov. 17.

Kan., Lyndon—E. Chappell, clk. Osage Co., gravel surfacing 8.608 mi. Project 164-A and C, also 8.895 mi. Project 165-A and C, both 28 ft., to Koehler Constr. Co., Sterling, Neb., $15,582 and $14,317 respectively. Noted Nov. 10.

Kan., Oswego—Labette Co., grading 3.597 mi. K12, Project 214-B, to J. Spitcaufsky, 2452 Benton Blvd., Kansas City, Mo., $49,407. Noted Nov. 17.

Kan., Sedan—Chautauqua Co., grading 4.495 mi. and concrete paving 0.505 mi. U. S. 166 Project 384-A, to M. R. Ammerman, Wichita, $50,493. Noted Nov. 17.

South Dakota—State Hy. Comn., Pierre **(F.A.P. means Federal Aid Project and S.P. State Project)**, to Western Asphalt Paving Co., Sioux City, Ia., concrete paving 3.69 mi. F.A.P. 153, Union Co. $97,752; to Western Bridge Constr. Co., Omaha, Neb., grading 13.89 mi. F.A.P. 181-E $24,887 and 5 mi. F.A.P. 228-A $12,384, both Potter Co. to W. R. Larson Co., Watertown, 12.9 mi. F.A.P. 199-B, Codington Co. $39,600, 11.63 mi. F.A.P. 191-B, Clark Co. $11,266, 13.33 mi. F.A.P. 191 F, Clark Co. $18,758, and 39.74 mi. F.A.P. 149-A, B, C and 94 Spink Co. $36,317, to Dowd Bros. & Noonan-Hyde Co., Watertown, 14 mi. F.A.P. 216-A, Brown Co. $19,559, to N. J. Olson, Scenic, 16.03 mi. F.A.P. 218-A, Jackson Co. $55,008, to P. G. Thompson, Summit, 2.66 mi. F.A.P. 223, Roberts Co. $28,647, to R. P. England, Mitchell, 16.52 mi. F.A.P. 229-A, Charles Mix Co. $46,451, and 18.96 mi. F.A.P. 143, Sully Co. $41,925, to T. J. Tobin Co., Madison, 16.06 mi. F.A.P. 219-B, Walworth Co. $45,534, 14.02 mi. F.A.P. 149 Douglas Co. $37,020, and graveling 29.4 mi. F.A.P. 215-A and B, Stanley Co., $64,250, also 20.71 mi. F.A.P. 215-C and D, Haakon and Stanley Counties $43,037; to Van & Van, Hull, Ia., graveling 10.93 mi. F.A.P. 95-B, Faulk Co. $25,032, and regraveling 15.15 mi. F.A.P. 20-A and B, Walworth Co. $9,510; to H. Pickus, Madison, graveling 10.13 mi. F.A.P. 130-A-B-C-B, Custer Co. $10,876, to W. E. Barthelow, Spencer, 7.42 mi. F.A.P. 181-A-B and D, Dewey and Potter Counties $7,671, and 15.42 mi. F.A.P. 196-B, Aurora Co. $23,430, to Sheehan Constr. Co., Sioux Falls, 12.46 mi. S.A.P. 133, Minnehaha Co. $15,532 and 14.62 mi. F.A.P. 83, Kingsbury Co. $7,590, to Summit Constr. Co., Summit, 30.47 mi. F.A.P. 32 and 172-A, Edmunds Co. $18,994, and to S. S. Roberts, Flandreau, 12.5 mi. F.A.P. 93 and 133, Miner Co. $14,415. Grand total $779,260. Noted Nov. 10.

Ark., Paris — J. J. Wallace, chn. city comrs., grading, curbing 6 in. concrete paving approximately 63,000 sq.yd. Street Impvt. Dist. 1, to Grady Garms, Donaghey Bldg., Little Rock, $150,782. Noted Sept. 29.

Tex., Alamo Heights—Asphalt on rock surfacing about 10 mi. residential streets, to Colglazier & Hoff, 300 Seguin Rd., San Antonio, approximately $180,000. Noted June 30.

Tex., Alice—Bitulithic on Realitos limestone paving approximately 8 blocks streets around courthouse square, to South-West Bitulithic Co., c/o Gunter Hotel, San Antonio, approximately $32,000.

Tex., Amarillo—City, two course on gravel paving 15,750 yd. 14th St. from Georgia to Bellview Sts., to Amarillo Constr. Co., 606 Courtney St., $37,117.

Tex., Galveston — Rock asphalt paving approximately 28,100 sq.yd. Ave. S from 39th St. to city limits, to Moller & Roberts, Hitchcock, $73,209. Engrs. est. $60,000.

Okla., Ada—Grading and concrete paving, etc., 6,263 sq.yd. various streets, to Chilcutt & Fry. Bros., Ada, $22,104. Engrs. est. $25,000.

Okla., Blackwell—Grading and 6 in. concrete paving 17,000 sq.yd. Dist. 36, 30 ft., to O. T. Tyler, Blackwell, $51,748. Engrs. est. $55,000.

Okla., Blackwell—Concrete paving 7,000 sq.yd. Dist. 40, to O. T. Tyler Constr. Co., Blackwell, $51,748.

Okla., Oklahoma City—Grading and sheet asphalt paving 12,600 sq.yd. 16th and Kelley Sts., and 5,600 sq.yd. 46th St., to Western Paving Co., Petroleum Bldg., $58,488 and $24,981 respectively engrs. est. $65,000 and $28,291 respectively; 7 in. concrete paving 16 blocks Missouri, Rhode Island, Bath, Kelham and Nebraska Sts., to E. W. Baker & Co., Perrine Bldg., $89,728, engrs. est. $95,000. Noted Oct. 27 and Nov. 24.

Okla., Tulsa — Grading and 7 in. concrete paving 8,400 sq.yd. College and Florence Sts., to H. L. Cannady, 1122 South Lewis St., $34,683. Engrs. est. $35,000.

Nevada—State Hy. Comn., Carson City, crushed rock or crushed gravel surfacing 15,600 cu.yd. Route 3, Sect. B-2, Douglas Co., to Coolidge & Scott Reno, $53,003; and 18,900 cu.yd. Route 6, Sects. D-2, C-1 and C-2, Clark Co., to A. D. Drumm, Jr., Fallon, $60,438. Noted Nov. 17.

Washington—State Hy. Comn., Olympia, grading, etc. 70,500 cu.yd. State Road 7, Kittitas Co., to B. J. Deretick, 3425 Empire Way, Seattle, $46,932; also grading and crushed rock surfacnig 15,000 cu.yd. to Lyon & Price, 503 West 14th St., Spokane, $40,632. Noted Nov. 17.

Oregon—State Hy. Comn., Salem, grading, etc., 8.01 mi. Lakeview Highway, Klamath Co., to W. C. Elliott, Portland, concrete pipe $67,600, also grading and surfacing, etc., 6 mi. John Day Highway, Umatilla Co., to Rhodes & Dillard, Medford, $70,560.

Calif., Huntington Park—For 5 in. asphaltic concrete paving 115,272 sq.ft., and 5 in. concrete paving 41,755 sq.ft. Passaic St., etc., to G. H. Oswald, 366 East 58th St., Los Angeles, $40,106.

Calif., Los Angeles—Grading and concrete paving, etc. Ridpath Dr. between Kirkwood and Kewett Drs., to Griffith Co., Railway Bldg., $31,098; also grading and oiling, etc. Lassen St. between Sepulveda Blvd. and Zelah Ave., to Hollywood Granite Co., 1137 North Orange Ave., $82,385.

Calif., Los Angeles—Grading and concrete paving, etc. Lorena St. and Brooklyn Pl. Impvt. Dist., to Griffith Co., Railway Bldg., $40,417.

Calif., Los Angeles—Supervs. Los Angeles Co., grading, 3 in. oil macadam paving 173,271 sq.ft., also 7- to 9-in. 78,759 sq.ft., 8- to 10-in. 71,868 sq.ft., and 8 in. 203,768 sq.ft. vibrolithic concrete paving Brooklyn Ave., to Griffith Co., Railway Bldg., $189,098; also grading, rock and oil surfacing, etc. 411,082 sq.ft. South St., to C. G. Willis & Sons, 2119 East 25th St., $40,812. Noted Nov. 17.

Calif., San Diego—San Diego Co., grading, curbing, walks and 9-6-9 in. concrete paving, etc. 1,591,000 sq.ft. Market St. extension, to E. P. Ford, East San Diego. $768,232.

Calif., San Diego—San Diego Co., improving Golf Dr. in La Mesa Dist., to Stroud Bros. & Seabrook, 4316 Alabama St., $42,618; also North Leucadia St. in Merle, to Watson & Sutton, Noell St., North San Diego, $37,111.

Calif., San Luis Obispo—Concrete paving, etc. 117,697 sq.ft. Higuera St., to I. L. Ryder, San Carlos and Dupont Sts., San Jose, $38,544. Noted Sept. 29.

Calif., Santa Barbara — Grading, walks and 5 in. concrete paving, etc., 7,038 cu.yd. Cabrillo Blvd., to Cornwall Constr. Co., 227 Equestrain St., using beach sand for embankment, $143,344. Noted Mar. 3.

Calif., Stockton—G. E. Graham, clk. San Joaquin Co., improving Lower Stockton Rd., 6,350 tons asphaltic concrete, to Clark & Henery Constr. Co., Chancery Bldg., San Francisco, approximately $34,085.

Calif., Yreka—Siskiyou Co., grading and graveling, etc. Squaw Mt. Rd., to C. R. Adams, Yreka, $80,590.

Ont., Brantford—City will curb, gutter and pave with asphalt on concrete 3,600 ft. William St., 32 ft., by day labor. $35,000. F. P. Adams, City Hall, engr.

Buildings—Commercial

Proposed Work

Mass., Everett—APARTMENT—G. N. Prunier, c/o B. E. Porter, archt., 73 Tremont St., Boston, had plans prepared 4 story and basement, 55 x 105 ft., brick and stone, plain foundation, Bway. and Chestnut Sts. $150,000.

Mass., Lawrence—THEATRE—F. Pitoccelli, 74 Common St., having sketches made by J. E. Allen, 283 Essex St., new theatre, 17 Newbury St. $150,000 or more.

Mass., Roslindale (Sta. Boston) — APARTMENT—J. P. Kenney, 2071 Centre St., West Roxbury, had plans prepared 3 story and basement, 100 x 100 ft. apartment, South and Conway Sts. $150,000. Private plans.

Mass., Saugus (Ind. br. Lynn)—THEATRE—Franklin Park Lumber Co., Franklin Park, Malden, plans 1 and 2 story and basement, brick and steel, Lincoln Ave. $150,000. Engineer and architect not selected.

Mass., Somerville (br. Boston)—APARTMENT—E. Creman, 9 Union Sq., plans 4 story and basement, 115 x 130 ft., brick, Highland Ave. To exceed $150,000. Engineer and architect not selected.

Mass., Worcester—THEATRE, STORE and OFFICE—Keith-Albee Exchange, E. F. Albee, pres., 1564 Bway., New York City, having plans prepared by T. W. Lamb, 644 8th Ave., New York City, 3 story and basement, 125 x 200 ft., brick and steel, 3,600 seating capacity, Main St., here. $1,000,000 or more.

R. I., Providence—HOSPITAL—City, D. L. Richardson, supt., having sketches made by T. J. H. Pierce, City Hall, psychopathic hospital, Eaton St. $200,000.

Conn., Hartford — THEATRE — Keith-Albee Exchange, E. F. Albee, pres., 1564 Bway., New York City, having preliminary plans prepared by T. W. Lamb, 644 8th Ave., New York City, brick and steel theatre, 3,000 to 3,500 seating capacity, here. Noted Dec. 1.

Conn., Milford—FIRE STATION—City, Bd. Fire Comrs., having plans prepared by L. Asheim, 211 State St., Bridgeport, central fire station, brick and steel. $185,000 appropriated.

N. Y., Brooklyn—APARTMENT—Benel Realty Co., 263 Hawthorne Ave., had plans prepared 4 story, 60 x 83 ft. apartment, Hawthorne St. and Nostrand Ave. $150,000. S. L. Malkind, 93 Court St., archt.

N. Y., Brooklyn—APARTMENT—R. W. Duggan, 2029 Schenectady Ave., had plans prepared by Cohn Bros., 363 Slone Ave., apartment, East 32nd St. and Avenue H. $150,000.

N. Y., New York—APARTMENT—Ellbar Realty Corp., 16 East 52nd St., plans 14 story and basement apartment, on 64 x 150 ft. site, 83rd St. and Park Ave. $1,200,000. Engineer and architect not selected.

N. Y., New York—BANK and OFFICE—City Real Estate Co., 176 Bway., having preliminary plans prepared by F. P. Platt & Bro., 221 West 57th St., 2 story, 49 x 82 ft. bank and office building, 1091 Park Ave. $150,000.

N. Y., New York—CLUB HOUSE—Natl. Town & Country Club, 17 East 42nd St., will not construct 26 story, brick, steel and stone, plain foundation, Lexington Ave. and 48th St. $5,000,000. Project abandoned. Noted Mar. 18, 1926.

N. Y., New York—GARAGE—Fort Lee Ferry Garage, Inc., 900 Riverside Dr., had plans prepared by G. G. Miller, 1482 Bway., 2 story, 150 x 160 ft. garage, 228 Nagle Ave. $200,000.

N. Y., New York—LOFT—Three Hundred Forty-Seven West 36th Street Corp., 225 5th Ave., had plans prepared by G. and E. Blum, 415 Lexington Ave., 16 story and basement, 83 x 100 ft. loft, 347 West 36th St. $400,000.

N. Y., New York—MEDICAL OFFICE—Nine Hundred Sixty-One Madison Avenue Corp., 961 Madison Ave., soon takes bids general contract 14 story and basement medical office, Madison Ave. and 76th St. $285,000. A. L. Harmon, 19 West 44th St., archt.

N. Y., New York — OFFICE — Realty Trust Co., 509 5th Ave., having plans prepared by E. Roth, 1440 Bway., and takes bids in January, 20 story and basement, 90 x 11 ft. office building, 14th St. and Bway. $1,750,000.

N. Y., New York—OFFICE—Orion Building Corp., 300 Madison Ave., had plans prepared by Gronenberg & Leuchtag, 1385 Bway., 9 story and basement, 66 x 120 ft. office building, 201 East 35th St. $500,000.

N. Y., New York—OFFICE and STORE—Forty West 77th Street Realty Corp., 250 West 57th St., had plans prepared by J. M. Felson, 250 West 57th St., 15 story and basement, 40 x 100 ft. office and store building, 9 West 86th St.

N. J., Asbury Park—APARTMENT and STORE—L. Rosenbaum, c/o Siegler & Greenberg, archts., 164 Market St., Newark, having plans prepared 3 story and basement, 85 x 100 ft., brick and steel, plain foundation, here. $150,000.

N. J., Bloomfield—APARTMENT—Glen Ridge Apartment Inc., A. Lipton, pres., 24 Branford Pl., Newark, having plans prepared by Kosoff & Flatt, 164 Market St., Newark, 4 story and basement, brick and steel, plain foundation, 186 Ashland Ave. $175,000.

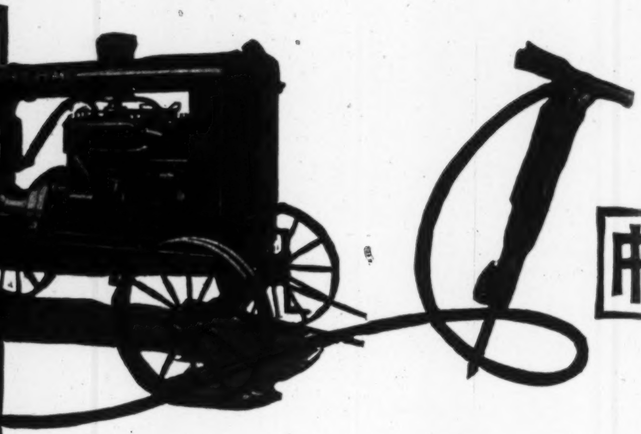
N. J., Elizabeth — APARTMENT — Progressive Impvt. Co., 120 Bway., will not construct 5 story and basement, 75 x 125 ft., brick and steel, plain foundation, North Ave. W. L. Finne, 91 Broad St., archt. Noted July 21.

N. J., Englewood — APARTMENTS — Park Lane Apartments, Inc., c/o G. V. Harvey, archt., 186 East Palisade Ave., having plans prepared three 5 story and basement, brick and steel, plain foundation, Demarest Ave. and Tenafly Rd. $450,000.

N. J., Fort Lee—BORO HALL—Boro, Municipal Bldg., Main St., plans brick and steel, plain foundation, Main St. $150,000. Engineer and architect not selected.

R-1224

The I-R Paving Breaker will do the work of 15 men with hand sledges and steels.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The superintendent of the company, who was in constant touch with operations, states that the compressor and Paving Breakers paid for themselves on this one job alone.

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Buildings—Commercial (Continued)

N. J., Hackensack—APARTMENT—E. Banta, 194½ Main St., having plans prepared by G. F. Pelham, 570 7th Ave., New York City, 5 story and basement, 145 x 260 ft., brick and steel, plain foundation, Clinton Pl. and Summit Ave. $300,000. Noted Nov. 24.

N. J., Hackensack—HALL of RECORDS—Bd. Freeholders Bergen Co., Court House, having plans prepared by C. V. R. Bogert, 167 Main St., 5 story and basement, 100 x 200 ft., brick and steel, plain foundation, Hudson St. $200,000. Noted Oct. 20.

N. J., Irvington (br. Newark)—APARTMENT—I. Bornstein, 157 Augusta Ave., will not construct 4 story and basement, brick and steel, plain foundation, 616 Lyons Ave. $150,000. Project abandoned. Noted Nov. 2.

N. J., Irvington (br. Newark)—APARTMENT—Portnoff & Edelstein, c/o R. Bottelli, archt., 45 Branford Pl., Newark, having plans prepared 5 story and basement, 70 x 150 ft., brick and steel, plain foundation, 616 Lyons Ave. $175,000.

N. J., Irvington (br. Newark)—APARTMENT—H. G. Constr. Co., Inc., c/o A. F. Amodro, archt., 45 Branford Pl., Newark, having plans prepared 3 story and basement, 80 x 140 ft., brick and steel, plain foundation, 340-48 Myrtle Ave., here. $150,000.

N. J., Jersey City — OFFICE — Owner, c/o W. Neuman, archt., 40 Journal Sq., having plans prepared 3 story and basement, 50 x 125 ft., brick and steel, plain foundation, Pavonia Ave. and Hudson Blvd. $150,000.

N. J., Kearny (Sta. Arlington)—APARTMENT—Garfield Inc., J. H. Milacky, pres., 471 Kearney Ave., having plans prepared by M. A. Wolf, 845 Broad St., Newark, 4 story and basement, 80 x 125 ft. brick and steel, plain foundation, Davis Ave. $150,000.

N. J., Linden—WAREHOUSE—J. Anderson, archt., 251 North Broad St., Elizabeth, will not construct 1 story and basement, 70 x 200 ft., brick and steel, plain foundation, Edgar and Showell Aves., here, for Atlantic Romper Co., Inc., 50 Atlantic St., Elizabeth. $150,000. Project abandoned. Noted June 2.

N. J., Newark—APARTMENT—M. Fink, 114 Lyons Ave., having plans prepared by A. J. Silberstein, 60 Park Pl., 5 story and basement, brick and steel, plain foundation, Porter and Lyons Aves. $150,000.

N. J., Perth Amboy—AUDITORIUM and STORE—O. K. Realty Co., 180 Smith St., having plans prepared by J N. Pierson & Son, 198 Jefferson St., 2 story and basement, 100 x 105 ft., brick and steel, plain foundation, Maple St. $150,000.

N. J., Plainfield—Y. M. H. A., 433 West Front St., having sketches made by L. Kraft, c/o Jewish Welfare Bd., 352 4th Ave., New York City, 3 story and basement, brick and steel, plain foundation, Central Ave. and 7th St. $150,000. Noted Oct. 20.

N. J., Weehawken—CLUBHOUSE—B. P. O. Elks, 2 6th St., having plans prepared by W. Mahnken, 401 32nd St., Union City, 2 story and basement, brick and steel, plain foundation, Hudson Blvd. and 6th St. $150,000.

N. J., West New York—APARTMENT—J. A. Sarrubi, 415 20th St., having plans prepared by C. Eicholz, 960 Bergenline Ave., Union City, 5 story and basement, 100 x 100 ft., brick and steel, plain foundation, Park Ave. and 20th St. $150,000.

N. C., Winston-Salem—OFFICE—R. J. Reynolds Tobacco Co. having plans prepared by Shreve & Lamb, 7 East 44th St., New York City, 21 story and basement, 120 x 200 ft. office building, 4th and Main Sts. $4,000,000. Noted Nov. 24.

Tenn., Knoxville — HOSPITAL — Sisters of Mercy, Nashville, having plans prepared by Crowe & Schulte, 2436 Reading Rd., Cincinnati, O., 4 story and basement, rein.-con. and brick, plain foundation, here. $375,000.

Tenn., Oakville — SANITORIUM — Oakville Sanitarium had plans prepared by Jones & Furburger, Porter Bldg., Memphis, 5 buildings. $200,000. Gardner & Howe, Porter Bldg., Memphis, engrs.

Ohio—COTTAGES—J. E. Harper, dir. Pub. Wks., Columbus, plans 2 story and basement, 80 x 112 ft. cottage at Massillon, $160,000; 2 story cottage with three 30 x 70 ft. wings, for Cleveland State Hospital, Cleveland, $150,000; also 2 story and basement, 80 x 112 ft. cottage for Toledo State Hospital, Toledo, $160,000, all foregoing brick and concrete. H. B. Briggs, Ohio-Hartman Bldg., Columbus, archt. Noted Dec. 1.

O., Columbus — STORAGE WAREHOUSE—Edwards Transfer & Storage Co., 87 North Water St., having plans prepared by Snyder & Babbitt, 16 East Broad St., 6 story and basement, 90 x 305 ft., rein.-con., Maple St. $300,000.

O., Dayton—AUTO SALES, etc.—Federation Realty Co., Callahan Bank Bldg., plans 5 story and basement, 65 x 200 ft., brick and tile, plain foundation, South Main St. $200,000. Private plans.

O., Dayton—OFFICE—Refiners Oil Co., 315 South Main St., having plans prepared by Pretzinger & Musselman, Reibold Bldg., 5 story and basement, 50 x 160 ft., brick and rein.-con., plain foundation, Monument Ave. $200,000.

O., Mansfield — City plans Y. M. C. A. building $500,000.

O., Shaker Heights (br. Cleveland)—STORE and APARTMENT—A. W. Haiman, Natl. City Bldg., Cleveland, had plans prepared by A. W. Harris, 1201 Guarantee Title Bldg., Cleveland, 3 story and basement, 92 x 100 ft., brick and steel, 18130 Kinsman Rd., here. $150,000.

Ind., Jeffersonville—COURT HOUSE—Comrs. Clark Co., T. L. Stoner, aud., having preliminary plans prepared by J. B. Bayard, 231½ Main St., Vincennes, rein.-con., brick and steel court house addition, jail and sheriff's house. $200,000.

Mich., Detroit—APARTMENT—Pollmar & Ropes, archts., 2539 Woodward Ave., soon lets contract 9 story and basement, 100 x 215 ft., rein.-con., brick and steel, plain foundation, Merrick Ave., for T. F. Norris, 1334 Majestic Bldg. $450,000.

Mich., Detroit—APARTMENT—Owner, c/o P. Rossello, archt., 406 Congress Bldg., having plans prepared 3 story and basement, 48 suite, brick and steel, plain foundation, Waterloo and Benietau Aves. $170,000.

Mich., Detroit — FIRE HEADQUARTERS—Bd. Fire Comrs., Wayne and Larned Sts., had plans prepared by H. Gherke, 2455 Woodward Ave., 3 story and basement, rein.-con., brick and steel, plain foundation, Wayne and Larned Sts. $450,000. Noted Feb. 24.

Ill., Chicago—APARTMENT—A. J. Nyberg, c/o J. H. Klafter, archt., 127 North Dearborn St., having plans prepared 3 story and basement, 50 x 226 ft., 30-32 North Menard Ave: $225,000.

Ill., Chicago—WAREHOUSE, etc.—McConnell Warehouse Co., c/o S. S. Joy, archt., 180 North Michigan Ave., plans 15 story and basement, Austin Ave., Illinois, Orleans and Kingsbury Sts. $3,000,000.

Ia., Des Moines — DEPOT — Chicago, Rock Island & Pacific R.R. Co., La Salle Street Sta., Chicago, Ill., C. A. Morse, ch. engr., having preliminary plans prepared by A. T. Hawk, c/o owner, 2 story and basement, rein.-con., brick and stone, here. $1,000,000.

Ia., Des Moines—EXCHANGE—Northwestern Bell Telephone Co., 1906 Douglas St., Omaha, Neb., takes bids early in 1928, 9 story and basement, 132 x 132 ft., rein.-con., brick, steel and stone, here. $800,000. G. B. Prinz, 1037 Omaha Natl. Bank Bldg., Omaha, Neb., archt. Rawson & Souers, 810 Hubbell Bldg., associated archts. Noted Nov. 17.

Ia., Iowa City—HOTEL—H. J. Carter, et al., 417 East Bloomington St., soon take bids 7 story and basement, 150 x 160 ft., rein.-con., brick and terra cotta hotel. $400,000. Private plans. Noted Nov. 24.

Ia., Waterloo—HOTEL—G. C. Janney, 733 Walnut St., having preliminary plans prepared by Ralston & Ralston, 218 Pioneer Natl. Bank Bldg., and Wetherell & Harrison, 1012 S. & L. Bldg., Des Moines, associated archts., 10 or 12 story, rein.-con., brick, stone, steel and terra cotta hotel. $300,000 upward.

Kan., Wichita—ARMORY—Kansas National Guard, c/o A. Cassidy, comdr., having preliminary plans prepared by C. D. Cuthbert, State House, Topeka, 3 story, rein.-con. and stone armory. $150,000.

Mo., St. Louis—APARTMENT—J. R. Fleming, 4460 Gibson Ave., purchased plans 12 story and basement, 90 x 250 ft., rein.-con., brick and stone, 4615 Lindell Blvd. $1,000,000.

Mo., St. Louis—CLUB and COMMUNITY HOUSE—German House Society, Inc., J. Toensfeldt, pres., 2345 Lafayette Ave., having plans prepared by J. Heim, 211 North 7th St., and takes bids in early spring 4 story and basement, 100 x 260 ft., rein.-con., brick and stone, 2345 Lafayette Ave. $500,000.

Mo., St. Louis — HOTEL — Syndicate forming, c/o H. R. Weisels Co., Inc., 730 Chestnut St., having preliminary plans prepared approximately 20 or more story and basement, rein.-con., brick, stone, steel and terra cotta, Market St. between 17th and 18th Sts. $5,000,000.

Mo., St. Louis—HOSPITAL—Missouri Baptist Sanitarium, 919 North Taylor Ave., takes bids early in 1925, 4 story and basement, 40 x 130 ft., rein.-con., brick and stone addition, Taylor Ave. $150,000. L. B. Pendleton, 73 DeMenil Bldg., 119 North 7th St., archt. Noted Nov. 3.

Mo., Sedalia—BANK and OFFICE—Third National Bank, H. Harris, Jr., pres., having preliminary plans prepared rein.-con., brick, stone and steel, 3rd and Ohio Sts. $250,000.

Ark., Helena—HOSPITAL—City, D. T. Hargraves, mayor, takes bids early in January, 3 story and basement, 90 x 150 ft., rein.-con., and brick hospital. $150,000. E. J. Stern, A.O.U.W. Bldg., Little Rock, archt. A. P. Coolidge, Helena, associated archt.

Tex., Ft. Worth—TERMINAL—Northern Texas Traction Co., A. F. Townsend, genl. mgr., 400 Main St., plans interurban terminal, Commerce and 6th Sts. $300,000.

Tex., Galveston—HOTEL—W. L. Moody, Jr., 2618 J. St., takes bids early in 1928, 400 room hotel, Boulevard facing Gulf. $1,000,000. Engineer and architect not selected. Noted Oct. 27.

Tex., Galveston — HOTEL — Galveston Playhouse Corp., c/o B. Sass, pres., 1925 L St., having plans prepared by Hedrick & Gottlieb, Post-Dispatch Bldg., Houston, Hotel San Luis, 6 story, roof garden and promenade, 74 x 330 ft., incl. modern fireproof garage, etc. $950,000. Noted Dec. 1.

Tex., La Feria—HOTEL—N. Waters, archt., Weslaco, preparing plans and soon takes bids 3 story hotel, here, for Laferia Hotel Co., c/o L. H. Beddoes, secy. $150,000.

Okla., Oklahoma City—WHOLESALE—Blakeney & Co., Liberty Bank Bldg., having preliminary plans prepared 2 story and basement, 100 x 140 ft., rein.-con. and brick, plain foundation, Reno St. $200,000. Engineer and architect not announced.

Okla., Ponca City — AMERICAN LEGION — American Legion, having sketches made by J. D. Forsyth, engr. and archt., Ponca City, three 2 story, 40 x 75 ft., rein.-con. building. $150,000.

Calif., Arbuckle—SANITARIUM—W. F. Harlan & A. Powers having preliminary plans prepared by Starks & Flanders, Ochsner Bldg., Sacramento, 4 story, brick and concrete sanitarium. $150,000.

Calif., Burbank — APARTMENT and STORE—O. Clark, archt., 1418 Chapman Bldg., Los Angeles, preparing preliminary plans 3 story brick and concrete, San Fernando Blvd. and Bethany Rd., here. $150,000. Owner's name withheld.

Calif., San Diego—LODGE—S. D. Lodge 168, B.P.O.E., 2nd and Bway., having plans prepared by Quayle Bros., Spreckels Theatre Bldg., 3 story and basement, 100 x 200 ft., rein.-con. and steel, incl. lodge room, banquet and ball rooms, athletic apartments, etc., Cedar St. $275,000.

Calif., San Francisco—APARTMENT—J. L. Stewart (owner and archt.), Claus Spreckels Bldg., preparing plans 10 story and basement, Stockton St. $350,000.

Calif., San Francisco—APARTMENT—O. R. Thayer, archt., 110 Sutter St., prepared plans 6 story and basement, rein.-con. and steel, Herman St. $175,000. Owners name withheld.

Ont., Oshawa—CITY HALL—City plans 3 story and basement, concrete, brick and stone city hall. $250,000. Engineer and architect not selected.

Ont., Owen Sound — HOSPITAL — General & Marine Hospital having plans prepared by J. C. Forester, 265 McNab St., Hamilton, and W. G. Brown, 327 James St., Hamilton, 3 story and basement, concrete, brick, steel and stone addition. $150,000.

Ont., Toronto—APARTMENT—P. Harman, 750 Markham St., having plans prepared by K. Hyslop, 43 Adelaide St. W., and soon takes bids 4 story, 90 x 90 ft., brick, steel and stone, brick or concrete foundation, Barton Ave. and Markham St. $150,000.

Ont., Toronto — AUTOMOBILE — Canadian Natl. Exhibition, Lumsden Bldg., having plans prepared by Chapman & Oxley, Northern Ontario Bldg., 1 story, concrete, brick and stone, Exhibition Park, $900,000.

Ont., Toronto — HOME — City having plans prepared by J. J. Woolnough, City Hall, 3 story and basement, concrete, brick and steel home for incurables. $155,000.

Que., Montreal — COURT — City soon takes bids brick and steel juvenile court. $200,000.

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Buildings—Commercial (Continued)

Ont., Toronto—PARKING GARAGE—Yolles & Rotenberg, Federal Bldg., plans 5 story (ultimately 15 story) and basement, 200 x 250 ft., rein.-con. and steel, Richmond St. W. near York St. $300,000. Engineer and architect not selected.

Bids Desired

Mass., Boston — APARTMENT — See "Contracts Awarded."

Mass., Boston—APARTMENT — Owner, c/o R. M. Dobbins, 209 Washington St., taking bids 9 story and basement, brick and steel, plain foundation, Beacon St. $150,000-$160,000. H. F. Kellogg, 378 Stuart St., archt.

Mass., Boston—OFFICE—MacMillan Co., 755 Boylston St., taking bids 3 story and basement, brick, plain foundation, 40-42 Fairfield St. To exceed $150,000. J. H. Ritchie & associates, 250 Stuart St., archts. Noted Sept. 29.

Mass., Mansfield—THEATRE—See "Contracts Awarded."

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York — EXCHANGE — Voorhees, Gmelin & Walker, archts., 342 Madison Ave., taking bids and open same about Dec. 20, 7 story and basement, brick and steel, Grand Concourse and 175th St., for New York Telephone Co., 140 West St. Noted Nov. 3.

N. Y., New York—GARAGE and RIDING ACADEMY—Feb. 1, by M. W. Whinston, archt., 116 West 39th St., 5 story and basement, 50 x 100 ft., steel and stone, plain foundation, 47 West 66th St., for Manhattan Athletic Club. $200,000. Noted Oct. 27.

N. J., East Orange—APARTMENT—See "Contracts Awarded."

N. J., Englewood—APARTMENTS—See "Contracts Awarded."

N. J., Irvington (br. Newark)—APARTMENT—See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awarded."

N. J., Newark — APARTMENT and STORE—See "Contracts Awarded."

N. J., Orange—APARTMENT—See "Contracts Awarded."

N. J., Plainfield — APARTMENT — See "Contracts Awarded."

N. J., West New York—APARTMENT—See "Contracts Awarded."

Pa., Harrisburg—OFFICE—Dec. 28, by J. L. Stuart, secy. Dept. Highways, Capitol, constructing Highway (North Office) Building. S. F. Ross & W. Gehron, 101 Park Ave., New York City, archts. Lawrie & Green, Harrisburg, associated archts; adv. E. N. R. Dec. 15.

Pa., Phila. — SALES and SERVICE — Dec. 21, by Ballinger Co., archts., 12th and Chestnut Sts., 1 story and basement, 100 x 206 ft., rein.-con., brick and steel, plain foundation, Chelten Ave. and Ogontz St., for Felt Bros., Packard Bldg.

Miss., Jackson—HOTEL—Bellevue State Apartment Hotel Co., taking bids 7 story hotel. $275,000.

Ind., Griffith—HOTEL—St. Aubin Bros., Hammond, taking bids 3 story and basement, 60 x 100 ft., brick and steel hotel and store building, here. $150,000. N. Nilsson, 1st Trust & Bank Bldg., Hammond, archt.

Mich., Ann Arbor—CLUB—Pond, Martin & Lloyd, archts., North Michigan Ave., Chicago, Ill., taking bids and open same about Dec. 15, 4 story and basement, 128 x 213 ft., rein.-con., brick and steel, plain foundation, North University Ave., for Alumni Assn., Union Bldg. $600,000.

Mich., Birmingham—MUNICIPAL—Jan. 3, by Burrowes & Eurich, archts., McKerchey Bldg., Detroit, 3 story and basement, rein.-con., brick and steel, plain foundation, Martin St., here, for City. $180,000.

Mich., Detroit — APARTMENT — See "Contracts Awarded."

Mich., Detroit—GARAGE—Book Estate, Book Bldg., taking bids and opens same about Dec. 19, 12 story (ultimately 24 story) and basement, 100 x 182 ft., rein.-con., brick and steel, plain foundation, Washington Blvd. L. Kamper, 3729 Cass Ave., archt. Noted Dec. 1.

Mich., Fordson — COURT HOUSE and POLICE HEADQUARTERS—J. Kasurin, archt., 502 Empire Bldg., Detroit, taking bids and opens same about Dec. 17, 2 story and basement, 100 x 200 ft., and 45 x 80 ft., rein.-con., brick and steel, plain foundation, here, for City. B. P. Esper, city clk. $250,000.

Ill., Chicago—APARTMENT and STORE —Dec. 20, by Huszagh & Hill, archts., 6 North Michigan Ave., 12 story and basement, 110 x 150 ft., rein.-con., brick and granite, Lawrence and Kenmore Aves., for Lawrence Building Corp., 4615 Bway. $2,300,000. Noted Sept. 29.

Ill., Chicago—CLUB and APARTMENT —E. J. Meles, archt., 105 West Monroe St., taking bids 6 story and basement, rein.-con., brick and stone, on 125 x 155 ft. site, 844-46 Montrose Ave., for Clarendon Club Building Corp., c/o architect. $406,156.

Ill., Chicago — OFFICE and STORE — Schmidt, Garden & Erickson, archts., 104 South Michigan Ave., taking bids 16 story in front 5 story in rear, 110 x 182 ft., brick, steel, granite and terra cotta, caisson foundation, 16-30 West Washington St., for Syndicate, c/o architects. $2,300,000.

Mo., St. Louis — APARTMENT — See "Contracts Awarded."

Mo., St. Louis — HOTEL — Manske & Bartling, archts., 410 North Euclid Ave., taking bids and open same about Dec. 15, 4 story and basement, 85 x 95 ft., rein.-con., brick and terra cotta, Franklin and 6th Sts., for M. Smith, c/o L. H. Williams Mortgage Co., Arcade Bldg. $200,000 Noted Aug. 4.

Ark., Texarkana—DEPOT—Dec. 21, by E. M. Tucker, archt., 1164 Railway Exch., St. Louis, Mo., 2 story, 50 x 380 ft. main building, 1 story, 50 x 228 ft. mail annex, Shed 1, 21 x 258 ft., Shed 2 223 x 1,200 ft., Sheds 3 and 4, each 20 x 1,200 ft., rein.-con., brick, steel, and stone, here, for Missouri & Pacific R.R. Co., E. A. Hadley, ch. engr., Railway Exch., St. Louis, Mo., Texas & Pacific Ry. Co., E. F. Mitchell, ch. engr., Dallas, Tex., St. Louis, Southwestern Ry. Co., W. S. Hanley, ch. engr., Tyler, Tex., and Kansas City Southern Ry. Co., A. N. Reece, ch. engr., Kansas City, Mo. $1,700,000.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Oakland—CLUB—Roeth & Bangs, archts., 1404 Franklin St., taking bids and open same about Dec. 20, 6 story and basement, rein.-con., Belleview Ave., for Womens Athletic Club, Great Western Power Bldg. $250,000. Noted Dec. 8.

Calif., San Francisco—APARTMENT—A. H. Larsen, archt., 447 Sutter St., taking bids 6 story, basement and sub-basement, steel and concrete, California and Laguna Sts., for Corporation now being organized. $350,000.

Ont., Toronto — OFFICE — See "Contracts Awarded."

Contracts Awarded

Mass., Boston — APARTMENT — L. F. Kaufman, 43 Tremont St., will build 9 story and basement, rein.-con., brick, steel and limestone, plain foundation, 14 commonwealth Ave. $300,000. Work will be done by separate contracts. G. N. Jacobs, 9 Bosworth St., archt. Noted Dec. 1.

Mass., Boston — APARTMENT — One Hundred and Seventy-Two Beacon St., Inc., 11 story and basement, 50 x 100 ft., rein.-con., brick, steel and stone, plain foundation, 172 Beacon St., to F. J. Van Etten Co., 250 Stuart St. Archts. est. $280,000. Noted May 5.

Mass., Boston—OFFICE—E. Henderson, 80 West Cedar St., 6 story and basement, brick, steel and stone, plain foundation, 264 Beacon St., to E. R. Boyle, Rear 264 Beacon St. To exceed $150,000.

Mass., Brighton (Boston P. O.) — APARTMENT—Seminary Trust, 11 Gerald Rd., 3 story and basement, 80 x 135 ft., brick and stone, plain foundation, 2045 Commonwealth Ave., to Frederick Co., 11 Gerald Rd. Archts. est. $150,000. Noted Dec. 8.

Mass., Mansfield—THEATRE—M. P. Fox, 160 Elm St., New Bedford, will build 1 and 2 story and basement, 70 x 120 ft., brick and steel, plain foundation by day labor. $160,000. L. Foster, Mansfield, archt. Noted Nov. 17.

N. Y., Bedford Hills—SANITARIUM—Montifore Home, five 1 and 2 story buildings, to Cuzzi Bros., 10 South 2nd Ave., Yonkers. Archts. est. $600,000.

N. Y., Brooklyn — APARTMENT — S. Wander (Promont Realty Co.), 50 East 42nd St., will build 15 story and basement, 48 x 93 ft. apartment, Montgomery St. and Prospect Pl. $600,000. Work will be done by separate contracts. E. Roth, 1440 Bway., archt.

N. Y., Forest Hills (Ind. sta. Flushing)—TEMPLE—Masonic Temple, Lodge 946, c/o Knap Constr. Co., 10 Continental Ave., 2 story, brick, to T. Drysdale, 250 Baltic St., Brooklyn. Archts. est. $150,000.

N. Y., Long Beach — APARTMENT — David Cummings Realty Corp., 6 story apartment, Bway. near National Blvd., to Silberblatt & Lasher, 152 West 42nd St., New York City. Archts. est. $300,000.

N. Y., New York — APARTMENT — Garant Building Co., Inc., 129 East 184th St., will build 6 story apartment, Wadsworth Ave. and 183rd St. $275,000. Work will be done by separate contracts. S. J. Ressler, Inc., 332 East 149th St., archts.

N. Y., New York — APARTMENT — S. Goldberg, 206 Bush St., will build 6 story apartment, Wallace Ave. and Arnow St. $180,000. Work will be done by separate contracts. Franklin, Bates & Heindsmann, 2526 Webster Ave., archts.

N. Y., New York—APARTMENT—H. A. Hyman, 50 East 42nd St., will build 16 story and basement, 52 x 102 ft. apartment, 141 West 79th St. $750,000. Work will be done by separate contracts. E. Roth, 1440 Bway., archt.

N. Y., New York — APARTMENT — G. and L. Constr. Co., 344 East 149th St., will build 6 story and basement, 87 x 100 ft. apartment, Fox St. near 167th St. $150,000. Work will be done by separate contracts. S. E. Oppenheim, 156 East 42nd St., archt.

N. Y., New York — APARTMENT — I. Polstein & Son, 285 Madison Ave., will build 15 story, brick, 91st St. and Riverside Dr. To exceed $1,000,000. Work will be done by separate contracts. E. Roth, 1440 Bway., archt.

N. Y., New York — APARTMENT — Retorno Co., Inc., 990 College Ave., will build 6 story and basement, 87 x 200 ft., brick, 9 Thayer St. $400,000. Work will be done by separate contracts. L. Pisciotta, 563 East Tremont Ave., archt.

N. Y., New York — APARTMENTS — Corporation, c/o J. R. Barr, pres., 347 Madison Ave. (owner and contractor), will build two 16 story apartments, 105-109 East 21st and 22nd Sts. $2,500,000. E. Roth, 1440 Bway., archt.

N. Y., New York — APARTMENTS — Corporation, c/o B. Noonan, 79 West 152nd St., will build 6 story, 200 x 256 ft. apartment, Woodycrest Ave. near Macombs Dam Park. $1,000,000. Work will be done by separate contracts. H. Ginsberg, 220 East 42nd St., archt.

N. Y., New York—LOFT and STORE—Two Hundred Twenty-Nine East 79th Street Corp., B. M. House, pres., 17 West 96th St., will build 15 story, 82 x 99 ft. loft and store building. $1,000,000. Work will be done by separate contracts. Ellis, Aaronson & Heidrich, 25 West 43rd St., archts.

N. Y., New York—STORE and DANCE HALL—Bway. Block Corp., 215 West 51st St., 3 story store and dance hall, 215 West 51st St., to Cunningham & Foley, 14 West 45th St. Archts. est. $1,100,000. Noted Dec. 8.

N. Y., Rockville Center — HOSPITAL — Hart & Shape, archts., 247 Park Ave., New York City, general contract incl. electrical work 3 story, brick and steel, plain foundation, here, to J. H. Eisele Co., 18 East 41st St., New York City, for Rockville Center Hospital Assn., Park Ave. $150,000. Noted Nov. 10.

N. J., East Orange — APARTMENT — Rubin Constr. Co., D. Lipschitz, pres., 786 Broad St., Newark, will build 4 story and basement, 75 x 100 ft., brick and steel, plain foundation, 26 Winans St. $150,000. Work will be done by separate contracts. Warren & Warren, 31 Clinton St., Newark, archts.

N. J., Irvington (br. Newark)—APARTMENT—A. Portnoff & B. Edelstein, 131 Huntington Terrace, Newark, will build 5 story and basement, 70 x 150 ft., brick and steel, plain foundation, 616 Lyons Ave. $200,000. R. Bottelli, 45 Branford Pl., Newark, archt.

N. J., Irvington (br. Newark)—APARTMENT — Sea Isle Constr. Co., c/o A. F. Amodio, archt., 45 Branford Pl., Newark, will build 3 story, 50 x 85 ft., brick and steel, plain foundation, 18th and Munn Aves., here. $150,000. Work will be done by separate contracts.

N. J., Newark—APARTMENT—Owner, c/o A. F. Amodio, 45 Branford Pl., will build 3 story and basement, brick and steel, plain foundation, Myrtle Ave. $150,000. Work will be done by separate contracts. Noted Dec. 1.

N. J., Newark—APARTMENT—Schwartz & Cohen, 49 Goodwin Ave., will build 5 story and basement, brick and steel, plain foundation, 244 Roseville Ave. $175,000. Work will be done by separate contracts. R. Bottelli, 45 Branford Pl., archt. Noted Dec. 1.

N. J., Newark — APARTMENT and STORE—Roman Realty & Constr. Co., 146 Carrol St., Paterson, will build 3 story and basement, 75 x 150 ft., brick and steel, plain foundation, 746-561 Bway., here.

Buildings—Commercial (Continued)

$150,000. Work will be done by separate contracts. Lilien & Lilien, 155 West 72nd St., New York City, archts. Noted Dec. 1.

N. J., Orange—APARTMENT—M. T. Realty Co., 810 Broad St., Newark, will build 4 story and basement, 95 x 150 ft., brick and steel, plain foundation, 250 Washington St. $175,000. Work will be done by separate contracts. H. F. Clark, 38 Clinton St., Newark, archt. Noted Dec. 1.

N. J., Plainfield — APARTMENT — M. Tzess, 46 Bock Ave., Newark, will build 5 story and basement, 90 x 100 ft., brick and steel, plain foundation, Watchung Ave. and East 9th St. $175,000. Work will be done by separate contracts. A. J. Silberstein, 104 Maple Ave., Linden, archt.

N. J., Red Bank—APARTMENT—H. J. McDonald, 48 Deal Esplanade, general contract 5 story and basement, 160 x 170 ft., brick and steel, plain foundation, Pinckney Rd. and Broad St., to H. M. Steelman, West 5th Ave., Asbury Park. Archts. est. $200,000. Noted May 19.

N. J., Ridgefield — APARTMENT — A. Boorstein & Sons, 16 18th St., West New York, will build 5 story and basement, 100 x 100 ft., brick and steel, plain foundation, Broad Ave. and Maple St., here. $150,000. Work will be done by separate contracts. G. B. McIntyre, 524 17th St., West New York, archt. Noted Dec. 8.

N. J., West New York—APARTMENT—J. A. Sarrubi, 415 20th St., will build 5 story and basement, 100 x 100 ft., brick and steel, plain foundation, Park Ave. and 20th St. $150,000. Work will be done by separate contracts. C. E. Eicholz, 960 Bergenline Ave., Union City, archt. Noted Oct. 20.

N. J., Westwood—THEATRE—New Jersey Theatrical Enterprises, 1650 Bway., New York City, general contract 2 story and basement, brick and steel, plain foundation, to M. Shapiro & Sons, 1560 Bway., New York City. Archts. est. $150,000.

Md., Baltimore—HOTEL—Title Guaranty & Trust Co., St. Paul and Lexington Sts., 12 story and basement, 50 x 123 ft., concrete, tile, marble and brick, Eager and St. Paul Sts., to M. A. Long Co., 10 West Chase St., $800,000. Noted Nov. 24.

Ga., Augusta—NURSES HOME—City, J. W. Westmoreland, clk., City Hall, 3 story nurses home, rein.-con., brick and steel, to H. B. Nelson Constr. Co., 1051 North West 29th Terrace, Miami, Fla., $135,090. Noted Nov. 24.

Ga., Waycross — HOTEL — Wallin & Comer, archts., Realty Bldg., Savannah, 8 story and basement, 100 x 100 ft., steel and rein.-con., plain foundation, to T. A. Monk, 312 Dexter Ave., Montgomery, for Community Hotel Corp., $300,000. Noted Nov. 3.

O., Cincinnati — GARAGE — Broadway Garage, Inc., 521 Sycamore St., 7 story and basement, 150 x 200 ft., brick and rein.-con., plain foundation, 6th and Broadway Sts., to Hodges Constr. Co., 241 Walnut St., $500,000.

O., Cleveland—HOSPITAL—A. E. Skeel, archt., 5005 Euclid Ave., 3 story and basement, 50 x 150 ft., and 50 x 75 ft., brick, steel and concrete, 4229 West 25th St., to A. A. Lane Constr. Co., 1869 East 55th St., for Evangelical Deaconess Hospital, A. A. Kitterer, supt., 4229 West 25th St. Archts. est. $300,000. Noted Oct. 6.

O., Columbus—STORE and APARTMENT—D. M. Casto (owner and contractor) 36 West Gay St., will build 2 story and basement, 80 x 120 ft., brick, stone and concrete, Arlington Ave. $160,000.

O., Newark—OFFICE—Ohio Power Co., super-structure 3 story and basement, 80 x 198 ft., brick and rein.-con., to Hawkins Constr. Co., 10 East Church St., Cleveland. Archts. est. $150,000.

O., Toledo — HOSPITAL — Schmidt, Garden & Erickson, archts., 104 South Michigan Ave., Chicago, Ill., general contract 9 story, 94 x 250 ft. hospital, 6 story, 63 x 161 ft. nurses home and 4 story, 93 x 176 ft. power house, etc., here, to A. Bentley & Sons Co., 201 Belmont St., for Toledo Hospital. Noted Sept. 8.

Ind., Evansville — BANK — Old Natl. Bank, general contract brick and steel bank, to M. J. Hoffman Constr. Co., Furniture Bldg. Archts. est. $150,000.

Mich., Detroit — APARTMENT — C. E. Reichle Co., 8780 Grand River Ave., will build 4 story and basement, 70 x 133 ft., brick and steel, plain foundation, Hamilton Ave. $150,000. Private plans. Work will be done by separate contracts.

Ill., Chicago — APARTMENT — B. E. Bogeaus, 180 North Michigan Ave., masonry contract 13 story, 66 x 131 ft. apartment, 442-46 St. James Pl., to Rosenberg, Peterson & Leaf Constr. Co., 5153 North Clark St. Archts. est. $350,000.

Ill., Chicago—CLUB—Medinah Athletic Club, 11 South La Salle St., general contract 44 story, dome, and sub-basement, 100 x 175 ft., concrete, steel and stone, caisson foundation, Illinois St. and Michigan Ave., to Paschen Bros., 111 West Washington St. Archts. est. $5,000,000. Noted June 9.

Ill., Chicago—CLUB—Women's Athletic Club, 606 South Michigan Ave., general contract 7 story and basement, 75 x 100 ft. clubhouse, Michigan Ave. and Ontario St., to Lundorff Bicknell Co., 180 North Michigan Ave. Archts. est. $800,000. Noted Aug. 11.

Ill., Chicago—GARAGE—Chicago Motor Ramp Garages, 38 South Dearborn St., general contract 10 story and basement, 100 x 150 ft., rein.-con., terra cotta and brick, 62-68 West Lake St., to B-W Constr. Co., 720 Cass St. Archts. est. $800,000.

Ill., Chicago—OFFICE and STORE—Fox & Fox, archts., 38 South Dearborn St., masonry contract 3 story and basement, 80 x 145 ft., rein.-con., brick and stone, Randolph and Ada Sts., to Guy & McClintock Co., 7234 Circle Ave., for Amer. Bulb Co., 182 North Wabash Ave. Archts. est. $200,000. Noted Oct. 13.

Wis., Lake Geneva—THEATRE, STORE and OFFICE—Graven & Mayger, archts., 180 North Michigan Ave., Chicago, Ill., general contract 2 story, brick theatre, store and office building, here, to Immel Constr. Co., Fond du Lac, for Lake Geneva Theatre Building Corp., c/o architects. Archts. est. $200,000.

Wis., Wauwatosa — INFIRMARY — Bd. Trustees Milwaukee Co. Institutions, W. I. Coffey, mgr., excavation, concrete, masonry and carpentry work for 3 story and basement, 200 x 235 ft., rein.-con., brick and steel dispensary, etc., to S. Czaplewski & Sons, 878 2nd Ave., Milwaukee, $172,000; cut stone and granite work, to Andres Stone & Marble Co., Kiefe and Richards Ave., Milwaukee, $28,480; tile and terrazzo, to Starch Mantel & Tile Co., 2514 North Ave., $55,000; heating and ventilating, to P. E. Mueller Co., 320 Park St., Milwaukee, $45,540; and plumbing, to Wenzel & Henoch, 498 27th St., Milwaukee, $44,429. Grand total $345,449. Noted Nov. 3.

Mo., Kansas City—OFFICE—Hoit, Price & Barnes, archts., 800 Davidson Bldg., erecting steel for 13 story, 96 x 125 ft., rein.-con., brick and steel addition, 11th and Oak Sts., to St. Louis Steel Erection Co., 3840 Market St., St. Louis, for Southwestern Bell Telephone Co., Telephone Bldg., St. Louis. Noted Nov. 17.

Mo., St. Louis—APARTMENT—Weinberg Realty & Constr. Co., 816 Chestnut St., will build 3 story and basement, 44 x 90 x 145 ft., rein.-con. and brick, 325 North Taylor Ave. $150,000. Work will be done by separate contracts. M. L. Latner, 816 Chestnut St., archt. Noted Nov. 24.

Mo., St. Louis—APARTMENT, GARAGE and STORE—Northwestern Corp., 6304 West Florissant Ave., 2 story and basement, 40 x 56 ft., and 50 x 200 ft., rein.-con. and brick, West Florissant and Floy Aves., to William H. and Nelson Cunliff Co., 410 North Euclid Ave. Archts. est. $150,000.

Mo., St. Louis—OFFICE and STORE—Railway Exchange Co., Ry. Exch. Bldg., remodeling 22 story and basement store and office building, 6th, 7th, Olive and Locust Sts., to Westlake Constr. Co., 1919 Ry. Exch. Bldg. Archts. est. $350,000.

Okla., Tulsa—OFFICE—Oklahoma Natural Gas Co., 117 West 4th St., 10 story and basement, 47 x 140 ft., rein.-con. and brick, plain foundation, 7th and Boston Sts., to Shallenberger, 1631 East 6th St., $564,240. Noted Oct. 20.

Colo., Glenwood Springs — COURT HOUSE — Garfield Co., general contract 4 story, 70 x 170 ft., brick, steel and terra cotta, to A. Danielson & Son, 926 West 10th Ave., Denver, $128,873. Noted Nov. 17.

Wash., Seattle—APARTMENT—Chevalier & Pohl, Inc., Ry. Exch. Bldg., 4 story and basement, 60 x 100 ft., rein.-con., brick and terra cotta, Harvard Ave. and Harrison St., to E. Pohl, Ry. Exch. Bldg. Archts. est. $155,000.

Calif., Los Angeles—APARTMENT—H. Feigenbaum, c/o S. Brown, archt., New Orpheum Theatre Bldg., will build 4 story and basement, brick, 4th St., by day labor. $150,000.

Calif., Los Angeles — APARTMENT — Lentzner & Anderson, 4075 Beverly Blvd., will build 4 story and basement, approximately 65 x 150 ft., brick, West Adams St., by day labor and sub-contracts. $150.000. Private plans.

Calif., Redlands — THEATRE — L. A. Smith, archt., Film Exch. Bldg., Los Angeles, 2 and part 3 story, 165 x 170 ft., rein.-con., 1,400 seating capacity, Cajon and Vine Sts., here, to H. I. Beller Constr. Co., 6519 Hollywood Blvd., Los Angeles, $250,000. Noted Oct. 6.

Ont., Toronto—OFFICE—Yolles & Rotenberg, Federal Bldg., will build 20 story and basement, 63 x 90 ft., rein.-con., brick and steel, plain foundation, Bay and Richmond Sts., by day labor. Archts. est. $1,000,000. Noted Dec. 1.

Ont., Toronto — WAREHOUSE — Bell Telephone Co. of Canada, 76 Adelaide St. W., altering and constructing 1 story, 80 x 210 ft., rein.-con. addition, to J. W. Wickett Ltd., 16 Saulter St. Archts. est. $150,000.

Ont., Windsor — GARAGE — Greater Windsor Development Co., c/o Tract & Diehl, archts., 23 West Pitt St., 3 story and basement, rein.-con., and brick, plain foundation, Park Ave., to J. W. Butler Constr. Co., Free Press Bldg., Detroit, Mich. Archts. est. $250,000.

Buildings—Industrial

Proposed Work

N. H., Concord—FREIGHT CAR SHOP—Boston & Maine R.R. Co., W. J. Backes, ch. engr., Boston, Mass., plans rein-con., brick and steel, here. $150,000.

Mass., Boston — POWER HOUSE and HEATING PLANT — City, Building Dept., plans power house and heating plant, outside Charles St. jail. $100,000. Engineer and architect not selected.

Mass., Chelsea — FACTORY — Panco Rubber Co., 31 Highland St., plans 1 story, 90 x 100 ft., brick and timber addition, plain foundation, Highland St. Schein & Levine, 448 Bway., archts.

Mass., Lynn—BOILER HOUSE—Stone & Webster, engrs., 49 Federal St., Boston, soon lets contract 1 story, 65 x 90 ft, rein.-con., brick and steel, plain foundation, off Broad St., for Lynn Gas & Electric Co., 90 Exchange St. Noted Dec. 1.

Mass., Melrose (Ind. br. Boston) — PRINTING PLANT—Melrose Free Press, Inc., E. J. MacLean, mgr., 504 Main St., having revised plans prepared by T. Hixon, 4 Liberty Sq., Boston, 1 story, 50 x 80 ft., brick and stone, plain foundation, West Foster St. $40,000 incl. equipment. Former bids rejected. Noted Dec. 1.

R. I., Providence—JEWELRY FACTORY—Brier Mfg. Co., 70 Ship St., soon lets contract 3 story, rein.-con. and brick factory unit. $70,000. F. B. Perry, 44 Franklin St., archt. Noted Dec. 8.

N. Y., Harrison — TYPE FOUNDRY — Ballinger Co., archts., 100 East 42nd St., New York City, will not construct 15 story, 349 x 620 ft., rein.-con. and brick, plain foundation, here, for Intertype Co., 1440 Bway., New York City. Project abandoned. Noted Oct. 13.

N. J., Elizabeth—PLANT—Dry-Ice Co. of America, 50 East 42nd St., New York City, having plans prepared solid carbon dioxide plant, Newark Ave., here, building $75,000, equipment $225,000. Private plans. C. O. Brown, 331 Madison Ave., New York City, consult. engr.

N. J., Newark—FACTORY—A. Peter, archt., 207 Market St., soon takes bids 1 story, 100 x 100 ft., brick and steel, plain foundation, Avenue L and Mary St., for Hygenic Tube Co., 88 McWhorter St. $40,000.

N. J., West New York — SILK GARMENT FACTORY—F. J. Ricker, archt., 685 Hudson Ave., soon takes bids general contract or sub-bids 2 story and basement, 25 x 80 ft., brick and steel, plain foundation, 13th and Jackson Sts. $40,000. Owner's name withheld.

Md., Baltimore—GARAGE—E. J. Rosenstein, Equitable Bldg., having plans prepared 2 story, irregular shaped, rein.-con., brick and steel, 39th St. and Canterbury Rd. $250,000. Private plans.

N. C., Bowditch (mail Micaville) — FELDSPAR PLANT — C. B. Hyatt, Asheville, and other North Carolina and New York interests, plan plant for mining and milling feldspar on the Black Mountain Ry., here. $500,000. J. L. Hyatt, Burnesville, and J. F. Shinn, Norwood, Me., interested.

N. C., Burlington—HOSIERY MILL—Holt Bros. Hosiery Co., Inc., plans new hosiery mill. $50,000. A. G. Holt, W. K. Holt and J. H. McEwen, all of Burlington, are interested.

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Buildings—Industrial (Continued)

O., Bellefontaine—PLANT—Bellefontaine Bridge Co. purchased 10 acre site and plans fireproof bridge manufacturing plant addition.

O., Canton—FACTORY—W. E. Eishelman Sr., pres. Canton Wet Wash Co., 9th St. S. W., plans 1 story, 40 x 78 ft., brick and concrete modern dry cleaning plant, 9th St. S.W. $40,000.

O., Cleveland—FACTORY—Cloyes Gear Co., R. T. Cloyes, pres., 1614 Collamer Ave., had plans prepared by Best & Hoefler, B. F. Keith Bldg., 2 story, 30 x 140 ft., brick and steel, Arabelle Rd. $50,000.

O., Dayton — FACTORY — Gem Metal Shield Co., Inc., Bacon and Bainbridge Sts., plans 1 story and basement, 100 x 200 ft., brick and rein.-con., Orchard St. $60,000. Engineer and architect not selected.

O., Dayton—FACTORY—Leland Electric Co., 218 North St. Clair St., plans 2 story and basement, approximately 100 x 200 ft., brick and stucco, Leo and Webster Sts. $175,000. Engineer and architect not selected.

Ind., Batesville—NEWSPAPER PLANT—Batesville Herald, 50 x 180 ft., brick, steel and stone, to W. A. Gutzwiller, Batesville. Archts. est. $42,000.

Mich., Detroit—FACTORY and ENGINEERING—Chrysler Motor Corp., Massachusetts Ave., 4 story and part basement, 60 x 400 ft., rein.-con. and brick, plain foundation, McLean Ave., to W. E. Wood Co., 1806 Ford Bldg.

Ill., Chicago—FACTORY—G. Felsensal & Son, 1407 Hudson Ave., having plans prepared by A. Alschuler, 1900 Steger Bldg., 2 story, 85 x 120 ft., brick, 4110-18 Grand Ave. $50,000.

Neb., Fairbury—WATER and LIGHTING PLANT — City having preliminary plans prepared rehabilitating water and lighting plant. $135,000. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs.

Mo., Kansas City — WAREHOUSE — Standard Oil Co., 5301 East 9th St., having plans prepared 2 story, 140 x 140 ft., rein.-con. and brick, 20th and Harrison Sts. $150,000. Private plans.

Mo., Kansas City—WAREHOUSE, etc.—Torson Constr. Co., 6600 Independence Rd., having plans prepared 2 story (ultimately 6 story), 125 x 200 ft., rein.-con. warehouse and equipment building, Woodsweather Rd. and state line. Private plans.

Mo., Springfield—CREAMERY—Missouri Farmers Assn., c/o H. A. Cowden, Virginia Bldg., Columbia, having preliminary plans prepared by Southwest Eng. Co., Woodruff Bldg., 2 story, rein.-con. and brick, here. $50,000.

Tex., Borger (Plemons P. O.)—REFINERY PLANT—Dixon Creek Oil Co., making surveys rebuilding oil and gasoline refinery plant, 25,000 bbl. daily capacity recently destroyed by fire. $150,000 incl. new machinery. Private plans.

Tex., Marshall—PLANT—Texas Natural Resources Corp., c/o W. Clifford, pres., 565 5th Ave., New York City, purchased 5,000 acre site and plans plant, Panola Co., near here. $1,000,000.

Tex., McAllen — ICE PLANT — Central Power & Light Co., plans 2 story, 50 ton capacity ice plant. $100,000.

Tex., Mercedes—PRINTING PLANT—R. N. Waters, archt., Weslaco, soon takes bids 2 story printing plant, here, for Amer. Rio Grande Land Irrigation Co., c/o Secretary. $40,000.

Tex., Port Aransas—CEMENT PLANT—California Cement Assn., c/o Chamber of Commerce, purchased site and plans cement plant. $2,500,000.

Tex., Robstown—ICE DOCKING PLANT—Central Power & Light Co., Frost Bldg., San Antonio, having plans prepared ice docking plant, steel, 25 car capacity, along Texas-Mexican Ry. tracks, here. $45,000. Private plans.

Okla., Oklahoma City — FACTORY — Taylor Marble & Tile Co., 515 West Pine St., having preliminary plans prepared 2 story, 100 x 140 ft., rein.-con. and brick, Walker St. $175,000. Engineer and architect not selected.

Okla., Sand Springs—POWER PLANT—Sand Springs Home, Inc. had preliminary plans prepared enlarging power, light and water plant. $250,000. C. Tinglley, Sand Springs, engr.

Okla., Sand Springs—COTTON MILL—Hesslein & Co., Inc., 75 Worth St., New York City, having plans prepared enlarging cotton mill, here. $100,000 or more.

Okla., Tulsa — BAKERY — R. Pinson having preliminary plans prepared rein.-con. and brick wholesale bakery, plain foundation. $275,000. Engineer and architect not announced.

Wash., Tacoma—CHEMICAL PLANT—Tacoma Electrochemical Co., c/o Pennsylvania Salt Co., 1000 Widener Bldg., Phila., Pa., had preliminary plans prepared chemical plant, here.

Calif., Diamond Springs—PLANT and TRAMWAY—Diamond Springs Lime Co., c/o Smith Emery & Co., engrs., 651 Howard St., San Francisco, having plans prepared lime plant, and 3 mi. overhead tramway. $400,000 or more.

Calif., Diamond Springs—LIME PLANT and TRAMWAY—Diamond Springs Lime Co., c/o H. C. Smith, archt., Humboldt Bank Bldg., San Francisco, having plans prepared lime plant, and 3 mi. overhead tramway, here. $400,000 or more.

Calif., Oakdale—ICE and COLD STORAGE—Union Ice Co., 354 Pine St., San Francisco, plans brick ice and cold storage plant, H St. and West Railroad Ave. $50,000. Eng. Dept. of Owners, engrs.

Calif., South San Francisco—FACTORY—P. Grassi & Co., 1945 San Bruno Ave., San Francisco, purchased site and plans factory for manufacturing travertite marble, garden furniture, etc. opposite Railroad Ave. To exceed $40,000.

Ont., Oshawa — SUB-STATION—Hydro-Electric Power Comn. of Ontario, 110 University Ave., Toronto, F. A. Gaby, ch. engr., plans concrete, brick and steel sub-station, here. $50,000.

Ont., Port Arthur — PLANT — Sudbury Basin Co. plans barium sulphate plant at Jarvis Island, 40 mi. southwest of here. $100,000.

Ont., Windsor — FACTORY — Chrysler Motor Car Co., 300 Tecumseh Rd., having plans prepared factory addition. $250,000.

Bids Desired

Mass., Boston—REPAIR and SERVICE GARAGE — Owner, c/o A. J. Carpenter, archt., 1 Moss Hill Rd., Jamaica Plain, taking bids altering and constructing 2 story, 45 x 80 ft., brick addition, plain foundation, 34-36 Troy St. $45,000.

Pa., Phila.—COLD STORAGE—Dec. 20, by Ballinger Co., archts., 12th and Chestnut Sts., 11 story and basement, 110 x 130 ft., rein.-con. and brick, concrete pile foundation, 314 South Delaware Ave., for Quaker City Cold Storage Co., Water and Spruce Sts. Noted Nov. 11, 1926.

Calif., Oakland—FACTORY—O. Uhle, 715 12th St., taking bids 2 story, rein.-con., Milton and Market Sts., for Bear Photo Co., 715 12th St. $50,000. E. M. Bergstrom, 354 Hobart St., designer.

Colo., Pueblo—OIL BLENDING PLANT—See "Contracts Awarded."

Ont., Ottawa — CENTRAL HEATING PLANT, GARAGE, etc.—See "Contracts Awarded."

Contracts Awarded

Me., Lewiston — HYDRO-ELECTRIC GENERATING PLANT — Central Maine Power Co., Water St., Augusta, will build hydro-electric generating plant, at Deep Rips on Androscoggin River, here. To exceed $40,000. Private plans.

Me., Waterville—LABORATORY—Keyes Fibre Co., 2 story, 86 x 156 ft., brick and steel laboratory, to Morton C. Tuttle Co., 862 Park Sq. Bldg., Boston, Mass.

Mass., Cambridge (Boston P. O.)—LAUNDRY—E. & R. Cleansing & Dyeing Co., Smart St., 1 and 2 story and basement, 75 x 100 ft., brick, plain foundation, Smart St., to C. C. Temple Co., 99 Chauncey St., Boston. Archts. est. $40,000.

Mass., Charleston (Sta. Boston)—REPAIR and SERVICE GARAGE—A. J. Wilson, c/o B. S. Brown, archt., 65 Franklin St., Boston, 1 story, rein.-con., steel and plain foundation, 33 Miller St., to D. E. McIntire, Inc., 74 Broad St., Boston. Archts. est. $40,000.

Mass., Dorchester (br. Boston)—HEATING PLANT and GARAGE—City of Boston, Transit Dept., 1 Beacon St., 1 story, 90 x 190 ft., rein.-con., brick and steel, plain foundation, Fields Corner Station, here, to White Constr. Co., 11 Beacon St., Boston, $164,744. Noted Dec. 8.

Mass., Dorchester (Sta. Boston)—SERVICE GARAGE, SHOWROOM and REPAIR SHOP—Pickwick Garage, c/o L. Kopzynski, archt., 80 Federal St., Boston, 1 story, 60 x 160 ft., rein.-con. and steel, plain foundation, 711 Columbia Rd., here, to Marden & Orlando, 128 Brookline St., Cambridge. Archt. est. to exceed $40,000. Noted Dec. 1.

Mass., Dorchester (br. Boston)—STOREHOUSE, etc.—Walter Baker & Co., Ltd., H. C. Gallagher, pres., 3 story, 65 x 105 ft., rein.-con., brick and steel, plain foundation, and paving Baker Court, Milton Lower Mills, here, to Aberthaw Co., 80 Federal St., Boston. Archts. est. $150,000 or more. Noted Dec. 1.

Mass., Watertown — FACTORY — F. C. Hersee Co., 47 Bacon St., altering and constructing 1 story, brick addition, plain foundation, to L. C. Titus, 60 Lincoln St., Watertown.

N. Y., Long Island City—GALVANIZING PLANT — Thomas Gregory Galvanizing Wks., 263 North Henry St., galvanizing plant, Grand Ave. and 149th St., to Austin Co., 120 Bway., New York City. Archts. est. $60,000.

N. J., Asbury Park—DRY CLEANING FACTORY — New York and New Jersey Dyeing & Cleaning Wks., Asbury Ave., general contract 2 story and basement, brick and steel addition, plain foundation, to Traub Bros., 1301 East St., Belmar. Archts. est. $40,000.

Pa., Phila. — STORAGE — Dept. City Transit, Broad St. Subway, 1 story and basement, 82 x 141 ft., brick and steel storage building incl. fencing, grading, etc., Fent Rock Terminal, to Penna Eng. & Constr. Co., Real Estate Trust Bldg., $148,266. Noted Dec. 1.

Ga., Atlanta — AUTO ASSEMBLY PLANT—A. Kahn, archt., 1000 Marquette Bldg., Detroit, Mich., 1 story, 483 x 762 ft., brick, concrete and steel, Sawtell Rd., here, to F. T. Ley Co., Consolidated Bldg., Jacksonville, Fla., for Chrevolet Motor Co., General Motors Bldg., Detroit, Mich. Noted Dec. 1.

Ala., Rockwood (mail Russellville) — SAW MILL, etc. — Rockwood Alabama Stone Co., general contract 1 story, 160 x 410 ft. steel saw mill and finishing shop to have 200 ft. crane runway at one end and 400 ft. at other end, to Ingalls Iron Wks., Inc., 720 Avenue D, Birmingham; foundations, flooring, heating, lighting and plumbing, to be done by day labor. Total approximately $100,000.

Tenn., Nashville — GARAGE and MACHINE SHOP—Davidson Co. Hy. Comn., F. M. Dorris, chn., Court House, general contract, concrete, brick and steel, 5th and Hitt Sts., to Foster & Creighton, 4th and 1st Natl. Bank Bldg., $66,650. Noted Nov. 17.

O., Canton—WAREHOUSE—Swift & Co., 33 South Clark St., Chicago, Ill., 1 story, 22 x 77 ft., brick, 1115-17 Tuscarawas St. N. E., to Lester Kilgore, Renkert Bldg., $40,000.

O., Cleveland — ELECTRIC SUB-STATION — Cleveland Electric Illuminating Co., R. Lindsay, pres.-genl. mgr., Illuminating Bldg., taking bids 4 story and basement, 56 x 125 ft., brick, steel and concrete, West 95th St. $200,000. Private plans.

O., Dayton—FACTORY—U. S. Corrugated Fibre Box Co., 1315 Martindale Ave., Indianapolis, Ind., general contract 1 story, 125 x 300 ft., brick and steel, Holmes Ave. near Soldiers Home, here, to Danis-Hunt Co., 1st and Webb Sts. Archts. est. $50,000. Noted Oct. 20.

O., Mansfield—FOUNDRY, etc.—Humphrey Mfg. Co., 1 story, 50 x 120 ft. foundry, and 30 x 120 ft. cleaning room, both brick and steel, to J. Wolfe & Son, Mansfield. Archts. est. $50,000.

Ind., Ft. Wayne—FACTORY—Woodward Eng. Co., East Pontiac St., general contract 1 story, 60 x 100 ft., brick and steel factory, to Truscon Steel Co., Youngstown, O. Archts. est. $60,000.

Ind., Indianapolis—BOILER PLANT—Indianapolis Water Co., 113 Monument Circle, general contract boiler plant at pumping station, Speedway Rd. and Belt Ry. tracks, to Hall Constr. Co., 406 Bd. of Trade Bldg. Archts. est. $40,000.

Ind., Muncie—FACTORY—Warner Gear Co., general contract 1 story, 140 x 180 ft., rein.-con., brick and steel, Pennsylvania and Clark Sts., to A. J. Glaser, Lincoln St. and Cleveland, Cincinnati and St. Louis Ry. tracks. Archts. est. $50,000.

Mich., Detroit — STORAGE — Hudson Motor Car Co., 10617 Knodell Ave., 3 story and part basement, 80 x 100 ft., rein.-con. and brick addition, plain foundation, Knodell Ave., to Martin-Krausmann Co., 955 East Jefferson Ave. Archts. est. $125,000.

Mich., Lansing — HEAT TREATING PLANT—Atlas Drop Forge Co., West Hope St., 1 story, 60 x 170 ft., brick and steel, plain foundation, West Hope St., to Reniger Constr. Co., 177 North Cedar St. Archts. est. $60,000.

Mich., Lansing — AUTO PLANT — Reo Motor Car Co., South Washington St., 3 story, 65 x 100 ft., rein.-con. and brick addition, plain foundation, South Washington St., to Reniger Constr. Co., North Cedar St. Archts. est. $100,000.

Ill., Chicago — BAKERY — Grennan Bakeries, Inc., 118 South Oakley Blvd., masonry and carpentry contract 3 story, 80 x 84 ft. addition, 2301-17 Wilcox St., to G. Thomson & Son Co., 30 North La Salle St. Archts. est. $125,000.

Buildings—Industrial (Continued)

Ill., Chicago—BAKERY—Ward Baking Co., 114 South Racine Ave., masonry and carpentry contract 3 story, 78 x 149 ft. addition, 114-30 South Racine Ave., to Equity Constr. Co., 25 West 43rd St. Archts. est. $150,000.

Ill., Chicago — FACTORY — S. Bingham Sons, 636 Sherman St., masonry contract 2 story, 99 x 101 ft. addition, 700-10 Sherman St., to W. Adams Co., 209 South La Salle St. Archts. est. $50,000.

Ill., Rockford — STEEL PRODUCTS PLANT—Damascus Steel Products Corp., general contract 1 story, 60 x 260 ft., rein.-con., brick and steel, Kishwaukee St., to A. Linden & Sons, 1110 10th St. Archts. est. $60,000.

Colo., Pueblo—OIL BLENDING PLANT —Forbush Fuel & Ice Co., 100 North Grand Ave., will build 2 story and basement, 30 x 40 ft., rein.-con. and brick, plain foundation, by day labor. $43,000.

Calif., Los Angeles—FACTORY—C. F. Plummer, archt., 1108 Story Bldg., 1 story, 100 x 100 ft., brick, Telegraph Rd. and Atlantic Ave., to S. N. Benjamin, 718 East 16th St., for Sterling Electric Motors, Inc., 120 West 4th St. Noted Dec. 1.

Calif., Stage—CHEMICAL PLANT—R. T. Orendain, constr. mgr., Western Industries Co., 110 Sutter St., San Francisco, will build 5 story, acetic acid, wood alcohol and charcoal factory, concrete, steel and tile here. $250,000.

Ont., Oshawa—REPAIR SHOP—General Motors of Canada, general contract 1 story and basement, 100 x 100 ft., rein.-con., brick and steel repair shop, also ¼ mi. concrete testing track, to Jackson Lewis Co. Ltd., Federal Bldg., Toronto; structural steel, to McGregor & McIntyre, 1139 Shaw St., Toronto. Archts. est. $150,000.

Ont., Ottawa — CENTRAL HEATING PLANT, GARAGE, etc.—Gauoni Insulated Walls Ltd., Jackson Bldg., Bank St. W., will build central heating plant, garage, and 40 dwellings, western section city, by day labor. $100,000. H. Ganvin, 1008 Bronson Ave., engr.

Ont., Windsor — AUTO FACTORY — Chrysler Corp. of Canada, 300 Tecumseh Rd., 2 story, 100 x 400 ft., rein.-con. and steel addition, to S. E. Dinsmore & Co., Security Bldg.

Buildings—Educational, Religious

Proposed Work

Me., Lewiston—HIGH SCHOOL—City, R. J. Wiseman, mayor, plans 2 story and basement, probably brick and stone high school. $150,000. Engineer and architect not selected.

Mass., Andover — LIBRARY, DINING HALL and INN — Phillips Andover Academy, J. H. Buttimer, supt. buildings, having preliminary plans prepared by C. A. Platt, 101 Park Ave., New York City, library, dining hall and inn, on Academy grounds. Noted Dec. 1.

Mass., Ayer—HIGH SCHOOL—Town, J. E. Carney, chn., plans brick, Main St. $150,000 or more. Engineer and architect not selected.

Mass., Lynn—SCHOOL—City, Dept. Pub. Buildings, plans rebuilding Tracy School, 3 story and basement, brick and stone, Walnut St., recently destroyed by fire. $250,000-$500,000. Engineer and architect not selected.

Mass., New Bedford—CHURCH—Church of Nazarene Society, I. M. Brown, pastor, 268 Cottage St., plans church, Cottage St. $150,000 or more. Engineer and architect not selected.

Mass., West Roxbury (sta. Boston) — CHURCH — Holy Name Parish, W. P. McNamara, pastor, 1689 Centre St., having sketches made by E. T. P. Graham, 171 Newbury St., Boston, 1 story and basement, brick and stone, plain foundation, Centre St. and West Roxbury Parkway, Funds to exceed $150,000 being raised for same. Noted Sept. 15.

N. Y., Bronxville (Ind. br. Yonkers) — HIGH SCHOOL—Bd. Educ. having plans prepared by H. L. Walker, 144 East 54th St., New York City, Junior High School, brick, Pondfield Rd. $800,000.

N. Y., Brooklyn—TEMPLE—Parkway Temple, c/o P. H. Lustig, 1042 DeKalb Ave., having preliminary plans prepared by A. W. Brunner, Inc., 101 Park Ave., New York City, temple, 2,200 seating capacity, Eastern Parkway and Grand Army Plaza. $800,000.

N. Y., Canandaigua—GYMNASIUM—Bd. Educ., F. E. Fisk, supt., Canandaigua Free Academy, having preliminary plans prepared by W. Potter, 22 East 17th St., New York City, 1 story and basement gymnasium, Main St. $200,000.

N. Y., White Plains—HIGH SCHOOL—Bd. Educ., L. C. Shark, secy., plans high school addition, Mamaroneck Rd.

N. Y., Yonkers—TRADE SCHOOL—Bd. Educ., South Bway., had plans prepared by G. H. Chamberlin, 18 South Bway., 2 story addition to Saunders Trade School. $492,937.

N. J., Dayton — SCHOOL — Bd. Educ. South Brunswick Twp. having sketches made by A. Merchant, 52 Patterson St., New Brunswick, 2 story and basement, brick and steel, plain foundation. $160,000.

N. J., New Brunswick—TEMPLE—Temple Anshe Emeth Congregation, Livingston Ave., having sketches made 2 story and basement, brick and steel, plain foundation, Livingston Ave. and Sanford St. $150,000. Engineer and architect's names withheld.

N. J., Princeton—SCHOOL—Twp. School Bd., L. V. Silvester, pres. plans Withspoon Street School addition $120,000, and school at Stoney Brook. $30,000.

N. J., Raritan—SCHOOLS—Bd. Educ. having sketches made by Greisen & Tusig, 175 Smith St., Perth Amboy, Clara Barton School addition $175,000, and Sand Hills School $150,000; also by A. Merchant, 52 Patterson St., New Brunswick, Piscatawaytown School $175,000, each 2 story and basement, brick and steel.

N. J., South Plainfield—SCHOOL—Bd. Educ., Plainfield Ave., soon takes bids general contract 2 story and basement, brick and steel, plain foundation, Hamilton Blvd. $150,000. G. M. Ricci, 224 Smith St., Perth Amboy, archt. Noted Sept. 29.

N. J., South River—HIGH SCHOOL—Bd. Educ., Boro Hall, having sketches made by A. Merchant, 52 Patterson St., New Brunswick, 2 story and basement, brick and steel, plain foundation. $350,000.

Ill., Chicago—INDUSTRIAL MUSEUM —South Park Comrs., 5700 Cottage Grove Ave., E. J. Kelly, pres., having plans prepared by Graham, Anderson, Probst & White, 80 East Jackson Blvd., reconstructing old Fine Arts Building into Rosenwald Industrial Museum, 57th St. in Jackson Park. $5,000,000.

Ill., Rockford—SCHOOL—Bd. Educ., J. Alder, pres., 615 South 4th St., takes bids in 1928, 2 story and basement, rein.-con., brick and stone, Huffman Blvd. and Custer Ave. $225,000. Peterson & Johnson, Swedish Amer. Bank Bldg., archts. Noted Dec. 8.

Ill., Chicago — CHURCH and COMMUNITY CENTER — Granger & Bollenbacher, archts., 332 South La Salle St., soon takes bids 2 and 3 story, brick and stone, 91st St. and Houston Ave., for Frendship Center, 9114 Houston Ave. $200,000. Noted Nov. 10.

Mo., Kansas City—CHURCH—Redemptionist Fathers Church, Bway. and Hunter Sts., having plans prepared by M. Carroll, 705 Linwood Blvd., and takes bids early in January, 3 story and basement, U shaped, rein.-con. and Bedford stone, Bway. and Hunter Sts. To exceed $150,000.

Ark., Ft. Smith—HIGH SCHOOL—Bd. Educ., G. C. Hardin, pres., Merchants Natl. Bank Bldg., takes bids about Jan. 2, 3 story, rein.-con., brick and stone, 23 and B Sts. $300,000. Perkins, Chatten & Hammond, 160 La Salle St., Chicago, Ill., Bassham & Wheeler, Kennedy Bldg., and Haralson & Nelson, Merchants Natl. Bank Bldg., associated archts. Noted Dec. 1.

Tex., Texas City—HIGH SCHOOL—Bd. Educ. takes bids after Jan. 1, 2 story, 71 x 209 ft., rein.-con. and brick, plain foundation, $150,000. Page Bros., Brownsville, archts. M. L. Calcasieu Bldg., San Antonio, engr. Noted Dec. 1.

Okla., Oklahoma City—HIGH SCHOOLS —Voted $1,700,000 bonds, 2 new schools, for Bd. Educ.

Calif., Placerville—HIGH SCHOOL—Placerville Union High School Dist. voted $175,000 bonds, 2 story, brick high school. Davis-Pearce Co., Grant and Weber Sts., Stockton, archts. Noted Nov. 17.

Ont., Hamilton—COLLEGE—McMaster University Bd., 273 Bloor St. W., Toronto, having plans prepared by W. L. Somerville, 2 Bloor St. W., Toronto, several 2 and 3 story and basement, concrete, brick and steel buildings, incl. classrooms and dormitories, McKittrick Estate, here. $1,500,000. Noted Nov. 3.

Bids Desired

R. I., Edgewood (Sta. Providence) — CHURCH—St. Paul's Parish, M. J. McCabe, pastor, taking bids 1 story and basement, brick and stone, plain foundation. $150,000. A. J. Murphy, 25 Fenner St., Providence, archt. Noted Nov. 3.

Conn., Hartford—SCHOOL—City, Southwest School Dist., taking bids brick and steel addition, White St. $150,000. Ebbetts & Frid, 15 Lewis St., archts. Noted Sept. 22.

N. Y., Trumansburg—HIGH SCHOOL—Dec. 22, by Bd. Educ., Central School Dist. 1, incl. towns of Ulysses, Covert, and Hector, high school, here. C. C. Ade, 89 East Ave., Rochester, archt. Noted Nov. 3.

N. J., North Plainfield (mail Plainfield) —SCHOOL—Dec. 30, by Bd. Educ., 125 Somerset St., general contract 2 story and basement, brick and steel, plain foundation. $200,000. J. N. Pierson & Son, 198 Jefferson St., Perth Amboy, archts. Noted Nov. 10.

N. C., Greensboro—CHURCH and SUNDAY SCHOOL—Dec. 20 (selected list of contractors), by First Presbyterian Church, rein.-con., brick and steel Church and Sunday School. $500,000. H. Upjohn, Grand Central Terminal, New York City, archt. H. Barton, Greensboro, associated archt.

Miss., Crystal Springs — SCHOOL — J. Sullivan, supt., Copiah Co. Bd. Educ., Hazelhurst, taking bids 3 story, rein.-con., brick and stone school. $225,000. C. H. Lindsley, Lamar Life Bldg., Jackson, archt.

Ky., Morehead — AUDITORIUM-GYMNASIUM and RESIDENCE—Dec. 21, by Superintendent Pub. Instruction, Capitol Bldg., Frankfort, 95 x 100 ft. audtiorium-gymnasium and residence, here, for Morehead State Normal School. $175,000-$200,000. Joseph & Joseph, Francis Bldg., Louisville, archts. and engrs.

Mich., Kalamazoo—SCHOOL—Dec. 19, by H. W. Anderson, bus. mgr. Bd. Educ., 2 story and basement, rein.-con., brick and steel, plain foundation, Early School Site. $150,000. E. S. Batterson, 901 South Westnedge St., archt.

Wis., Milwaukee—SCHOOLS—Dec. 22, by Bd. School Directors, Lincoln High School and Binner School for Deaf, 4 story and basement, 194 x 253 ft., rein.-con. and brick, plain foundations, Ogden and Cass Aves. $1,250,000. Private plans.

Wis., Wauwatosa — SCHOOL — Dec. 23, by Bd. Educ., (1st unit) 3 story and basement 135 x 160 ft. high school, East Milwaukee Ave. $225,000. Herbst & Kuenzli, 130 Wisconsin Ave., Milwaukee, archts. Former bids rejected. Noted Nov. 24.

Calif., South Pasadena—HIGH SCHOOL —Bd. Educ., taking bids Junior High School, 2 story, incl. classrooms, auditorium, 1,200 seating capacity, etc., rein.-con., for City. $200,000 or more. N. F. Marsh & Co., Bway. Central Bldg., Los Angeles, archt. Noted July 7.

Contracts Awarded

Mass., Andover—FRATERNITY—Phillips Andover Academy, 3 story and basement, brick and stone, plain foundation, to E. W. Pitman Co., 301 Essex St., Lawrence. Archts. est. $150,000.

Mass., Clinton — SYNAGOGUE — Jewish Community Centre, c/o M. Long, 46 High St., 1 story and basement, brick and stone, plain foundation, Water St., to J. T. McMahon, 18 Chase St. Archts. est. $150,000.

R. I., Providence — CONVENT — St. Michaels Roman Catholic Church, c/o O'Malley & Fitzsimmons, archts., 84 Broad St., Pawtucket, 3 story and basement, brick and stone, plain foundation, Oxford and Gordon Sts., to Bouvier-Brien Constr. Co., 189 Sayles St., Woonsocket. Archts. est. $150,000. Noted Nov. 17.

R. I., Warwick — SCHOOLS — Town, School Comn., Town Hall, Lakewood, Norwood and Greenwich Schools, 2 story and basement, brick and stone, plain foundation, to O. and S. Levine, 1225 Main St., West Warwick, $119,000. Archts. est. $150,000. Noted Nov. 3.

Conn., Bridgeport — CHURCH — First Methodist Episcopal Church, H. E. White, chn., rein.-con., brick and stone, Harrison and Golden Hill Sts., to W. R. Muirhead & Son, 541 Maple St., Bridgeport. Archts. est. $500,000. Noted Nov. 3.

Conn., Bridgeport — CHURCH — St. Mary's Church, M. E. Wilson, pastor, rebuilding exterior 1 story and basement, brick and stone, Pembroke St., to Edw. E. Bray Co., 164 State St. Archts. est. $150,000. Noted Nov. 17.

N. Y., Middletown—HIGH SCHOOL—Bd. Educ., general contract 3 story, brick addition, Academy Ave., to G. D. Campbell, 46 Cannon St., Poughkeepsie, $191,000.

N. Y., Rome—SCHOOL—Bd. Educ., 2 story and basement, brick, concrete and terra cotta school, to P. Jones, 618 Charlotte St., Utica. Archts. est. $175,000. Noted Oct. 27.

N. J., Dumont — HIGH SCHOOL — Bd. Educ., Madison Ave., general contract 2 and 3 story and basement, brick and steel, plain foundation, New Milford Ave., to F. W. Bogart, Fort Lee Rd., Bogota, $409,441. Noted Nov. 17.

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Buildings—Educational, Religious (Cont.)

N. J., Orange—CHURCH, SUNDAY SCHOOL, CHAPEL and HALL—E. P. Mellon, archt., 350 Madison Ave., New York City, general contract 2 story and basement, brick and steel, Main and Scott Sts., here, to Carlsen Co., Walnut St., Montclair for First Presbyterian Church, 20 Cleveland St. Archts. est. $150,000. Noted Nov. 10.

Pa., Pittsburgh—SCHOOL—Bd. Educ., Fulton Bldg., general contract 1 and 2 story and basement, concrete, brick and steel addition to Linden Elementary School, to Constr. Corp. of Pittsburgh, Smallman St., $139,945; heating and ventilating, to F. E. Geisler Co., 242 1st Ave., $26,900.

Pa., Reading—GYMNASIUM—Bd. Educ., A. H. Leader, supt. buildings, 8th and Washington Sts., general contract 2 story, 117 x 242 ft., rein.-con., and brick, plain foundation, 13th and Olney Sts., to Reider & McLaughlin, 1504 Alsace Rd., $145,810; also heating and ventilating, to Corbitt Bros., 147 North 5th St., $55,500. Noted Nov. 3.

La., New Orleans—SCHOOL—Orleans Parish School Bd., City Hall Annex, 3 story, brick and stone addition to Jefferson Davis School, altering and constructing North Johnson St., to Caldwell Bros., 816 Howard Ave., $188,000.

O., Cleveland—HIGH SCHOOL—Bd. Educ., F. G. Hogen, dir., John Hayes High School, 4 story and basement, 200 x 238 ft., brick, steel and concrete, East 107th St. and Carnegie Ave., to W. G. Schirmer Co., 1720 Euclid Ave., $1,294,907. Noted Dec. 8.

Ind., Indianapolis—HIGH SCHOOL—School Comrs., Old Library Bldg., general contract two 3 story, 60 x 100 ft. wings, rein.-con., brick and steel, 1500 East Michigan St., to W. P. Jungelaus, 825 Massachusetts Ave., $179,200, heating to Freyn Bros., 1028 North Illinois St. $38,236. Noted Nov. 3.

Mo., St. Louis—CHURCH—Holy Trinity Catholic Parish, J. F. Lubeley, pastor, rebuilding sanctuary, transepts, etc., 14th and Mallinckrodt Sts., damaged by tornado, to Welsch Constr. Co., 42 DeMenil Bldg., approximately $150,000.

Tex., Canyon—COLLEGE—Bd. Regents West Texas Teachers State College, 3 story, 100 x 216 ft. educational building to have 50 x 100 ft. auditorium, to J. T. Taylor, 1st Natl. Bldg., Ft. Worth, $210,976. Noted Nov. 3.

Calif., Los Angeles—MUSEUM—Supervs. Los Angeles Co., Unit 2, Museum of History, Art and Science, 3 and 4 story, 143 x 173 ft., rein.-con. and brick, Exposition Park, to Clinton Constr. Co., 639 South Spring St., $612,800. Noted Oct. 20.

Federal Government Work

Proposed Work

Pa., Phila.—Repairs—U. S. Engineer Office plans repairing floating plant U. S. Dredge "Delaware."

Fla., Pensacola—Compass House and Pigeon Loft—Spec. 5468—Bureau Yards & Docks, Navy Dept., Wash., D. C., cancelled bids to have been opened Dec. 14, compass house and pigeon loft at Naval Air Station, here. Noted Dec. 1.

Tenn., Memphis—Heating System—Constructing Quartermaster rejected bids Oct. 14, heating system, in superintendents lodge at National Cemetery, here. Noted Oct. 6.

Mich., Windmill Point (mail Burch Run)—HOSPITAL—Treas. Dept., at office Supervising Archt., Wash., D. C., had plans prepared 3 story and basement, rein.-con., brick and steel, plain foundation, Jefferson Ave., here. J. A. Wetmore, Wash., D. C., superv. archt.

Texas—Dredging—U. S. Engineer's Office, J. W. Schley, major, Trust Bldg., Galveston, plans improving channels in Sabine River from Sabine to Corpus Christi, $1,476,000; dredging in Galveston Bay channel, $887,500; also dredging and widening channel from Aransas Pass to Corpus Christi, $304,600.

Texas—Dredging—U. S. Engineer Office, Galveston, making surveys deepening and widening channel between Corpus Christi and Port Aransas.

Calif., Mare Island—Refrigerating Equipment—Spec. 5521—Office Pub. Wks. Officer, Navy Yard, plans automatic refrigerating equipment for existing refrigerator at Navy Yard.

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Bids Desired

Mass., Bedford—Deep Well Pumps—Jan. 3, by U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., three deep well pumps at U. S. Veteran's Hospital, here.

N. Y., Madison Barracks (mail Sacket Harbor)—Sewer—Dec. 22, by Constructing Quartermaster, outfall sewer and manhole.

N. Y., New York—Fire Alarm System—Jan. 3, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., fire alarm system, for U. S. Veterans Hospital 81 (Bronx Boro), here.

N. Y., St. George—Radio-Compasses—Dec. 22, by Supt. Lighthouses, 4 radio-compasses (direction finders) on lighthouse tenders.

D. C., Wash.—Steel Masonry Plates, etc.—Dec. 19, by A. W. Flint, genl. purch. officer Panama Canal, structural steel masonry plates, columns, beams, trusses and braces, ceiling framing and furring channels, Schedule 1846.

Va., Arlington—Water Circulating System—Jan. 4, by Bureau Yards & Docks, Navy Dept., Wash., D. C., water circulating system, at Naval Air Station, here.

N. C., Fort Bragg—Water Supply System—Dec. 27, by Constructing Quartermaster, 19,750 ft. 4- to 6-in. c.i. water pipe, valves, etc. for water supply system at Fort Bragg; adv. E. N.-R., Dec. 15.

Fla., Key West—Remodeling—Dec. 30, by Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling marine hospital, here.

Ala., Montgomery—Barges—Jan. 3, by U. S. Engineer Office, constructing two 80 ft. creosoted wooden decked barges; adv. E. N.-R. Dec. 15.

Tenn., Memphis—Pontoons, etc.—Jan. 3, by District Engineer Mississippi River Dredging Dist., 80 steel pontoons, and 40 lengths 18 in. steel pontoon pipe; also 18 in. and 20 in. single suction dredging pumps; adv. E. N.-R. Dec. 15.

Tenn., Nashville—Office, etc.—Jan. 4, by Treas. Dept., at office Supervising Archt., Wash., D. C., new office, etc. in west attic wing at U. S. Post Office and Court House, here; adv. E. N.-R. Dec. 15.

Ky., Louisville—Piles—Dec. 17, by U. S. Engineer Office, steel sheet piles, incl. taper piles, 3 and 4 way junction piles, and corner piles.

Ill., Chicago—Lighting Fixtures—Dec. 27, by Treas. Dept., at office Supervising Archt., Wash., D. C., lighting fixtures to U. S. Post Office, here; adv. E. N.-R. Dec. 15.

Ill., Dwight—Refrigerating Plant, etc.—Dec. 29, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., completing refrigerating plant in basement and first stories main building at U. S. Veterans' Hospital 53, here.

Ark., Hot Springs—Barrack—Jan. 5, by Construction Quartermaster, constructing barracks, addition, etc. at Army & Naval General Hospital, Hot Springs Natl. Park, here.

Tex., San Antonio—Bank—Dec. 21, by A. B. and R. M. Ayres, archts., Bedell Bldg., 2 story and basement, 60 x 80 ft., rein.-con., brick and stone, plain foundation, Villita and Navarro Sts., for Federal Reserve Bank, c/o C. C. Walsh, chn., Dallas. Noted Dec. 1.

Wash., Tacoma—Dredging—Dec. 28, by U. S. District Engineer's Office, Burke Bldg., Seattle, dredging 8,500 cu.yd. material from channel entrance city waterway, here. Noted Dec. 1 under "Seattle."

Ore., Salem—Warehouse, etc.—Jan. 5, by U. S. Property & Disbursing Officer, general warehouse, administration building, mess halls, etc., at Camp Clatsop, here.

Calif., Fort Mason (mail San Francisco)—Gasoline and Oil Storage Station—Dec. 21, by Constructing Quartermaster, Fort Mason, gasoline and oil storage station incl. four 9 x 21 ft. steel tanks, pump house, 2 pumps and motors, here. Noted Dec. 1

Alaska, Juneau—Piers—Dec. 31, by U. S. Engineer Office, constructing piers for navigation aids, in Wrangell Narrows, here.

T. H., Pearl Harbor—Oil Purification Plant—Spec. 5517—Feb. 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., diesel oil purification plant, incl. steel tanks, for oil storage and sludge, motor driven horizontal and vertical centrifugal pumps, motor driven rotary pump, etc.

Bids Received

Pa., Gettysburg—Comfort Station—Constructing Quartermaster, Nov. 30, comfort station, here, from F. A. M. DeGroot, Harrisburg, $7,781 (10 to 150 days).

Del., Bethany Beach—Mess Halls, etc.—U. S. Property & Disbursing Officer, Wilmington, 13 mess halls, 1 administration building, 1 storehouse, 1 power house, etc., here, from S. Pasquale, 9 Stedman St., Boston, Mass., $44,300. Noted Nov. 24.

D. C., Wash.—Excavation, etc.—Treas. Dept., at office Supervising Archt., Dec. 8, excavation, etc., for Agriculture Building, from English Constr. Co., 15 West 91st St., New York City, $77,500. Noted Dec. 1.

D. C., Wash.—Memorial—Pub. Buildings & Pub. Parks, Navy Bldg., 60 x 120 ft. steel and marble memorial building, 17th and E Sts., from C. H. Tompkins & Co., 1612 Park Rd., Vermont marble $530,000, or Georgia marble $539,000. Noted Nov. 3.

W. Va., Williamson—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., Dec. 8, constructing U. S. Post Office and Court House, here, from Virginia Eng. Co., Newport News, Va., $146,648 alt. $3,070. Noted Nov. 10.

Mich., Mt. Clemens—Water Distribution System—Constructing Quartermaster, water distributing system, at Selfridge Field, here, from V. DeKetelaere, 219 North Walnut St., $13,403.

Tex., Fort Sam Houston (sta. San Antonio)—Barracks—A. W. Parker, Quartermasters Corp., Fort Sam Houston, Dec. 7, infantry and regimental barracks, from Walsh & Burney, 928 North Flores St., San Antonio, $283,330 and $200,803 respectively; and from D. D. Thomas, 463 North Dunlap St., Memphis, Tenn., $283,000 and $200,000 respectively. Noted Nov. 3.

Wash., Ellensburg—Earthwork, etc.—Bureau Reclamation, E. Mead, comr., Dec. 6, Schedule 1, Kittitas High Line Canal, from Meyers Co., Portland, Ore., $217,030; Schedule 2, from General Constr. Co., Spokane Savings & Loan Bldg., Spokane, $128,230; Schedule 3, from Rumsey & Jordon, Seattle, $284,884; and Schedule 4, from Utah Constr. Co., McIntyre Bldg., Salt Lake City, Utah, $144,935. Noted Nov. 10.

Calif., San Diego—Distributing System—Spec. 5497—Bureau Yards & Docks, Navy Dept., Wash., D. C., Dec. 7, distribution system, at Naval Operating Base (Hospital), here, from H. Lawson, 465 Tehama St., San Francisco, $40,320. Noted Nov. 24.

Contracts Awarded

Me., Caribou—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., U. S. Post Office, here, to English Constr. Co., 15 West 91st St., New York City, $54,600. Noted Nov. 24.

Mass., Boston—Garage—Treas. Dept., at office Supervising Archt., Wash., D. C., 3 story, 115 x 300 ft., rein.-con. and steel, plain foundation, at U. S. Post Office, Ipswich St., to C. W. Hanson, 41 Maiden Lane, New York City, $61,500. Noted Oct. 24.

Mass., Camp Devens—Barracks—Constructing Quartermaster, 1 infantry battalion and 1 infantry regimental barracks, here, to Van Asdlen Constr. Co., Inc., Stock Exch. Bldg., Phila., Pa., $459,846, add heating $44,160. Noted Dec. 8.

N. Y., Brooklyn—Sprinkler System—Spec. 5418—Bureau Yards & Docks, Navy Dept., Wash., D. C., extending sprinkler system, at Navy Yard, here, to H. G. Vogel Co., 15 West 37th St., New York City, $3,488. Noted Nov. 17.

N. Y., New York—Garage—Treas. Dept., at office Supervising Archt., Wash., D. C., constructing garage at U. S. Quarantine Station, here, to W. D. Moore's Son, 554 67th St., Brooklyn, $10,191. Noted Dec. 1.

N. J., Lakehurst—Mooring Mast—Spec. 5510—Bureau Yards & Docks, Navy Dept., Wash., D. C., mobile mooring mast at Naval Air Station, here, to Tippett & Wood, Inc., 162 Howard St., Phillipsburg, $27,850. Noted Dec. 1.

Fla., Pensacola—Fill—Spec. 5539—Bureau Yards & Docks, Navy Dept., Wash., D. C., fill at Naval Air Station, here, to Thompson & Meseley. Box 2043, Tampa, at $0.19 per cu.yd. Estimated cost $5,700.

Ala., Montgomery—Quarters—Constructing Quartermaster, Maxwell Field, 13 noncommissioned officers quarters and utilities at Maxwell Field, here, to Jeffers Bros., 207½ Dexter Ave., $59,750. Noted Oct. 20.

La., New Orleans—Levee—U. S. Engineer Office, Vick Crevasse Levee, in Saline Levee Dist., to McWilliams Co., Inc., Carondolet Bldg., $43,662.

Tenn., Johnson City—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here, to C. Weitz sons, 713 Mulberry St., Des Moines, Ia., $16,749. Noted Dec. 1.

Ark., Hot Springs—Steam Distribution System—Constructing Quartermaster, Army and Navy General Hospital, outside distribution system of heating system, to J. L. Powers, Bennettsville, S. C., $16,900. Noted Nov. 24.

T. H., Pearl Harbor—Generating Plant Equipment, etc.—Spec. 5481—Bureau

Federal Government Work (Continued)

Yards & Docks, Navy Dept., Wash., D. C., steam generating plant equipment and piping at Submarine Base, here, to Grace Bros. & Co., P. O. Box 78, Honolulu, $18,990. Noted Dec. 1.

T. H., Pearl Harbor — Refrigerating Plant—Spec. 5482—Bureau Yards & Docks, Navy Dept., Wash., D. C., refrigerating plant at Naval Operating Base (Submarine Base), here, to Von Hamm-Young Co. Ltd., P. O. Box 2630, Honolulu, $14,175 (90 days). Noted Dec. 1.

Unclassified

Proposed Work

Playstead and Stadium—Boston, Mass. —City, Park Dept., 33 Beacon St., W. P. Long, chn., plans enlarging playstead and stadium, 2,500 seating capacity, etc. in meadow behind of Fine Arts, Back Bay Dist. To exceed $25,000.

Stadium—Brighton (Boston P. O.), **Mass.** —Harvard Athletic Assn., W. J. Bingham, dir., 399 Harvard St., Cambridge, had preliminary sketches made by G. Haddon, 607 5th Ave., New York City, concrete and timber addition, 26,000 seating capacity. $25,000. Engineer not selected.

Comfort Station—Dorchester (br. Boston), Mass.—City of Boston, Park Dept., 33 Beacon St., plans concrete comfort station in Town Field. $50,000. W. P. Long, chn. Park Dept.

Stadium—Lowell, Mass.—Lowell Post 87, American Legion, J. M. Dineen, commander, plans stadium. $25,000 or more. Engineer and architect not selected.

Golf Course—Shrewsbury, Mass.—Hillswold Club, Inc., W. E. Stiles, pres., plans 36 hole golf course. Cherry St. Section. $25,000 or more. Stiles & Van Kleek, 97 Newbury St., Boston, archts.

Grade Crossings—New York—Pub. Serv. Comn. of New York, Albany, plans eliminating 203 grade crossings in 51 counties, outside of Greater New York, during 1928. $30,867,700.

Grade Crossing Elimination—New York —New York Transit Comn., 270 Madison Ave., New York City, plans eliminating grade crossing over Long Island R.R. tracks, at Corona $1,000,000, Springfield $1,400,000, St. Albans $600,000, and Rockaway Park to Arverne $7,000,000; and over New York Central R.R. tracks at West 79th St. $250,000, West 96th St. $350,000, and West 158th St. $280,000, in New York City. Grand total $10,780,000.

Parks, etc.—Woodbury, N. J.—Plans 5 parks and lakes. $50,000. J. O. Carter, 48 Cooper St., engr.

Baseball Park—Akron, O.—Akron Central League Baseball Club, c/o Osborn Eng. Co., archts. and engrs., 7016 Euclid Ave., Cleveland, having preliminary plans prepared 1 story, steel baseball park, here.

Docks—East Chicago, Ind.—W. G. Hogan, Natl. Terminals Co., 240 South Pennsylvania St., Indianapolis, making preliminary plans giant docks along the Indiana Harbor Canal in Calumet Dist. $2,000,000. Private plans.

Pier—Muskegon, Mich.—West Michigan Core Sand Co. plans timber and pile pier with conveyors, 60 ft. piling, for loading sand. $150,000. R. Love, Union Bank Bldg., engr.

Swimming Pool — Grosse Ile, Mich. — Owner, c/o H. F. Stanton, archt., 2231 Park Ave., Detroit, having plans prepared 36 x 72 ft. rein.-con. swimming pool, with 1 and 2 story concrete and limestone building. $30,000.

Docks, etc.—Burlington, Ia.—City Clerk takes bids about Jan. 10, timber dock, 100 x 170 ft. fireproof dock house, 5,000 ft. double track railroad, escalator, and 50 x 215 ft. steel wharf barge. $220,000. W. F. Schultz Eng. Co., Shrine Bldg., Memphis, Tenn., engrs. Noted Nov. 24.

Turbine Generator—Alexandria, Minn.—City H. S. Campbell, clk., plans one 750 kw. turbine generator, condenser and 10 ton traveling crane, etc. in power plant addition. $50,000.

Tourist Camp—San Antonio, Tex.—Hot Wells Tourist Park Co., c/o C. Dubose, 102 East Huisache St., purchased site and plans tourist center, incl. water, sewers and buildings, etc., at Hot Wells, on south side city. $100,000.

Swimming Pool—Cushing, Okla. — City making preliminary plans swimming pool. $30,000. G. Estey, Cushing, engr.

Traffic Control System—Oklahoma City, Okla.—Voted $50,000 bonds, traffic control system. M. Peshek, city clk.

Under Pass, etc. — Shawnee, Okla. — Made preliminary plans new under pass and viaduct at Santa Fe R.R. crossing in east section city, $45,000. E. T. Archer & Co., 612 New England Bldg., Kansas City, Mo., consult. engrs.

Swimming Pool, etc.—Bakersfield, Calif. —Kern Co., F. E. Smith, clk., plans swimming pool, landscape work, etc. at Kern River Park. To exceed $25,000.

Lighting System—Berkeley, Calif.—Plans extending lighting system in various streets. $25,000. F. B. Rae, city electrical engr.

Stadium—Berkeley, Calif. — Regents of University of California, making estimates enlarging California Memorial Stadium, approximately 27,500 seating capacity.

Lighting System—Oakland, Calif.—City plans approximately 30 mi. lighting system on downtown streets. $1,000,000 or more. G. N. Randle, city engr.

Airport—San Diego, Calif.—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Lumber Terminal—San Francisco, Calif. —State Bd. Harbor Comrs., Ferry Bldg., plans wharves, docks, etc. for lumber terminal. To exceed $250,000. F. G. White, Ferry Bldg., engr.

Pier—San Francisco, Calif.—California State Bd. Harbor Comrs., Ferry Bldg., had plans prepared 360 x 700 ft. pier, concrete pile and deck apron of creosoted pikes, Channel St. $1,000,000. F. G. White, Ferry Bldg., engr.

Stadium — San Francisco, Calif — City and San Francisco Co., making estimates enlarging Kezar Stadium, 25,000 seating capacity. To exceed $25,000. M. M. O'Shaughnessy, city engr.

Transit Shed, Wharf, etc.—San Pedro, Calif.—Harbor Comn., plans 120 x 256 ft. steel transit shed with 80 x 195 ft. wharf addition, Berth 174; also removing old wharf, timbers, and old piles, placing new creosoted piles, new concrete footings, and new frame deck, etc., Berth 90. G. F. Nicholson, Berth 90, engr.

Elevators and Terminals — Canada — Western Canada Grain Pool, Winnipeg, Man., plans 100 elevators and terminals in Alberta, 150 in Saskatchewan, and 40 in Manitoba. $5,000,000.

Bids Desired

Athletic Field—Brooklyn, N. Y.—Dec. 21, by C. E. Dobbin, acting supt. School Buildings, Flatbush Ave. extension and Concord St., general contract Boy's High School Athletic Field and grand stand, Maple St. from Troy to Schenectady Aves., for Bd. Educ., 500 Park Ave., New York City. Former bids rejected. Noted Oct. 27.

Subway—Brooklyn, N. Y.—Dec. 30, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, constructing Sect. 11, Route 107, under and along Manhattan Ave. from Nassau Ave. to Green St., here.

Borings — Buffalo, N. Y. — Dec. 20, by A. E. Smith, governor and chn. State Office Site & Building Comn., Capitol, Albany, test borings for state office building, here; adv., E. N.-R. Dec. 15. Noted Mar. 17 under "Buildings—Commercial."

Hangar — Buffalo, N. Y. — Dec. 20, by J. P. Moore, comr. Dept. Parks & Pub. Buildings, City and County Hall, Hangars 4 and 5, and boiler plant, all brick, at Buffalo Airport, Genesee St. and Cayuga Rd.

Station Finish—Phila., Pa.—Dec. 21, by Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., finish for City Hall Station, Broad Street Subway, Contr. 180.

Field House—Wash., D. C.—Dec. 19, by District Comrs., District Bldg., field house, at Virginia Ave. Playground.

Oil Pipe Line—Illinois, Missouri, Texas and Oklahoma—See "Contracts Awarded."

Gas Pipe Line—Texas—See "Contracts Awarded."

Natural Gas Pipe Line—Texas—Southern Gas Co., c/o Frost Bldg., San Antonio, taking bids 109 mi. 10 in. gas pipe line from New Braunfels to Austin and loop around Austin. $600,000. Private plans.

Rolling Doors—Oakland, Calif.—G. B. Hegardt, city port mgr., taking new bids 62 steel rolling doors for pier shed. Former bids rejected.

Stadium—Sacramento, Calif.—Trustees Sacramento Jr. College Dist., taking bids rein.-con. stadium, on campus. Dean & Dean, California State Life Bldg., archts. Noted June 30.

Dry Dock—Esquimalt, B. C.—Jan. 3, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., constructing Esquimalt Dry Dock, Nanaimo Dist., here. $150,000.

Contracts Awarded

Arena — Hartford, Conn. — Hartford Auditorium, Inc., George Geran Hotel Bond, 2 story, 200 x 325 ft., brick, steel and rein.-con., 10,000 seating capacity, Stonington St., to Austin Co., 120 Bway., New York City. Archts. est. $400,000.

Pier—Baltimore, Md.—J. E. Greiner Co., engrs., Lexington Bldg., substructure 216 x 873 ft. pier, McComas St., to Merritt, Chapman & Scott, 17 Battery Pl., New York City, N. Y. $896,150. Noted Nov. 10.

Oil Pipe Line—Illinois, Missouri, Oklahoma and Texas—Ozark Pipe Line Corp., Shell Bldg., St. Louis, Mo., will construct 10 in. oil line from Chicago, Ill. to Cushing, Okla., replacing 6 in. with 10 in. line from Cushing to Healdton, Okla. and new 10 in. line from Healdton, Okla. through North and Central West Texas to Pecos fields, and install pumping stations about every 100 mi., by own forces. Private plans.

Coke Ovens, etc.—Duluth, Minn.—Zenith Furnace Co., foot 58th Ave., 41 coke ovens, to Koppers Co., Union Trust Bldg., Pittsburgh, Pa.; and two 10 ton coal handling bridges, to Industrial Brownhoist Co., 4403 St. Clair Ave., Cleveland, O.

Culverts, etc.—Hays, Kan.—Ellis Co., 15.713 mi. culvert and 4 bridges on U. S. 40-S, Project 59, to T. Jacobs, Hays, $11,533 and $12,279 respectively.

Gas Pipe Line—Texas—Galveston Gas Co., 2422 D St., Galveston, will build 8 mi. 8 in. gas pipe line from Texas City Junction to Galveston. $40,000. Private plans.

Lighting System — Santa Ana, Calif. — Ornamental lighting system, on portion Bway., to Walker & Martin, 4215 South Western Ave., Los Angeles, $26,590.

Wharf—Sydney, N. S.—Dept. Pub. Wks., Ottawa, Ont., wharf, here, to Cooke Constr. Corp., 10 Cathcart St., Montreal, Que., $59,755.

Materials

Bids Desired

Granite—Dorchester (sta. Boston), **Mass.** —Dec. 22, by Transit Dept., 1 Beacon St., Boston, granite for entrance and exit building, Ashmont Sta., Dorchester Rapid Transit, here. $5,000.

Sewer Pipe—Providence, R. I.—Dec. 19, by Bd. Contr. & Supplies, various sized sewer pipe and special castings.

Paving Blocks—New York, N. Y.—Dec. 19, by P. J. Dooling, comr. Purchase, Municipal Bldg., granite and creosoted wood paving blocks to Dept. Plant & Structures.

Cable—Newark, N. J.—Dec. 17, by W. J. Brennan, dir. Pub. Safety, City Hall, approximately 42,875 ft. (more or less) No. 14 multi conductor rubber, lead-covered fire alarm cable.

Track Bolts, Spikes, Tie Plates, etc.—Phila., Pa.—Dec. 23, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., track bolts, spikes, tie plates, etc. Contr. 131-1927; compromised joints and guard rail clamps, Contr. 132-1927; boiler tubes, Contr. 133-1927; and axles, Contr. 134-1927.

Pipe—Baltimore, Md.—Dec. 21, by Bd. Awards, 150,000 lb. ¾ in. and 25,000 lb. 1 in. copper pipe to Bureau Water Supply. E. G. Rost, City Hall, water engr.

Concrete Sand, etc.—New Orleans, La.—Sewerage & Water Bd.; 526 Carondelet St., taking bids 4,000 cu.yd. concrete sand, $4,000; 8,000 cu.yd. washed gravel, $12,000; and 10,000 lb. cement, $18,000. G. G. Earl, 526 Carondelet St., engr.

Piling—Minneapolis, Minn.—Dec. 23, by F. S. Gram, city purch. agt., 1,000 pieces 24-30 ft. piling for Dept. Sewers. N. W. Elsberg, city engr.

Posts and Cable—Tipton, Okla.—City in market 12 "White Way" posts and 2,500 ft. armored cable. G. R. Phelps, mayor.

Pipe, etc. — Santa Ana, Calif. — E. L. Vegely, city clk., taking bids and opens same about Dec. 20, 3,900 ft. 8 in. and 1,000 ft. 6 in. c.i. pipe, gate valves, etc.

Contracts Awarded

Maintenance Materials — Oregon — State Hy. Comn., Salem, maintenance materials for California Highway, Wasco Co., to J. W. and J. R. Hillstrom, Marshfield, $41,950; and for John Day Highway, Gilliam and Wheeler Counties, to H. E. Schmeer, Portland, $43,831.

See proposal advertising on page 120

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Keen Competition for Interesting Supplementary Sewer Contract in New Jersey

Section IV of the supplementary joint trunk sewer being constructed in Union and Essex Counties, N. J., 4 mi. long and of pre-cast concrete 30- to 42-in., has just been awarded for $209,380.10.

In general the supplementary sewer (20 mi. and 12- to 81-in.) parallels an existing sewer built in 1903. Its purpose is to supplement the capacity of the old one, so that the combined capacity will meet the needs of the tributary area of the following municipalities until 1950: City of East Orange; Township of Hillside; Town of Irvington; Township of Maplewood; Township of Millburn; City of Newark; Borough of Roselle Park; Village of South Orange; City of Summit; Township of Union and Town of West Orange; Union and Essex Counties.

The supplementary sewer is designed to carry 100,000,000 gal. of sewage per day, with the sewer running 0.7 full, which capacity is regarded as sufficient for a population of 350,000. The point of discharge is in the Arthur Kill near Elizabeth, N. J.

In general the trunk sewer consists of a main stem, extending from Summit southwesterly through Elizabeth to the outlet, and two branches. One branch runs northeasterly through Irvington toward East Orange and Newark, and the other northeasterly through Maplewood and South Orange to West Orange.

The construction of the supplementary sewer is divided into five separate sections. Section V, the branch through Irvington to East Orange and Newark, has been under construction since July, 1927. Section III, that portion of the main stem which connects Sections IV and V has been under construction since August, 1927.

SPECIAL FEATURES OF SECTION IV THAT AFFECT COST

Section IV, located in the valley of the East Branch of the Rahway River, has several features that are interesting because of their effect on construction cost. One of these is the location of the sewer with respect to the river. For considerable part of its length, it is close to the river, below the river bed, and crosses under it at three different places.

Another feature is the construction of the sewer through a golf course in Maplewood. In order to secure a right-of-way from the golf club it was necessary to incorporate in the specifications the most stringent requirements as to the handling of the work during construction, and the restoration of the golf course after the sewer was finished. One of these requirements was that the work should be done during the winter months, when it would interfere least with the use of the course.

(Concluded on page 306a)

	A	B	C	D	E	F	G	H	I
300 cu.yd. Class "A" rock excav., depth 0-10 ft.	$7.00	$6.00	$5.00	$4.50	$6.50	$5.00	$8.00	$4.00	$6.00
600 cu.yd. Class "A" rock excav., depth more than 10 ft.	8.00	7.00	6.00	5.00	7.00	6.00	10.00	5.50	10.00
300 cu.yd. Class "B" rock excav., depth 0-10 ft.	6.00	5.50	5.00	4.50	5.00	3.00	3.00	3.50	4.00
400 cu.yd. Class "B" rock excav., depth more than 10 ft.	7.00	7.00	6.00	5.50	5.50	4.00	3.50	4.00	5.00
3,500 cu.yd. Class "C" quicksand, depth 0-10 ft.	5.50	5.00	4.50	5.00	5.50	6.00	6.00	4.00	9.00
200 cu.yd. Class "C" quicksand, depth more than 10 ft.	7.00	8.00	6.00	8.00	7.00	8.00	7.00	6.00	12.00
27,700 cu.yd. Class "D" earth excav., depth 0-10 ft.	1.00	1.00	2.20	0.90	1.50	1.50	2.00	2.12	4.50
1,700 cu.yd. Class "D" earth excav., depth more than 10 ft.	2.00	4.00	3.00	2.25	2.50	3.00	5.00	3.50	5.00
800 cu.yd. embankment	2.00	3.00	0.75	1.50	3.00	3.00	2.00	1.50	1.00
8,000 lin.ft. underdrains	0.25	0.50	0.35	0.25	0.20	0.50	0.25	1.75	0.30
110 M ft. B.M. untreated timber	60.00	40.00	35.00	75.00	80.00	40.00	100.00	75.00	50.00
5 M ft. B.M. creosoted timber	150.00	200.00	150.00	75.00	200.00	200.00	125.00	125.00	100.00
3,500 sq.yd. temporary pavements	0.50	1.00	0.50	0.90	0.80	1.50	2.00	1.75	0.60
1,000 sq.ft. sidewalks	0.30	0.40	0.25	0.30	0.30	0.30	0.25	0.30	0.30
50 cu.yd. class "B" conc	20.00	30.00	18.00	15.00	17.00	25.00	20.00	20.00	18.00
300 cu.yd. Class "C" conc	15.00	20.00	13.00	12.00	16.00	20.00	15.00	18.00	16.00
300 cu.yd. Class "D" conc	12.00	15.00	12.00	12.00	15.00	15.00	13.00	15.00	15.00
3,000 lb. steel reinforcement	0.10	0.10	0.06	0.10	0.07	0.08	0.10	0.10	0.06
2,600 lin.ft. 42 in. sewer, 0-8 ft. deep	5.93	6.00	5.80	7.50	6.25	6.00	6.00	6.50	8.00
550 lin.ft. 42 in. sewer, 8-12 ft. deep	5.93	6.25	6.00	8.50	6.25	6.25	7.00	6.75	8.50
400 lin.ft. 42 in. sewer, 12-16 ft. deep	5.93	6.50	6.25	10.50	6.50	7.00	7.00	7.00	10.00
840 lin.ft. 36 in. sewer, 0- 8 ft. deep	4.80	5.00	4.50	5.50	5.00	5.25	4.50	6.00	7.50
270 lin.ft. 36 in. sewer, 8-12 ft. deep	4.80	5.50	4.75	7.00	5.50	6.00	5.00	6.25	8.00
5,510 lin.ft. 33 in. sewer, 0- 8 ft. deep	4.45	4.00	4.00	6.25	4.50	4.50	4.00	4.75	7.00
2,270 lin.ft. 33 in. sewer, 8-12 ft. deep	4.45	4.25	4.25	6.50	4.50	4.75	4.00	5.00	7.30
140 lin.ft. 33 in. sewer, 12-16 ft. deep	4.45	4.50	4.45	7.50	4.50	5.50	5.00	5.25	7.50
70 lin.ft. 33 in. sewer, 16-20 ft. deep	4.45	5.00	4.75	8.00	4.75	6.50	5.00	5.50	8.00
120 lin.ft. 33 in. sewer, 20-24 ft. deep	4.45	5.50	5.00	9.00	4.75	7.00	6.00	5.75	9.00
100 lin.ft. 33 in. sewer, 24-28 ft. deep	4.45	6.00	5.50	11.00	5.00	7.00	10.00	6.00	10.00
570 lin.ft. 30 in. sewer, 0- 8 ft. deep	3.73	3.50	3.50	4.00	3.50	3.70	4.00	4.25	4.50
4,410 lin.ft. 30 in. sewer, 8-12 ft. deep	3.73	3.75	3.70	4.00	3.75	3.80	4.00	4.40	5.00
1,090 lin.ft. 30 in. sewer, 12-16 ft. deep	3.73	4.00	3.85	7.00	4.00	4.00	4.00	4.75	5.50
60 manholes, depth 0-10 ft.	100.00	100.00	95.00	110.00	100.00	100.00	100.00	100.00	100.00
35 ft. extra depth of manholes	20.00	20.00	15.00	20.00	15.00	20.00	20.00	10.00	6.00
10 ft. drop manholes	15.00	10.00	10.00	20.00	25.00	15.00	20.00	10.00	15.00
3 recording gage manholes	200.00	250.00	100.00	275.00	175.00	300.00	200.00	125.00	200.00
25 lock manhole covers	25.00	5.00	6.00	25.00	15.00	10.00	25.00	5.00	25.00
2 junction manholes	500.00	200.00	300.00	500.00	175.00	1,000.00	350.00	150.00	50.00
50 tee branches	2.00	5.00	3.50	10.00	6.00	5.00	15.00	3.00	5.00
175,000 sq.ft. bituminous coating	0.05	0.05	0.04	0.02	0.04	0.06	0.05	0.05	0.10
500 cu.yd. broken stone	8.00	7.00	5.50	5.00	7.00	5.00	4.00	5.00	3.50
36 lin.ft. 42 in. Class "A" cast iron pipe	22.00	25.00	20.00	30.00	21.00	25.00	15.00	15.00	25.00
384 lin.ft. 36 in. Class "A" cast iron pipe	17.00	20.00	18.00	20.00	18.00	20.00	10.00	12.00	23.00
72 lin.ft. 30 in. Class "A" cast iron pipe	15.00	15.00	15.00	20.00	18.00	17.50	10.00	10.00	16.00
50 cu.yd. rubble masonry	20.00	25.00	12.00	20.00	12.00	25.00	8.00	18.00	12.00
50 cu.yd. rip rap	15.00	12.00	12.00	10.00	6.00	20.00	8.00	15.00	11.00
700 cu.yd. top soil	3.00	3.00	1.00	1.25	4.00	2.50	2.00	4.00	2.00
8,000 sq.yd. seeding	0.10	0.25	0.45	0.25	0.50	0.50	0.05	0.10	0.50
300 sq.yd. restoring roadway	3.00	2.00	0.50	2.00	2.50	3.00	2.00	2.25	2.50
300 sq.yd. restoring parking area	3.00	2.00	1.00	2.00	2.50	3.00	2.00	2.25	2.00
300 sq.yd. restoring tennis courts	3.00	2.00	0.40	1.00	2.00	2.00	5.00	1.50	1.00
Restoring Maplewood Club Property (lump sum)	500.00	500.00	500.00	1,000.00	3,000.00	2,000.00	8,000.00	1,000.00	5,000.00
Totals	$209,380	$214,667	$225,396	$228,222	$232,056	$241,116	$253,450	$258,668	$379,975

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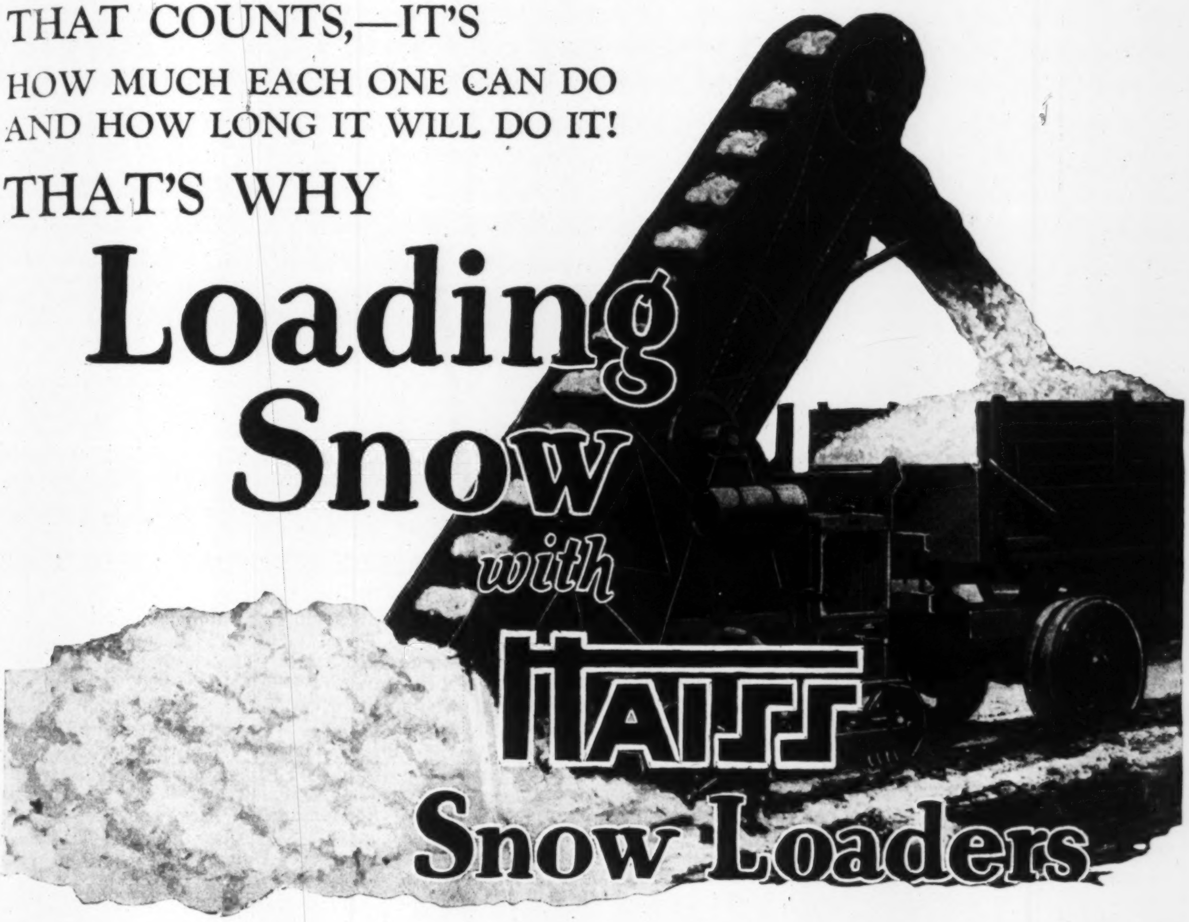
Constr. News page 306

UNIT PRICES Continued on Page 306a

IT ISN'T THE NUMBER OF LOADERS THAT COUNTS,—IT'S

HOW MUCH EACH ONE CAN DO
AND HOW LONG IT WILL DO IT!

THAT'S WHY



Loading Snow with HAISS Snow Loaders

IS SO MUCH FASTER AND MORE CERTAIN!

TRACTION — DIGGING POWER — CAPACITY—You must have all three for successful snow loading. And for practical economy you must have a machine of low upkeep.

TRACTION! DIGGING POWER! A Haiss Snow Loader doesn't shimmy at the snow pile. Its balanced weight — all massive strength—is put on sure-footed creeper treads that hold their ground and make the revolving propellers cut, dig, and chop into the toughest snowbank in the city.

CAPACITY! And a Haiss Snow Loader, with its slow speed, continuous crowding, never jumps away from the truck it's loading. The HAISS Self-Feeding Propellers will drive an enormous amount of snow right into the digging teeth of the big, high conveyor flights. THAT MEANS MORE TRUCK LOADS PER HOUR!

LOW UPKEEP! No flimsy, wabbly plaything, this Haiss Snow Loader, it's a "HE-MAN" machine that will load upward of 10 yards of snow per minute and keep at it all day long. Yet it's as easy to run as an automobile.

THAT MEANS FULL LOADS IN LESS TIME!

It will pay you to investigate the Haiss Snow Loader—the difference is obvious enough to make you marvel at its ability—even if you "know" snow loaders.

GEORGE HAISS MANUFACTURING CO., Inc.
140th Street and Rider Avenue NEW YORK, N. Y.

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

(Continued from page 306)

A third item which would be reflected materially in the cost of the work was the location of the supplementary joint trunk sewer with respect to the existing one. For about 80 per cent of the length of the new sewer, it is parallel to the old one, with from 9 to 12 ft. between the center lines of the two sewers. Moreover, the bottom of the new sewer is about one foot below that of the old one.

COMPARISON OF BIDS

That there was keen competition among the contractors for this work is evidenced by the fact that fifteen proposals were received, and that the spread between the lowest and eighth from lowest was only 24 per cent. A comparison of the bids submitted shows the following relationship:

Bid	Amount	Per Cent of Low Bid
Low bid	$209,380	100
Average of lowest five bids	221,945	106
Average of the 15 bids	271,620	130
High bid .. .	379,975	180

By class A rock excavation in the tabulation of bids is meant rock which can only be removed by blasting or other method of similar difficulty and expense. Class B rock excavation includes rock more easily removed and masonry. It is expected that, of the total excavation for Section IV, about 4 per cent will be rock, 11 per cent quicksand and remaining 85 per cent ordinary earth.

The sewers are to be reinforced concrete pipe, constructed of class A concrete of the proportion 1:1½:2½. The purpose of this rich mix was to secure a more impervious and durable concrete for the sewer. As a further precaution, the pipe is to be lined with a bituminous coating (Barrett's Protector or equal) in order to protect the concrete from the effect of the acids in the sewer gases.

The classes of concrete listed in the tabulation of bids are: B 1:2:4; C 1:3:5; D 1:3:6.

METHOD OF CONSTRUCTION

It is the plan of the Paulsen Construction Corp., New York, to whom the contract was awarded, to pursue the work right through the winter.

A portion of the work is through open territory, in which it is expected that frost will appear first and become deepest. Part of this is through the golf course. The contractor will undertake this portion at once so as to have it completed before severe weather arrives. Along another portion there is a growth of underbrush and small trees. Here, it is expected, the first snowfall that blankets the ground will be kept in place by the underbrush and keep the frost from striking very deeply into the ground. So the contractor will do this portion during the more severe winter months, when unable to work on the rest of the line.

The bidders are (A) Paulsen Construction Corp., 21 East 40th St., New York; (B) Pizzimenti Bros., 154 Madison Pl., Ridgewood; (C) R. F. Relly Contracting Co., 1459 Bushkill St., Easton, Pa.; (D) J. R. & M. C. Fusco, Inc., & Peter Scola, 11a Oxford St., Montclair, N. J.; (E) D. & M. Contracting Co., 2261 Millburn Ave., Maplewood; (F) Martin & Miller, Pitman; (G) Angelo Fastiggi, 62 Chestnut St., Montclair; (H) R. D. Thomas & Co., 7121 Jenkins Arcade, Pittsburgh; (I) J. F. Murphy Contracting Co., Inc., 236 West 116th St., New York; Spiniello Construction Co., 493 Monroe St., Orange, $276,108; P. D'Amato, 680 Broadway, Newark, $285,156; J. Cestone, 5 Cloverhill Pl., Montclair, $290,393; Pittsburgh Foundation Co., Keystone Bldg., Pittsburgh, $296,970; D. W. Davis & Sons, 19 Union St., Kingston, Pa., $306,882; Rosoff Bros., Inc., 1014 Gates Ave., Brooklyn, N. Y., $375,863. The unit bids of the eight lowest and highest bidders are given in the table on the preceding page.

Big Dalton Dam, Los Angeles County; 26,000 Cu.Yd. Excavation; 38,270 Cu.Yd. Concrete; 6,000 Tons Reinforcing

Ten contractors submitted bids ranging from $381,194 to $532,005, or 40 per cent, for constructing a reinforced concrete dam on Big Dalton Creek, Los Angeles Flood Control District. Double wall buttress multiple arch type, maximum height 165 ft., approximate length at crest 500 ft. County will furnish steel and cement.

The bidders are: (A) H. W. Rohl, 806 Roosevelt Bldg., (awarded contract); (B) Thomas Kelly & Son; (C) McDonald & Kahn; (D) Edwards, Wildey & Dixon; (E) Claude Fisher; (F) Lynch-Cannon Engineering Co.; (G) Bent Bros.; (H) W. A. Bechtel Co.; (I) Utah Construction Co.; (J) C. R. Ross Construction Co. The unit bids are as follows:

	A	B	C	D	E	F	G	H	I	J
6,500 cu.yd. excav. (class A)	$6.00	$6.00	$6.98	$7.00	$3.10	$5.65	$4.50	$5.00	$5.50	$5.00
19,500 cu.yd. excav. (class B)	2.50	3.50	3.15	2.65	3.10	3.50	3.50	3.50	3.00	4.00
10,470 cu.yd. conc. (class A)	8.00	7.10	10.25	11.00	10.25	10.00	10.00	9.00	11.00	10.50
12,000 cu.yd. conc. (class B)	5.80	7.10	8.27	8.85	8.40	8.90	10.00	9.00	11.00	9.75
15,800 cu.yd. conc. (class C)	5.80	6.50	6.05	5.45	7.75	7.00	7.20	9.00	7.00	9.50
1,200,000 lb. placing reinf. steel in trash racks	.015	.015	.0175	.015	.0175	.01	.0175	0.15	.015	.01
2,800 lin.ft. drilling grout holes up to 30 ft. depth	2.00	2.00	2.00	1.50	2.00	2.00	1.00	1.25	2.00	2.00
2,800 lin.ft. drilling grout holes up to 50 ft. depth	3.00	3.00	2.25	2.00	2.00	3.00	3.00	2.50	2.50	3.00
130 holes fitting pressure pipes in grout holes	2.00	10.00	10.00	3.00	1.00	3.00	1.00	3.00	2.00	1.00
500 cu.yd. pressure grouting	30.00	40.00	20.00	30.00	20.00	5.00	30.00	22.50	25.00	30.00
50,000 lb. placing outlet pipes	.01	.03	.015	.03	.0175	.02	.02	.03	.03	.02
60,000 lb. placing gates and valves	.01	.03	.015	.03	.0175	.0225	.02	.03	.03	.025
840 lin.ft. placing iron pipe hand rail	.10	1.00	.50	.50	.50	1.25	.50	.75	1.00	1.00
	$381,194	$426,927	$449,212	$451,565	$455,842	$459,365	$485,910	$489,250	$499,520	$532,005

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CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Sewer, Montreal, Que., plans submitting referendum to ratepayers in January, $20,000,000.

Grade crossing elimination, Syracuse, N. Y., Common Council plans, $20,000,000.

Railway, Oklahoma City, Okla., City voted bonds for purchasing right of way and elevating tracks, $4,000,000. Rock Island R.R. Co. and Frisco Lines plan two passenger stations, $10,000,000.

Excavation, Cleveland, O., City and Bd. Comrs. Cuyahoga Co. making plans straightening Cuyahoga River, $6,000,000.

Power plant, Estevan, Sask., Northern Light and Power Co., Bismarck, N. D., plans, $5,000,000.

Hotel, Jersey City, N. J., Universal Securities Co. having plans prepared, $5,000,000.

University, Los Angeles, Calif., Los Angeles Lutheran University having preliminary plans prepared, $5,000,000.

Gas pipe line, Texas, Frank Pickrell & Associates making surveys and plans, $5,000,000.

City Hall, Camden, N. J., Bd. Freeholders Camden Co. having plans prepared, $3,000,000.

Paper mill, St. Helens, Ore., C. R. McCormick Lumber Co. plans, $3,000,000.

Station, Tulsa, Okla., City voted bonds, $1,250,000, its share for union station. Total est. $3,000,000.

College, Cleveland, O., Western Reserve University plan group of buildings, $2,500,000.

Police and fire telephone signal, Montreal, Que. Plans submitting referendum to ratepayers in January, $2,000,000.

Incinerators, Montreal, Que. Plans submitting referendum to ratepayers, $1,700,000.

High school, Brighton, Mass., City of Boston takes bids about Jan. 5, $1,539,000.

Hotel, Windsor, Ont., Greater Windsor Development Co. having plans prepared, $1,500,000.

Stores, Honolulu, T. H., Dillingham Co. having preliminary plans prepared, $1,250,000.

Bids Desired

Court House, Providence, R. I., Jan. 10, by Providence County Comn. $3,500,000.

Plant, Ft. Worth, Tex. Jan. 22 by Montgomery Ward & Co. $2,000,000.

Contracts Awarded

Steam power plant, Deep Water Point, N. J., Amer. Power Corp. and Amer. Gas & Electric Co. to Stevens & Wood, Inc. Engrs. est. $10,000,000-$11,000,000.

Subway, Long Island City, N. Y., Bd. Transportation to Atwell, Gustin & Morris Co., New York City, $5,198,284.

Office, New York, N. Y., Courtley Realty Corp. will build by separate contracts, $3,500,000.

Power plant, Alabama City, Ala., Gulf States Steel Co. to Dwight P. Robinson, Inc., New York City, $3,000,000.

Store Oakland, Calif., H. C. Capwell Co., to P. J. Walker Co., San Francisco approximately $3,000,000.

Railway, Kentucky and Virginia, Louisville & Nashville R.R. Co. to W. W. Boxley & Co., Roanoke, Va., $2,500,000.

Hotel, Halifax, N. S., Lord Nelson Hotel Co. to H. L. Stevans & Co. Toronto Ont. Archts. est. $1,250,000.

Garage, New York, N. Y., Kent Automatic Parking Garage, Inc., to F. T. Ley Co. Archts. est. $1,250,000.

Bridges, Chicago, Ill., City, substructure to Fitzsimmons-Connell Dredge & Dock Co., $491,105; superstructure, to Ketler-Elliott Co., $480,000; substructure West Taylor St. to Central Dredging Co., $138,444. Total, $1,109,549.

News of the Week

Waterworks

Proposed Work

Miss., Meridian — Making preliminary plans 70 x 100 ft., rein.-con. settling basin, 20 ft. deep. $20,000. B. Stewart, City Hall, engr.

Tenn., Greenville — Making preliminary surveys waterworks extensions. To exceed $15,000. Klyce & Haub, 4th & 1st Natl. Bank Bldg., Nashville, engrs.

Okla., Chickasha — Making preliminary plans impounding reservoir and flow line $50,000. C. A. Dearman, mayor. Engineer not announced.

Okla., Erick—Making preliminary plans extending 11,000 ft. 4 and 6 in. c.i. mains in various streets. $15,000. J. A. Richardson, Erick, engr.

Okla., Mooreland—Voted $30,000 bonds, new waterworks. E. A. Jones, Enid, engr. Noted Dec. 8.

Calif., Aptos—Aptos Water Co. (W. C. Lyon), 65 Sutter St., San Francisco, plans water supply. To exceed $25,000.

Bids Desired

N. Y., Brewster—Dec. 23, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, chlorinating plant incl. small dam, intake and outlet pipe lines, diffusor pit and grit chamber, on Peach Lake Outlet, near here.

N. Y., Yonkers—Jan. 4, at office Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, structural steel and rein.-con. protection for pure water reservoir, also stone timber faced rein.-con. bridge on Saw Mill River Parkway, here, Contr. 160. J. Downer, ch. engr.; adv. E. N.-R. Dec. 22.

N. J., Newark—Dec. 28, at office T. L. Raymond, dir. Pub. Affairs, City Hall, 60 in. water conduit from Belleville Reservoir, Bellville, to 8th Ave., here. Former bids rejected. Noted Nov. 24.

Fla., Bradentown—Dec. 30, by R. K. Van Camp, comr. Pub. Wks., 5 ton hand operated traveling crane; 100 kw. multi-cylinder vertical gasoline or Diesel driven a.c. generating unit, direct connected engine; 1,750 g.p.m. each direct connected to multi-cylinder gasoline engine and 750 g.p.m. centrifugal pumps, each direct connected to electric motors, switch and gauge board; also concrete and brick pumping station, erecting machinery and making hydraulic and electrical connections. E. V. Camp and Associates, Inc., Atlanta, Ga. and Bartow, consult. engrs.

O., Brook Park (br. Cleveland)—Dec. 28, by Village, mains in 6 streets. To exceed $15,000. B. T. Wright, c/o owner, engr.

O., Yellow Springs—Jan. 11, by C. H. Ellis, clk. Bd. Trustees Pub. Affairs, 12 x 18 ft. stucco and timbre pump house and equipment, Contr. 1, $6,000; 14,000 ft. 6 in. c.i. pipe, etc., Contr. 2, $23,000; also 100,000 gal. elevated steel water tank, Contr. 3, $7,500. Jennings-Lawrence Co., Hartman Bldg., Columbus, engr.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Ill., Fox River Grove — Dec. 29, by Village, F. Cerny, mayor, sinking deep well. Suhr, Berryman, Peterson & Suhr, 105 North Clark St., Chicago, engrs.; adv. E. N.-R. Dec. 22.

Contracts Awarded

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, 300 single nozzle fire hydrants, Contr. 907, to Teil Mfg. Co., 2935 West 47th St., Chicago, Ill., $12,180; and 30 in. pipe, connections, etc., to P. and A. J. Ellis, 4th and Wyoming Sts., $24,619. Noted Dec. 1.

La., New Orleans — Sewerage & Water Bd., 526 Carondelet St., waterworks, sewerage and drainage during 1928, to J. M. McGowan, 1209 Joseph St. at $0.0057. Noted Oct. 20.

Okla., Anadarko—Extending 13,580 ft. 4 in. c.i. main, 13 fire hydrants and 13 four in. valves in various streets, to Cullum Constr. Co., Central Bank Bldg., Dallas. Tex., $26,479. Engrs. est. $35,000. Noted Aug. 18.

Okla., Chickasha—Extending mains in various streets, to E. W. Baker, Perrine Bldg., Oklahoma City, $69,681. Engrs. est. $90,000. Noted Sept. 1.

Okla., Talihina—E. T. Nelson, town clk., waterworks, incl. dam and pipe line, to Carrothers & Co., 6803 East 39th St., Kansas City, Mo., $54,000. Engrs. est. $60,000. Noted Dec. 1.

Sewers

Proposed Work

N. Y., Johnson City — Bd. Village Trustees, J. C. Banks, mayor, making preliminary surveys sewerage system and disposal plant. Fuller & McClintock, 170 Bway., New York City, engrs.

O., Euclid—Plans approximately 4,000 ft. 60- to 72-in. sewer in Upson Rd., $80,000; and 3,000 ft. 36- to 48-in. sewer in Johnson Rd., $65,000. F. A. Thomas, Town Hall, engr.

Mich., Chelsea — Making preliminary plans sewerage system and disposal plant, incl. tank, etc. $70,000. G. Champe, Nasby Bldg., Toledo, O., engr.

Mich., Detroit—Dept. Pub. Wks. making plans 10,000 ft. 12 in. concrete circular sewer in tunnel, incl. special sections and connections in Cavalry Ave. $750,000. P. A. Fellows, City Hall, engr.

Kan., Kansas City — Soon takes bids sewers in West Argentine Dist. $30,000. R. W. Swope, Kansas City, engr.

Okla., Shawnee — Making preliminary plans sewers in Bway., Beard and Main Sts., $100,000; also extending 4 mi. sewers in East Highland addition $40,000. E. T. Archer & Co., 612 New England Bldg., Kansas City, Mo., engrs.

Okla., Tulsa — Voted $100,000 bonds, sewers in various streets. C. Schultz, City Hall, engr.

Calif., Long Beach—Takes bids about Jan. 8, 134,060 ft. 8- to 24-in. vitr. clay

See proposal advertising on page 104

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Only 51 days between the decision to build an emergency water works plant - - *and the finished job!*

- - the speed with which Leadite jointing can be accomplished contributed to this remarkable feat.

THE line illustrated here is 26,000 ft. of 12" pipe with LEADITE joints.

Owing to the emergency which arose in the city for which the installation was made no trenching could be attempted.

The line lies throughout its entire length on the surface of the ground without any bracing except at the bends.

After completion the line was tested to 260 lbs. pump pressure.

It is now under constant pump working pressure of 230 lbs. For over 30 years now, LEADITE has demonstrated by test and experience that it is absolutely permanent and secure.

Leadite is self-caulking and is so simple to use that the method of using it can be taught to even the most inexperienced help in a very short time.

Added to its speed and ease of use—Leadite saves at least 75% on account of saving in material and labor.

Part of the 26,000 ft. installation, crossing an open field. Chas. E. Waddell & Co., Engineers.

Specify and use
LEADITE
—it saves at least 75%

Be sure it is
LEADITE
and accept no imitations~~~

The pioneer self-caulking material for c. i. pipe
Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Sewers (Continued)

sewer in Parker, Gale, Pico, Ellis, Fachion and Harbor Aves., et al. $750,000. A. H. Adams, City Hall, engr. Noted Dec. 15.

Calif., Los Angeles—Bd. Pub. Wks. takes bids about Jan. 15, 11,242 ft. Angeles Mesa Dr. Liemert Ave., Garthwaite, 9th, 8th and 7th Sts. et al in Slauson Ave. Storm Drainage System Sect. 6. L. W. Armstrong, Brunswig Bldg., engr.

Calif., Los Angeles—Made plans sewers in Angeles Mesa Dr. between Santa Barbara Ave. and point 200 ft. south, in addition to portions Liemert Blvd. and 11th Ave., etc. (Slauson Ave. Storm Drain, Sect. 6.) L. W. Armstrong, city storm drain engr.

Que., Montreal—Plans submitting referendum to ratepayers in January, trunk sewers. $29,000,000.

Ont., Hamilton—Making plans and takes bids about Jan. 1, overflow sewer in various streets. $383,000. W. C. McFaul, City Hall, engr.

Ont., Toronto—York Twp. making plans 15,000 lin.ft. 6 in. and up vitr. tile sewers in Holwood Rd., Jane St. and 8 avenues; and private drains in 4 avenues. $50,000. F. B. Goedike, 40 Jarvis St., engrs.

Bids Desired

N. Y., Brooklyn—Dec. 28, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewer in Applegate Court, also grading and sheet asphalt on concrete repaving Engert Ave. from Leonard St. to Graham Ave.

N. J., Keansburg — Jan. 3rd, by Mayor and Council, sewers in various streets. Former bids rejected. Remington & Vosbury, 509 Cooper St., Camden, engrs. Noted Nov. 24.

Pa., Phila.—Dec. 28, by Dept. Pub. Wks., Bureau of Engineering, Schedule A, branch sewers; Schedule B, main sewers, incl. extending Little Tacony Creek and Haverford St. between 69th St. and Lebanon Ave.; and Schedule C, sewage disposal project along county line between Darby and Church Creeks. G. H. Biles, dir.

La., DeQuincy—Jan. 5, by H. L. Smith, pres. Bd. Sewerage Comrs. sewerage system in Dist. 1. J. B. McCrary Eng. Corp., Citizens & Savings Bldg., Atlanta, Ga., engrs. Noted Oct. 20.

Contracts Awarded

N. Y., Syracuse—Bd. Contr. & Supply, City Hall, sewers in Velasko Rd. and Bellevue Ave., to J. M. Corbett, Jr., S. K. & K. Bldg., $44,581. Noted Nov. 24.

Pa., Northampton—R. M. Kiechel, secy. Town Council, sanitary sewers in various streets, to Flanagan & Correale, Scranton and Hazleton, $121,333; and disposal plant, to R. T. and C. D. Stewart, Easton, $58,160. Noted Oct. 20.

Tenn., Knoxville—Directors Pub. Serv., sewer in Sequoyah Hills Draniage Dist., to A. J. Wardrep, Knoxville, $65,505. Noted Nov. 24.

O., Willoughby—See "Streets and Roads."

Ind., Elkhart—Precast sewers in business district to P. C. Sorenson, 443 Worden St., Grand Rapids, Mich., $165,035. Noted Dec. 15.

Ont., London—City Council will lay 6, 8, and 10 in. sewers in various streets, by day labor, under direction W. P. Near, city engr. $50,000.

Calif., Los Angeles — Sewer in 5th St. between Fairfax Ave. and San Vicente Blvd., to L. Miletich, 610 West 54th St., $42,844. Noted Dec. 8, mayor.

Calif., Los Angeles—Supervs. Los Angeles Co., 110,000 lin.ft. 6- to 15-in. sewer in Willowbrook and Paulsen Aves., Willowbrook Unit 1, Impvt. 611, to J. Artukovich, 684 East 50th St., $214,040. Noted Dec. 8.

Ont., Toronto—T. Foster, chn. Bd. Control, City Hall, sewer in Golfdale Rd., to McNamara Constr. Co., 53 Yonge St., $7,397; and 1½ mi. Sect. A. B. North Toronto Trunk Sewerage System, concrete and brick pipe, to A. Cavotte, 257 Euclid Ave., $132,000. Noted Nov. 10.

Waste Disposal

Proposed Work

Que., Montreal—Plans submitting referendum to ratepayers in January, incinerators, etc. $1,700,000.

Bridges

Proposed Work

Mass., Newton (Ind. br. Boston)—Boston & Albany R.R., G. A. Kirley, ch. engr., Boston, plans concrete bridge over Crescent Ave., West Newton. $25,000 or more.

Rhode Island—Washington Bridge Comn., State House, Providence, making plans concrete arch, leaf bascule bridge connecting Providence and East Providence. $3,000,000. C. W. Hudson, 15 Park Row, New York City, engr. Noted Sept. 1.

Miss., New Albany—City and Union Co. soon takes bids rein.-con. bridge across Tallahatchie River, here. $70,000. Noted Aug. 18.

Tenn., Knoxville—See "Unclassified."

Tenn., Lewisburg — Marshall Co. voted $30,000 bonds, new bridges.

Wisconsin — State Hy. Comn., Madison, making plans 5 span, 130 ft., concrete and steel bridge over Black River, on Highway 35. $140,000. H. J. Kuelling, comr.

Missouri—State Hy. Comn., Jefferson City, plans one 60 ft. steel truss span bridge in Bates Co.; four 10 ft. rein.-con. slab and four 30 ft. rein.-con. deck girder spans, etc., Callaway Co.; two each 10 and 12 ft. rein.-con. slab, one 60 ft. steel truss and two 40 ft. rein.-con. deck girder spans, etc., Cape Girardeau Co.; 20 ft. rein.-con. slab spans, etc., Cass Co.; 44 ft. rein.-con. deck girder span, etc., Cole Co.; four 24 ft. rein.-con. slab spans, Gentry Co.; two 20 ft. rein.-con. slab, two 30 ft., one 35 ft. and one 40 ft. rein.-con. deck girder, seven 20 ft. and two 40 ft. I-beam, also one 80 ft. steel truss spans, etc. Holt Co.; three 30 ft. rein.-con. deck girder spans, Howard Co.; three 30 ft. rein.-con. deck girder spans, etc. Lincoln Co.; two 16 ft. six 20 ft. and six 35 ft. I-beam, one 80 ft., two 60 ft. and one 140 ft. steel truss spans, etc., Nodaway Co.; 30 ft. rein.-con. deck girder span, Phelps Co.; five 20 ft. rein.-con. slab spans, etc., St. Charles Co.; 38 ft., 43 ft. and 45 ft. rein.-con. deck girder spans, etc., Warren Co. T. H. Cutler, ch. engr.

Arkansas—Benton Co. Quorum Court, c/o W. R. Edwards, judge, Bentonville, takes bids in summer, rein.-con. and steel bridge over White River, on Bentonville-Eureka Springs Rd., near Best; Perry Alden Dam Bridge over Osage River; Deep Ford Bridge over Osage River, near Logan; Fairview Schoolhouse Bridge over Osage River near Dixieland Pl.; Alden Farm Bridge over Spavinaw Creek, 5 mi. south of Gravette; Spavinaw Creek Bridge, 2 mi. south of Gravette; and Court Hart Pl. Bridge over Osage River, south of Bentonville. $35,000.

Tex., Johnson City—Blanco Co. plans concrete and steel bridge across Pedernales River. $40,000.

Tex., Waxahachie — Ellis Co. making plans viaduct over Missouri Kansas & Texas R.R. and Trinity & Brazos Valley Ry. tracks on State Highway 6. $123,000. W. A. Spalding, Waxahachie, engr.

Okla., Allen—State Hy. Dept., Oklahoma City, making preliminary plans 1 span 96 ft. steel truss bridge on piers over Steep Creek, on Road 12, Pontotoc Co., near here. $35,000. C. R. Mandigo, Capitol, Oklahoma City, engr.

Okla., Ketchum — Craig Co. (Vinita) making preliminary plans 2 span 220 ft. steel truss bridge on piers over Grand River, near here. $80,000. G. Walter, Vinita, engr.

Que., Montreal—Soon takes bids concrete and steel bridge over Canadian & Pacific Ry. tracks, at Grande Blvd. $55,000.

Bids Desired

N. Y., Yonkers—See "Waterworks."

Pa., Phila.—Dec. 28, (extended date) by Dept. Pub. Wks., Bureau of Engineering, Bridge Div. replacing 2 timber bridges with 60 x 378 ft. and 60 x 380 ft. steel span bridges each to have 3 rein.-con. arches, etc. over Pennypack Creek, line of Rhawn St. $600,000. Former bids returned unopened. Noted Dec. 8.

Pa., Pittsburgh—Dec. 23, by City Council reconstructing and paving Ellsworth Ave. Bridge over Pennsylvania R.R. tracks. $70,000.

Pa., Pittsburgh—Dec. 23, by City Council, reconstructing and extending Viaduct 2, also reconstructing Viaduct 3, together with ramps and appurtenances on Blvd. of the Allies. $550,000. Bureau of Engineering City-County Bldg., engrs. Noted Sept. 15.

Ala., Birmingham — See "Streets and Roads."

Miss., Vicksburg—Jan. 4 (extended date), by Vicksburg Bridge & Termnial Co., c/o H. Bovay, pres., 1263 Agnes Pl., Memphis, Tenn., at National Park Hotel, four simple spans and two 420 ft. anchor arms and one 825 ft. cantilever channel span highway and railway bridge, with 4,000 ft. embankment approaches at each end, 55,000 cu.yd. concrete, 15,000 tons steel, etc., over Mississippi River, here. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs. Noted Dec. 8.

O., Akron—Dec. 27, by W. F. Peters, Dir. Pub. Serv., substructure and approach walls East Center St. grade separation project. $45,000. E. A. Kemmler, Municipal Bldg., engr.

Mo., Princeton—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Ark., Fulton—Dec. 30 by State Hy. Comn., Little Rock, 1,907 ft. concrete bridge and approaches over Red River, here. I. G. Hedrick, Inc., 319-20 Ardis Bldg., Shreveport La., consult engrs.; adv. E. N.-R. Dec. 22. Noted Nov. 3.

Tex., San Antonio — Dec. 27, by City Comrs., 103 ft. vehicular and pedestrian bridge, 39 ft., with 8 ft. sidewalks. $35,000. S. F. Crecelius, 201 Torcido Dr., engr.

Contracts Awarded

N. Y., Croton Lake—A. Goldman, comr. Plant & Structures, Municipal Bldg., New York City, reinforcing and reconstructing Pines Bridge over Croton Lake, here, to Beech Contg. Co., 122 Livingston St., Brooklyn, $59,434. Noted Dec. 1.

Pa., New Castle—Comrs. Lawrence Co., J. R. Lamoree, chn. com., Court House, viaduct over Beaver River and railroad tracks connecting Wampun and Chewton, to M. J. McMahon, DuBois, $312,865. Noted Nov. 24.

Pa., Pittsburgh—Comrs. Allegheny Co., Court House, granite pylons on Liberty Bridge over Monongahela River, to Donatelli Granite Co., Brighton Rd., $68,110. Engrs. est. $75,000.

North Carolina—State Hy. Comn., Raleign, rein.-con. bridges and culverts on Project 624, Catawba Ca., to Hobbs-Peabody Constr. Co., Charlotte, $53,799. Noted Aug. 11.

O., Cincinnati—G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, 8th St. Viaduct, ¾ mi. long, rein.-con. and steel, on Ohio River Rd., here, to Folwell-Ahlskog Co., 323 North Michigan Ave., Chicago, Ill., $1,851,829. Noted Dec. 15.

O., Columbus—See "Streets and Roads."

Ill., Chicago—City, Room 406, City Hall, substructure for double leaf trunnion bascule bridge over Chicago River, on North Clark St., to Fitzsimmons-Connell Dredge & Dock Co., 10 South La Salle St. $491,105, and superstructure for same, to Ketler-Elliott Co., 3101 South California Ave. $480,000; also substructure for double leaf trunnion bascule bridge over South Branch Chicago River, on West Taylor St., to Central Dredging Co., 307 North Michigan Ave., $138,444. Grand total $1,109,549. Noted May 12.

Iowa—State Hy. Comn., Ames, to Knutson Bros., Chariton, 90 x 20 ft. pony truss bridge with two 40 ft. I-beam approach on Bridge Project 503, near Kimballton, Audobon Co. $16,447, one 90 x 20 ft. pony truss bridge with two 32 ft. I-beam approaches on U. S. Highway 32, Bridge Project 523, Muscatine Co. $14,795, 150 x 20 ft. high truss and 24 x 24 ft. I-beam bridges on West Liberty-Nichols Rd., Bridge Project 513, Muscatine Co. $20,480, and three 40 x 24 ft. span bridge across Summit Lake, Bridge Project 493-B, near Creston, Union Co. $12,870; to A. F. Johnson, Lockbridge, three 160 x 20 ft. span high truss bridge with two 40 ft. I-beam approaches over Skunk River, on U. S. Highway 161, Bridge Project 313, near Mt. Pleasant, Henry Co. $63,900; to A. A. Alexander, Des Moines, three 130 x 20 ft. span high truss bridge with two 40 ft. I-beam approaches on U. S. Highway 161, Federal Aid Project 296, at Curtis, Johnson Co., $46,937; to Wallace Lumber Co., Sigourney, 14 culverts and extensions on U. S. Highway 32, Bridge Project 523 $3,200, also 12 culverts and extensions on West Liberty-Nichols Rd., Bridge Project 513, $6,100 both Muscatine Co. Grand total $184,729. Noted Dec. 8.

Kan., Howard—See "Streets and Roads."

Kan., Oswego—Labette Co., to C. Koch & Sons, Kansas City, Mo., five 30 ft. deck girder span bridge $8,391, five 16 ft. slab span bridge $7,878, and seven 30 ft. deck girder span bridge $11,208, all on Project 214-B. Grand total $27,477.

Texas—See "Streets and Roads."

Tex., Belleville—R. A. Thompson, state highway engr., Austin, concrete pile bridges on Highway 73-A, Austin Co., here, to Davis Pace Co., 1306½ Young St., Dallas, $34,881. Engrs. est. $50,000. Noted Dec. 1.

Advantages of Independent Concrete Pipe Sewers

from the ENGINEER'S Point of View

Permanency and economy of concrete pipe sewers have been proved by long and successful service.

Pipe units are built locally—
The special pipe plant becomes a "Home industry." Uses local labor and materials wherever possible. Benefits local business.

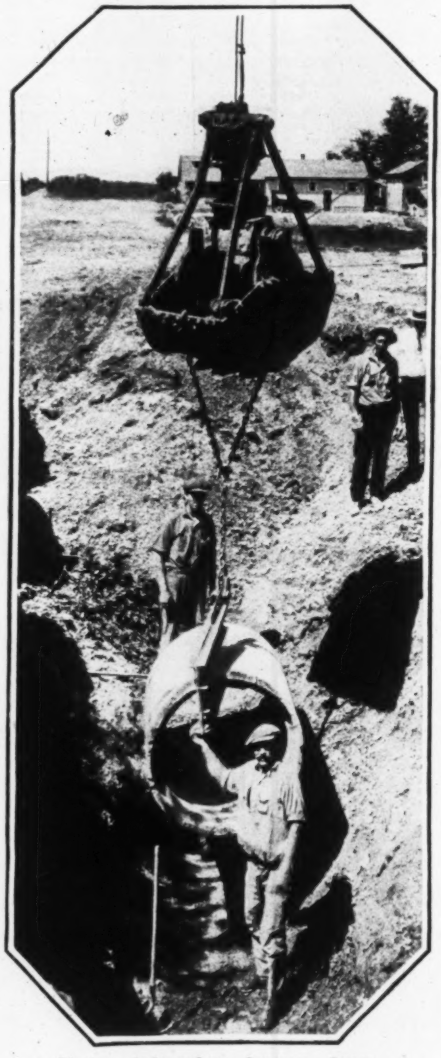
Inspection is facilitated—Materials, workmanship and pipe units are tested and inspected at every stage of construction.

Pipe is low in cost—due to the economies of "Independent" advanced methods of manufacturing concrete pipe.

Entire joint is visible for inspection, until trench is backfilled.

Completed sewer is strong, tight, permanent and efficient. Provides free flow and maximum capacity. Endures for generations, with little or no upkeep.

Let us send you engineering data.



Placing Independent Concrete Sewer Pipe at Lansing, Mich. One machine does all digging, laying and back-filling.

from the CONTRACTOR'S Point of View

Building the pipe locally—on the job or nearby, assures prompt delivery of pipe along the line of work, ready for the construction crew to lay.

"Recessed" Joints make the pipe easier to lay. Lower half of joint is sealed inside the sewer—upper half of joint is filled on top of pipe.

Pipe can be laid easily, and speedily even where water, caving soil, or other difficult trench conditions are encountered.

Laying can follow excavating closely, and back-fill can be made immediately after pipe joints are sealed, if required. Often one machine can do all three operations—digging, laying and backfilling.

Finished sewer means a profitable job, and a satisfied "customer."

Get our estimates on your 1928 sewer projects. Our low prices and complete service facilities will interest you.

INDEPENDENT CONCRETE PIPE CO., 202 N. West St., Indianapolis, Indiana.

INDEPENDENT

Reinforced Concrete Pipe

Bridges (Continued)

Tex., Giddings—See "Streets and Roads."

Tex., Houston—See "Streets and Roads."

Wash., Argo (mail Seattle)—Northern Pacific R.R. Co., H. E. Stevens, ch. engr., St. Paul, Minn., Chicago, Milwaukee & St. Paul Ry. Co., C. F. Loweth, ch. engr., Chicago, Ill., Pacific Coast Ry. Co., A. F. Marion, ch. engr., Seattle, Oregon, Washington R.R. & Navigation Co., S. Murray, asst. ch. engr., Portland, Ore., and Puget Sound Electric Ry. Co., 1531 Utah St., Seattle, 800 ft. rein.-con. and steel elevated bridge, incl. 700 tons steel, here, to J. A. McEachern Co., Inc., Colman Bldg., Seattle, $230,000.

California—Santa Fe R.R., R. B. Ball, ch. engr., 6th and Main Sts., Los Angeles, 4 concrete piers for bascule type railroad bridge over Middle River, in San Joaquin Co., to Missouri Valley Bridge Co., Leavenworth, Kan., structural steel, to U. S. Steel Products Co., Rialto Bldg., San Francisco. Engrs. est. $400,000. Noted Sept. 29.

Railways

Proposed Work

Texas—Texas-New Mexico Ry. Co., c/o G. O. Bateman, pres., Breckenridge, plans 35 mi. standard gage railway from Monahans, Ward Co. to and through Kermit, Winkler Co. $200,000.

Okla., Oklahoma City—City voted $4,000,000 bonds purchasing right-of-way Rock Island Ry. Co. and elevating tracks. Rock Island R.R. Co. and Frisco Lines plan expending $10,000,000, 2 new passenger stations. Noted July 30, 1925.

Contracts Awarded

Kentucky and Virginia — Louisville & Nashville R.R. Co., 9th St. and Bway., Louisville, Ky., 13 mi. railroad through Cumberland Mountains from Chevrolet, Ky., to Hagans, Va., incl. 4 tunnels, to W. W. Boxley & Co., Roanoke, Va., $2,500,000. Noted June 30.

Quebec—City of Montreal, levelling and constructing route for tramways line up Mount Royal, in Montreal, to Cooke Constr. Co. Ltd., 10 Cathcart St., $287,415.

Manitoba—Canadian Natl. Ry., 230 St. James St., Montreal, Que., C. S. Gzowski, ch. engr. (Constr.), constructing Flin Flon branch line in northern Manitoba, to Dominion Constr. Co. Ltd., Royal Bank Bldg., Toronto, Ont., and Tomlinson Co., 502 Confederation Life Bldg., Winnipeg. Noted Dec. 1.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

O., Cleveland—City and Bd. Comrs. Cuyahoga Co. making plans removing approximately 2,000,000 cu.yd. earth and straightening Cuyahoga River. $6,000,000. F. A. Pease, Marshall Bldg., engr.

Mich., Detroit—Dept. Parks & Boulevards, Marquette Bldg., making plans deepening and enlargening canals and lagoons on Belle Isle. $35,000. Private plans.

Mich., Detroit — Dept. Parks & Boulevards, Marquette Bldg., making plans dredging channels, grading banks, etc., incl. diverting and straightening Rouge River at bend in Baby Creek and River Rouge Parks. $25,000. Private plans.

Tex., San Antonio — City, c/o C. M. Chambers, mayor, soon takes bids river cut-off project for flood prevention, incl. channel 60 ft. wide and 20 ft. deep, concrete lining, etc. across Commerce and Market Sts. $175,000. S. F. Crecelius, 201 Torcido Dr., engr.

Okla., Frederick—Deep Red D. D. 2, Tillman Co., takes bids about Jan. 15, constructing in Deep Red Main Ditch, Little Red Lateral 1, and Jack Creek Lateral 2, incl. 465,619 cu.yd. excav., etc. $46,561.

Calif., Los Angeles—Harbor Comn. made plans 44,500 cu.yd. dredging at Berths 178-179. G. F. Nicholson, San Pedro, city harbor engr.

Porto Rico—Bureau Insular Affairs, War Dept., Munitions Bldg., Wash., D. C., sold $500,000 bonds, irrigation system, at or near Toro Negro River, here.

Bids Desired

N. Y., New York—Dec. 27, by M. Cosgrove, comr. Docks, Pier "A," foot Battery Pl., dredging at Plant 1, Dept. Street Cleaning, Rikers Island, Bronx Boro; and dredging in Manhattan Boro.

Miss., Clarksdale—Jan. 3, by Bd. Drainage Comrs. Coahoma Co., enlargement works in Hopson Bayou D. D., incl. 95,000 cu.yd. excav., 6 mi. ditch, 12 to 20 ft. wide at bottom, etc. L. W. Washburn, Clarksdale, engr.

Mo., Princeton — Dec. 28, by E. Mason, secy. Bd. Supervs. Mercer Co. Muddy Creek D. D. 1, approximately 237,000 cu.yd. open ditch excav.; also three 70 ft. and one 60 ft. steel bridges, etc. C. E. Jacoby Eng. Co., Interstate Bldg., Kansas City, engrs. Noted Nov. 17.

Wash., Aberdeen—Jan. 2, by City Council, filling 100 block district. $140,000. G. D. Ross, city engr.

Contracts Awarded

O., Conneaut — Bessemer & Lake Erie R.R. Co., removing pier, widening and dredging channel, to L. A. Wells Constr. Co., 30 Euclid Arcade, Cleveland, $100,000.

Ill., Piper City—Vermilion Special D. D., redredging 5 mi. ditch near here, to F. M. Crane Co., 210 South 24th St., Omaha, Neb. Noted Oct. 28.

Ill., Quincy—J. T. Inghram, atty. Fall Creek D. D., 10,000 ft. open ditch, incl. 35,780 cu.yd. excav., also 5,000 ft. levee, 36,630 cu.yd. excav. to M. W. O'Meara Quincy.

Iowa—See "Streets and Roads."

Ia., Atlantic—J. Ward, aud. Cass Co., Nishna Botna D.D. 7, point 11 mi. from here, 679,000 cu.yd. excav. in main ditch, 6,500 cu.yd. Lateral 1, and 51,300 cu.yd. Lateral 2, to J. Boyne Constr. Co., Council Bluffs at $0.0542 per cu.yd.

Ont., Port Burwell—Dominion Govt., Ottawa, improving harbor, here, to Port Arthur Constr. Co. Ltd., Excelsior Lift Bldg., Toronto, $435,600.

Que., Petite Riviere St. Francois—Dept. Pub. Wks., Ottawa, Ont., breakwater, here, to Aristide Maltais, La Malbaie, $16,370.

Que., Valleyfield—Dept. Pub. Wks., Ottawa, Ont., deepening entrance, here, to Les Chantiers Manasseau, Sorel, $40,000.

Streets and Roads

Bids Desired

Massachusetts—Dec. 27, by Dept. Pub. Wks., Boston, bituminous macadam paving 20,208 ft. highway in Townsend, 18 ft. W. F. Williams, comr.

Massachusetts — Jan. 3, by Dept. Pub. Wks., Boston, bituminous macadam paving 27,137 ft. highway in Bellingham and Franklin, 18 ft. W. F. Williams, comr.

N. Y., Brooklyn—Dec. 28, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading, curbing and flagging East 32nd St.; also grading, curbing and sheet asphalt on concrete paving Brooklyn, 11th, and Schenectady Aves., East 29th, East 34th, 50th, 74th, East 92nd Sts., etc.

N. Y., Long Island City—Dec. 24, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and granite block paving in railroad franchise area, Northern Blvd. from 82nd St. to Junction Blvd.

N. Y., New York—Dec. 27, by J. Miller, pres., Manhattan Boro, Municipal Bldg., grading and granite block paving Marginal and 43rd Sts.

N. Y., New York—Dec. 29, by A. Goldman, comr. Plant & Structures, Municipal Bldg., sidewalks and paving west end 155th St. viaduct.

N. Y., Syracuse—Dec. 27, by Bd. Contr. & Supply, City Hall, grading, vitr. brick, asphalt, bitulithic concrete or concrete paving Strathmore Park, Greenway, Euclid and Gordon Aves., Hudson, Craddock, Chemung, Winton and West Onondaga Sts.

Md., Baltimore—Dec. 28, by Bd. Awards, sheet asphalt paving 9,800 sq.yd. streets listed in Contr. 446. N. L. Smith, City Hall, highways engr.

Ala., Birmingham—Dec. 27, by Bd. Revenue, Jefferson Co., grading, curbing, guttering and asphaltic concrete on concrete paving, etc. 5,800 sq.yd. Ave. V, Ensley from Warrior Rd. to 48th St.; also grading, curbing, guttering and sheet asphalt or bitulithic on concrete paving, etc. 13,250 sq.yd. Ave. V, from 48th St. to South Park Rd. C. J. Rogers, co. highway engr.

Ala., Birmingham — Jan. 17, by Bd. Revenue, Jefferson Co., Court House, concrete or bituminous concrete paving, etc., 7,600 sq.yd. Gate City-Irondale Rd., and 6,000 sq.yd. roadway from Hollywood to Rosedale over Birmingham Water Works pipe line; also dismantling 100 ft. span bridge over Cahaba River, on Montgomery Highway, and re-erecting same at new site, etc. C. J. Rogers, co. highway engr.

Louisiana—Jan. 19, by State Hy. Comn., Baton Rouge, grading and graveling 4 mi. Bernice-Farmerville Highway, Project 554-B, and 7.178 mi. Farmerville-Bastrop Highway, Project 452-C, Union Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, state engr.

O., Cincinnati—Dec. 27, by Comrs. Hamilton Co., grading and tar bound macadam repaving, etc., 6,600 sq.yd. Neeb Rd. $25,031. E. A. Gast, Court House, engr.

O., Cincinnati—Dec. 27, by C. O. Sherrill, city mgr., City Hall, curbing, walks and granite repaving 5,800 sq.yd. (new block) and 5,700 sq.yd. (old block) 2nd St. $76,979; also grading, curbing, walks and concrete repaving, etc., 14,000 sq.yd. Glenmore Ave., $70,508.

O., Cleveland—Dec. 28, by City, paving, etc. 2 sections Warrensville Center Rd. To exceed $25,000. F. Lander, Court House, engr.

Michigan—Dec. 30, by R. W. Roberts, resident engr., 504 Eddy Bldg., Saginaw, grading 0.849 mi. Federal Aid. FO73-22-C-2, Saginaw Co., for State Hy. Dept., Lansing.

Ill., Chicago—Dec. 28, by City, at office Bd. Local Impvts., Room 207, City Hall, grading, sewers, 7 in. concrete paving, etc., portions of various alleys. G. A. Dahlberg, atty.

Kan., Marion—Jan. 5, by Clerk Marion Co., grading, etc., 6.278 mi. Project 72-D, 28 ft. C. M. Hartsock, Marion, engr.

Mo., St. Louis — Jan. 17, by Bd. Pub. Serv., 208 City Hall, asphalt paving Madison Ave. between Jefferson and Webster Sts., $47,320; and asphaltic concrete paving 4,570 sq.yd. Osceola St. $25,800, 2,340 sq.yd. Theodore St. $15,360, 3,385 sq.yd. Emma Ave. $22,800, 1,750 sq.yd. Rhodes St. $11,640, 2,975 sq.yd. Finkman St. $19,900, 2,600 sq.yd. Rhodes St. $17,480, and 4,700 sq.yd. Concordia St. $11,520. W. W. Horner, 300 City Hall, engr.

Tex., San Antonio—H. E. Dickinson, c/o Central Trust Bldg., San Antonio, taking bids and opens same about Dec. 15, approximately 100,000 sq.ft. concrete sidewalks and 31,000 lin.ft. standard concrete curbing $40,000; also 2 in. asphalt on crushed rock surfacing 75,000 sq.yd. various streets Woodlawn Dist., west section city $100,000, all above in connection with 100 acre land development. Private plans. Noted Oct. 27, under "Unclassified."

Okla., Prague—Dec. 30, by L. Newhouse, city clk., grading, curbing, guttering and 7 in. concrete paving 10,900 sq.yd. Park St. $33,200. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Calif., Alhambra—City Clerk taking bids guttering, walks, 1½ in. oil macadam paving 3,244 ft. and 5 in. asphaltic concrete paving, etc., 135,906 sq.ft. Sierra Vista Ave., etc.

Calif., Alhambra—City Clerk taking bids curbing, oil macadam paving and 5- to 7-in. concrete paving, etc., 90,019 sq.ft. Ethel Ave., etc. Noted June 16.

Calif., Redlands—City Trustees taking bids curbing, guttering, walks and 5 in. macadam paving, etc., 92,700 sq.ft. Colton and East Citrus Aves., etc.

Calif., San Diego—Jan. 3, by Common Council, curbing, walks and 6 in. asphaltic concrete paving, etc., 125,310 sq.ft. Dewey and 26th Sts.; also curbing, walks and 7 in. concrete paving, etc., 511,807 sq.ft., Beardsley and 26th Sts. H. W. Jorgensen, city engr. Noted Nov. 24.

Costa Rica, San Jose—Apr. 30, by Dept. Pub. Wks., paving program, incl. 60,006 sq. meters asphalt on macadam paving, 60,000 sq. meters macadam paving, 3,000 sq. meters crushed rock fill, 8,000 ft. sewer and 1,500 ft. branch connections. S. L. Wilkinson, San Jose, Costa Rica, Amer. Vice Consul.

Contracts Awarded

New York—A. W. Brandt, comr. Highways, Albany, concrete paving 6.29 mi. Highway 1760, Hopewell-Junction Millbrook Rd., Part 3, Dutchess Co., to Stewart Sand & Gravel Corp., Binghamton, $382,710 e. e. $538,259; 9.52 mi. Highway 8294-1773, Willard-Geneva Rd., Parts 1 and 2, Seneca Co., to Concrete Constr. Corp., Rochester, $339,562 e. e. $464,233; 6.3 mi. Highway 8293, Seventh Lake-Blue Mountain Lake Rd., Part 2-B, Hamilton Co., to Bricon Constr. Co., Inc., Indian Lake, $419,719 e. e. $558,564; 4.82 mi. Highway 5411, West Creek Rd., 457 Little Falls-Herkimer Rd., Repair Contr. 3191, Herkimer Co., to F. J. Downing, 13½ Swan St., Buffalo, $270,575 e. e. $367,846; 2.07 mi. Highway 5488, Patchogue-Moriches Rd., 5301 Bayshore-Brookhaven Town Line

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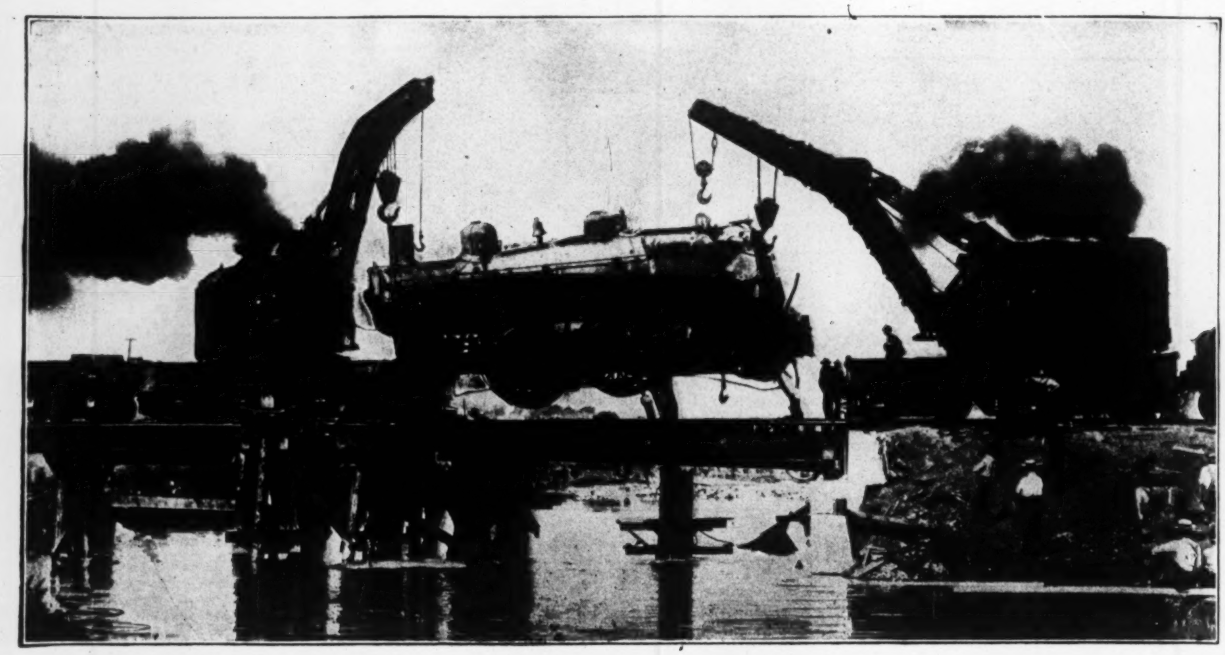
Industrial Brownhoist Cranes Set the Standard ~ ~ ~ ~ ~ ~ For Speed, Length of Service ~ ~ ~ And Economy ~ ~ ~



Industrial and Brownhoist were the originators of the locomotive crane industry in this country. Today there are thousands of these cranes in use—far more than any other make. ¶The advantages of mere numbers are unimportant, but the knowledge gained from long experience can be obtained in no other way. ¶Today Industrial Brownhoist offers you by far the most complete line of similar equipment ever manufactured by one company; locomotive cranes ranging from 7½ to 60 tons, wrecking cranes from 75 to 200 tons, and shovels of ½ to 1¼ yards capacity. ¶Getting the right crane or shovel, the one best size and type for your work, is your best guarantee of satisfactory, economical handling. And Industrial Brownhoist is best qualified to furnish this for you.

Industrial Brownhoist Corporation
General Offices: Cleveland, Ohio.
District Offices: Bay City, New York, Philadelphia, Pittsburgh, Detroit, Chicago, San Francisco, St. Louis, New Orleans.

INDUSTRIAL BROWNHOIST

Streets and Roads (Continued)

Rd., Suffolk Co., to Heling Contg. Corp., Bennett Pl., Lindenhurst, $142,291 e. e. $175,425; 1.33 mi. Highway 1845, Beaver St., Westchester Co., to J. L. Dugan, Inc., Little Britain Rd., Newburgh, $110,957 e. e. $138,646; and three 77½ ft. trusses and one 76 ft. bascule bridges on Highway 5716, Catskill-Village-Bridge St. Rd., Greene Co., to J. Johnson Constr. Co., 765 Abbott Rd., Buffalo, $218,213 e. e. $249,142. Grand total $1,884,027. Noted Nov. 10.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., constructing road from Bronx River Parkway to East 233rd St., to Republic Eng. Co., 280 Madison Ave., $92,-994; retaing wall on Sheridan Ave., to L. DiMinna, 366 Lorrilard Pl., $15,380; and sewer in Arnow Ave., to Fiorello, & Koch, 1895 Belmont Ave., $3,243. Grand total $111,617. Noted Dec. 1.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., widening and sheet asphalt on concrete paving 96th St., to C. D. Beckwith Co., Seneca Ave. and Edgewater Rd., $76,962. Noted Dec. 8.

Pennsylvania—State Hy. Comn., Harrisburg **(R. means Route)**, grading 26,479 cu. yd. R. 150, Bucks Co., to H. C. Ambler, 3717 York Rd., Phila., $21,230, and 8,661 cu.yd. R. 470, Mifflin Co., to J. M. Hutchinson, Altoona, $20,934; also grading and concrete paving 50,000 sq.yd. Rs. 520 and 525, Cambria, Westmoreland and Indiana Counties, to Hagedorn Constr. Co., Grafton, W. Va., $286,036, and 17,000 sq.yd. R. 302, Westmoreland Co., to E. H. Canon, McKeesport, $88,567. Grand total $416,757. Noted Nov. 3.

North Carolina—State Hy. Comn., Raleigh, grading, etc., 11.34 mi. Project 624, Catawaba Co., to N. L. Teer, Geer Bldg., Durham, $75,673. Noted Aug. 11.

Ala., Birmingham—City Comn., **(e.e. means engrs. est.)** curbing, guttering, walks and 2 in. asphalt on 6 in. concrete paving, etc. 7 blocks 12th St. W., 30 ft., and 2 in. asphalt on 6 in. concrete paving 4 blocks 11th St. and 2nd Ave. W., 40 ft., to W. J. Bryson, 239 West Adams St., Jacksonville, Fla., $41,615 and $21,687 respectively e.e. $42,000 and $22,100 respectively; also asphalt resurfacing 2 blocks 1st Ave. S., 40 ft., to Independent Paving Co., 3828 1st Ave., $6,798 e.e. $7,100. Grand total $70,100.

Miss., Brookhaven—Paving portion South 1st St., to Dunn Constr. Co., Jackson, $55,000.

Miss., Jackson—Grading, curbing, guttering and sidewalks on Gal Prentis and Greymont Sts., etc., to Owen & Gaddis, $15,966; guttering and sidewalks on Galveston St., to Dunn Constr. Co., Jackson, $1,334, Lexington St., to W. Ridgeway, Jackson, $2,659, and on Mill St., to Merrill Eng. Co., Jackson, $2,938. Grand total $22,897.

Louisiana—State Hy. Comn., Baton Rouge, grading and graveling 17.577 mi. Winnsboro-Columbia Highway, State Project 483, Franklin Parish, to W. C. Perry, Baton Rouge, $116,040. Noted Nov. 17.

O., Columbus — F. L. Donnally, clk. Franklin Co., grading and waterbound macadam on 6 in. concrete paving, etc. 3.279 mi. 2 sections Lithopolis Rd., 18 ft. to Neff & Rader, Circleville, $59,627; also bridge over Alum Creek, on Watkins Rd., to W. L. Savage, 211 South Richardson Ave., $7,833, both in Madison Twp. Noted Dec. 1.

O., Willoughby—Village, 8 in. concrete paving and 3,000 ft. 12- to 24-in. sewer in South Ave., to C. A. White Constr. Co., Willoughby. $51,000.

Michigan—R. R. Havens, resident engr., Jackson, concrete paving 10.138 mi. FO46-13, C-4, Lenawee Co., 20 ft., to State Constr. Div., C. M. Zeigler, supt., Capitol Natl. Bank Bldg., Lansing, for State Hy. Dept., Lansing, $383,097.

Iowa — State Hy. Comn., Ames **(P.P. Means Primary Project and F.P. Federal Aid Project)**, to Rock Island Cement Co., Rock Island, Ill., grading, concrete paving, etc. 15,371 sq.yd. Centerville Rd., P.P. 535-B, Appanoose Co., incl. 5 intakes, 1 flume basin, etc. $40,679, to C. F. Lytle Constr. Co., 625 Finance Bldg., Sioux City, 115,968 sq.yd. U. S. Road 30, P.P. 563, Harrison Co., 18 intakes, 9 flumes, etc. $295,172, 229,109 sq.yd. Algona Rd., F.P. 111, Kossuth Co., 4 intakes, 17 flumes, etc. $521,126, 195,500 sq.yd. Primary Road 141, P.P. 515, Monona Co., 87 intakes, 26 flume basins, etc. $508,559, and 130,220 sq.yd. Monona Rd., F.P. 2, Woodbury Co., 30 intakes, 33 flume basins, etc. $314,769, to Central Eng. Co., 809 Putnam Bldg., Davenport, 60,327 sq.yd. U. S. Highway 32, P.P. 523, Muscatine Co., 14 intakes, 14 flume basins, etc. $178,545, to Western Asphalt Paving Co., Sioux City, $163,592 sq.yd. Le Mars Rd., F.P. 38, Plymouth Co., 67 intakes, 11 flume basins, etc. $398,048; also to Woods Bros. Constr. Co., Lincoln, Neb., river bank protection along Des Moines, River, incl. 22 Woods Bros. steel currant retards complete in place, $12,383. Grand total $2,268,910. Noted Dec. 8.

Minnesota—State Hy. Comn., St. Paul **(F.A.P. means Federal Aid Project and S.P. State Project)**, to Nolan Bros., 18 North 2nd St., Minneapolis, concrete paving 20,-200 sq.yd. S.P. 3-28, F.A.P. 283, 72,780 sq.yd. S.P. 3-29, Sect. 2, F.A.P. 394-B, and 71,990 sq.yd. S.P. 3-52, F.A.P. 394-A $233,-735, 163,800 sq.yd. S.P. 40-21, Sect. 2, F.A.P. 384-A $224,412, 100,650 sq.yd. S.P. 50-21, F.A.P. 316, and 78,190 sq.yd. S.P. 50-24, F.A.P. 396 $233,558; also to E. W. Hallet, Crosby, 137,500 sq.yd. S.P. 12-25, F.A.P. 305 $184,018. Grand total $875,-723. Owner furnishes cement. Noted Nov. 17.

Kan., Howard — Elk Co., grading and bridging 4.772 mi. K12, Project 164-C, to Kepler Bros., Kansas City, Mo., $37,496; and 2 bridges on same road to Western Bridge Co. Harrisonville, Mo. $36,954. Noted Dec. 1.

Kan. Marion — Clerk Marion Co., sand and gravel surfacing 10.747 mi. U. S. 50-N, Project 170, to San-Ore Constr. Co., McPherson, $21,055. Noted Nov. 17.

Mo., Kirkwood—Grading and concrete paving Geyer Rd. between Missouri Pacific R.R. tracks and Dougherty Ferry Rd., to Moore Bros., Constr. Co., 2000 St. Clair Ave., East St. Louis, Ill., $33,056; and paving Jewel Ave. between Harrison Ave. and point 139 ft. easterly, to J. Steuby, 208 North Kirkwood Rd., $517

Ark., Conway—Curbing, guttering and 6 in. concrete paving 8,400 sq.yd. Street Impvt. Dist. 11, to C. W. Jones, Conway. $21,496. Engr. est. $28,300.

Texas—R. A. Thompson, state highway engr., Austin, **(F. A. P. means Federal Aid Project, S. A. P. means State Aid Project, and e. e. means engrs. est.)**, to D. H. Purvis & Son, Box 706, Ft. Worth, grading and bridging 12.164 mi. State Highway 24, F. A. P. 527-B, Young Co., $35,325 e. e. $50,000, 8.978 mi. State Highway 79, F. A. P. 532-D, $22,077 e. e. $32,000, and 9.339 mi. State Highway 78, F. A. P. 532-C, $66,-385 e. e. $70,000, both in Archer Co., to O. Speer, Alford, 12.596 mi. State Highway 24, F. A. P. 527-A, Young Co., $74,777 e. e. $90,000, and grading, etc., 6.05 mi. State Highway 39, S. A. P. 753-B, Wise Co., $30,667 e. e. $40,000; to A. A. Davis & Co., 405 Westover Bldg., Kansas City, Mo., grading, etc., 14.202 mi. State Highway 73-A, Austin Co., $59,265 e. e. $65,000, all foregoing 26 ft.; to Dexter Constr. Co., 605 North Texas Bldg.., Dallas, crushed stone and caliche paving 13.122 mi. State Highway 18, S. A. P. 669, Schackelford Co., 18 ft., $49,571 e. e. $55,000. Grand total $338,067. Noted Dec. 1.

Tex., Giddings—R. A. Thompson, state highway engr., Austin, grading and bridging 8.623 mi. Highway 102, State Aid Project 734, 26 ft., Lee Co., here, to Hannah Constr. Co., Box 994, Waco, $25,059. Engrs. est. $30,000. Noted Dec. 1.

Tex., Houston—For 2½ in. vertical fibre brick paving approximately 10 blocks Canal St. from Houston Belt & Terminal Ry. tracks to 75th St., 42 ft., and brick on 8 in. concrete paving approximately 30,200 sq.yd. South Harbor Dr. from 69th St. Bridge to 75th St., to Smith Bros., 2402 West Dallas Ave., $108,473 and $112,191 respectively. Engrs. est. $115,000 and $120,000 respectively. Noted Nov. 17.

Tex., Houston — Harris Co., grading, bridging and concrete paving 4.658 mi. Highway 12, Federal Aid Project 512-B, 20 ft., to Gibson & Mitchell, Huntsville, $139,-012. Engrs. est. $150,000. Noted Oct. 20.

Okla., Shawnee — Pottawatomie Co., gravel surfacing 7,800 cu.yd. West Highland Rd., Project 11, to Ellis & Lewis, Muskogee, $25,774, engrs. est. $27,000; and 19,000 cu.yd. Maude-Wye Rd., Project 9, to R. L. Davis, Madill, $41,237, engrs. est. $45,000.

Okla., Snyder—Grading and 6 in. concrete paving 6,960 sq.yd. Avenues A and B, to Highway Constr. Co., Kennedy Bldg., Tulsa, $26,218. Engrs. est. $28,000.

Calif., Chula Vista—Common Council, 5 in. asphaltic concrete paving, etc. 255,000 sq.ft. streets and alleys, to Miracle Constr. Co., 4500 Menlo Ave., East San Diego, $104,500.

Calif., Los Angeles—Grading and concrete paving, etc., Bluffside Dr. between Lankershim Blvd. and Vineland Ave., and Craner Ave. between Hatteras St. and Burbank Blvd., to J. L. McClain, 3452 West Slauson Ave., $38,727 and $45,962 respectively.

Calif., Los Angeles—Grading and concrete paving Garvey Ave. and Monterey Pass Rd., between Alhambra city limits and Floral Dr., also grading, 5 and 7 in. concrete paving, etc., 443,435 sq.ft. Sagamore Way and Ave. 40 Impvt. Dist., to McCray Co., 4482 East Worth St., $122,170 and $188,945 respectively. Noted Nov. 17 and Dec. 15.

Calif., San Diego — Improving Madison and Adams Aves., to B. Noble, Spreckels Bldg., $82,913 and $28,274 respectively; also Rosecrans St. et al., to D. H. Ryan, 1615 Fern St., $54,277. Grand total $165,-464. Noted Oct. 13.

Calif., San Diego — Common Council, walks and 6 in. asphaltic concrete paving 135,945 sq.ft. Alabama St. and Monroe Ave., to D. H. Ryan, 1615 Fern St., $29,846. Noted Oct. 6.

Calif., Santa Barbara—Curbing, guttering and asphaltic concrete paving, etc. portions Valerio and Pedregosa Sts., etc., to C. T. Richardson, 525 East Haley St., $25,912. Noted Aug. 25.

Buildings—Commercial

Proposed Work

Me., Bangor—STORE and OFFICE—Coe Estate, c/o G. W. Banton, 116 Hammond St., takes bids about Jan. 1, 3 story and basement, 155 x 175 ft., brick, plain foundation, Main, Cross and Columbia Sts. $150,-000. Crowell & Lancaster, Exch. Bldg., archts. Noted Nov. 17.

Mass., Abington (Ind. Sta. North Abington)—THEATRE and STORE—C. Kolodny, 7 Devotion St., Brookline, plans 1 and 2 story and basement, brick and steel, Washington St. and Central Ave. $150,000 or more.

Mass., Jamaica Plain (sta. Boston) — HOSPITAL — Faulkner Hospital, 1153 Centre St., takes bids about Jan. 5, 4 story and basement, 45 x 150 ft., brick addition, plain foundation, Centre St. $150,000. O. A. Thayer, 89 Franklin St., Boston, archt. Noted Aug. 11.

Mass., Malden (br. Boston)—APARTMENT—I. Rosenfield, c/o C. F. Springall, archt., 84 Sprague St., having plans prepared 5 story and basement, brick, plain foundation, Pleasant St. $150,000.

Mass., Mattapan (Sta. Boston)—HOSPITAL—City of Boston, Hospital Dept., Harrison Ave., plans Consumptive Hospital, addition, 249 River St., here. $150,000 or more. Engineer and architect not selected.

Mass., Westboro—TOWN HALL—Town, R. S. Newton, chn., 9 Central St., Boston, having preliminary sketches made by Kilham, Hopkins & Greeley, 9 Pearl St., Boston, town hall, Main St. $150,000.

Mass., Winthrop — HALL — Town, J. Remby, chn. building com., having plans prepared by W. N. Bacon, 27 Kilby St., Boston, 3 story and basement, brick and stone, plain foundation, Herman and Winthrop Sts. $175,000. Noted Sept. 22.

Conn., New Britain — APARTMENT — Owner, c/o M. Unklebach, archt., 52 Main St., having plans prepared 4 story, brick, steel and stone apartment. $200,000.

Conn., West Haven (br. New Haven)—APARTMENT—Carbonari & Montesi, 598 3rd Ave., having preliminary plans prepared by H. Cannici, 59 Center St., New Haven, 3 story, 65 x 115 ft., brick and steel, Martin and Main Sts. $150,000.

N. Y., New York — APARTMENT and STORE — Seventy-Nine West 162nd Street Corp., c/o H. Ginsberg, archt., 220 East 42nd St., had plans prepared 6 story and basement, 201 x 233 ft. apartment, and stone building, Woodycrest Ave. and 162nd St. $800,000.

N. Y., New York—LOFT—Rohr Realty Estate Co., 41 East 42nd St., c/o M. Rosenfeld, 41 East 42nd St., having plans prepared by Gronenberg & Leuchtag, 1385 Bway., brick and steel, 264 West 35th St. $500,000.

N. J., Bayonne — APARTMENT — L. Zeick, 739 Hudson Blvd., having plans prepared by M. Kraut, 14 Journal Sq., Jersey City, 4 story and basement, 50 x 140 ft., brick and steel, plain foundation, West 33rd St. $150,000.

N. J., Belleville (br. Newark)—APARTMENT—H. Tennenberg, 22 Fairchild St., Irvington, having plans prepared by Branch & Singer, 60 Park Pl., Newark, 5 story and basement, 90 x 100 ft., brick and steel, plain foundation, Tappen and Floyd Aves. $225,000.

N. J., Belleville (br. Newark)—HOSPITAL—Bd. Freeholders Essex Co. (Newark), E. L. Smith, supt., Soho St., having sketches made by Sutton, Sutton & Calkins, 402 Broad St., Newark, 4 story and basement, brick and steel, plain foundation, here. $1,000,000. Noted Sept. 29.

N. J., Camden—CITY HALL—Camden Co., City Hall, having plans prepared by

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Buildings—Commercial (Continued)

W. P. Laird, 34th and Spruce Sts., Phila., Pa., 4 story and basement city hall. $3,000,000.

N. J., East Orange — APARTMENT — Huegel & Clark, c/o Warren & Warren, archts., 31 Clinton St., Newark, having plans prepared 4 story and basement, 75 x 125 ft., brick and steel, plain foundation, 24 Grove St. $150,000.

N. J., Hoboken—APARTMENT—Hoboken Tennis Club, 903 Castle Point Terrace, plans 5 story and basement, brick and steel, plain foundation, south of Elysian Park. $250,000. Engineer and architects names withheld.

N. J., Jersey City—HOTEL—Universal Securities Co., H. W. Runyan, pres., 50 Journal Sq., having plans prepared by Thomas Martin & Kirkpatrick, 220 South 16th St., Phila., Pa., 17 story and basement, brick and steel, plain foundation, 2861-67 Hudson Blvd., here. $5,000,000. Noted Nov. 24.

N. J., Newark—APARTMENT—B. Goldberg, c/o Meyers, Bigelow & Shanley, archts., 24 Walnut St., having plans prepared 5 story and basement, brick and steel, plain foundation, Chancellor Ave. $150,000. Noted Nov. 3.

N. J., Newark — APARTMENT — W. Gornitsky, c/o M. Nadel & M. Fort, archt., 32 Hill St., having plans prepared 3 story and basement, brick and steel, plain foundation, 482-90 Roseville Ave. $150,000.

N. J., Newark — BANK — Washington Trust Co., 477 Broad St., having plans prepared by N. Harris, 24 Branford St., 2 story and basement, brick and steel, plain foundation. $150,000.

N. J., Newark — THEATRE — Fox Theatres, 850 10th Ave., New York City, takes bids about Jan. 15, theatre, here. T. W. Lamb, 844 8th Ave., New York City, archt. J. DiStasio, 136 Liberty St., New York City, engr. Noted Jan. 27.

N. J., North Bergen (Ind. br. Weehawken)—APARTMENT—S. Engel, 237 29th St., plans 5 story and basement, brick and steel, plain foundation, on 100 x 100 ft. site, Hudson Blvd. south of 39th St. $150,000. Engineer and architects names withheld.

N. J., Somerville—HOTEL—S. C. and M. Platt, 220 West 42nd St., New York City, having plans prepared by S. C. Platt, 220 West 42nd St., New York City, 3 story hotel and two hundred fifty 1½ story bungalows, all brick and timber, plain foundation, Southerland Heights. $1,000,000.

N. J., Verona (Ind. Bd. Montclair)—SANITARIUM—Bd. Freeholders Essex Co. (Newark) having plans prepared by Sutton, Sutton & Calkins, 402 Broad St., Newark, 3 story and basement, brick and steel, plain foundation, here. $1,000,000. Noted Sept. 8.

Pa., Phila. — EXCHANGE — Bell Telephone Co., 17th and Arch Sts., having plans prepared by J. T. Windrim, Commonwealth Bldg., 2 story and basement, rein.-con. and brick, plain foundation, 17th and Logan Sts. $150,000.

Va., Richmond—HOTEL, OFFICE and STORE—Davis Bros., Inc., 1716 Summit Ave., plans 4 story and basement, 75 x 125 ft., rein.-con., brick and stone, 5th and Franklin Sts. $250,000.

N. C., Jackson Springs—HEALTH RESORT—Jackson Springs & Bad Nauheim Corp. having plans prepared by G. Post & Son, 101 Park Ave., New York City, health resort, incl. large hotel, baths, etc. $1,250,000.

Ky., Louisville — APARTMENT and GARAGE—L. Jacobson & Sons (owners, archts. and engrs.), 1st and Gaul Sts., preparing plans 3 story and basement, brick and terra cotta apartment, and garages, Spring Dr. and Bonneycastle Ave. $200,000.

O., Youngstown — EXCHANGE — Ohio Bell Telephone Co., 4300 Euclid Ave., Cleveland, plans new exchange, Southern Blvd. and Labelle Ave., here. $450,000.

Ind., Ft. Wayne—APARTMENT—Owner, c/o L. E. Burkett, archt., 244 Farmers Trust Bldg., soon lets contract 2 story and basement, 107 x 123 ft., brick, steel and stone apartment. $150,000.

Ind., Indianapolis—HOSPITAL—Methodist Hospital, 16th and Capitol Sts., having plans prepared by D. A. Bohlen & Son, Majestic Bldg., 16 story and basement, 400 room, buff brick, steel and stone annex, incl. surgeries, diet kitchen and laboratories, Capitol Ave. $650,000.

Mich., Ann Arbor—BANK and OFFICE —First Natl. Bank soon takes bids 10 story and basement, rein.-con., brick and steel, plain foundation, Main and Washington Sts. Fry & Kasurin, Ann Arbor, archts. Noted Oct. 6.

Mich., Birmingham—STORE and OFFICE—Frank Couzens Co., 108 North Bates St., having plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 2 story and basement, 56 x 190 ft., rein.-con., brick and steel, plain foundation, Bates St. $150,000.

Mich., Detroit—APARTMENT—Tibbits Hotel, Winder St., having plans prepared by E. T. Knope, 507 Scherer Bldg., 4 story and basement, 75 x 120 ft., rein.-con., brick and steel, plain foundation, Lincoln and Grand River Aves. $250,000.

Mich., Highland Park (br. Detroit) — APARTMENT—W. Berman, 509 Lafayette Bldg., Detroit, had plans prepared by C. N. Agree, 1140 Book Tower Bldg., Detroit, 4 story and basement, 83 x 180 ft., brick, steel and stone, plain foundation, Eason Ave., here. $160,000.

Mich., Muskegon — THEATRE — Continental Realty Co. plans 3 story and basement, 132 x 140 ft., rein.-con. and brick, plain foundation, 3rd and Western Sts. $500,000. Engineer and architect not announced.

Ill., Chicago — APARTMENT — Rebori, Wentworth, Dewey & McCormick, archts., 332 South Michigan Ave., soon take bids 13 story and basement, 70 x 80 ft., rein.-con., brick and stone, Banks and Astor Sts., for Syndicate, c/o architects. $500,000. Noted Nov. 17.

Ill., Chicago—APARTMENT—Two Hundred Twenty-Two Chestnut Street Buildnig Corp., c/o Rissman & Hirschfeld, archts., 228 North La Salle St., having plans prepared 19 story and basement, 65 x 110 ft., rein.-con., brick and stone, Chestnut and De Witt Sts. $2,250,000.

Ill., Chicago—BANK and OFFICE—Belmont-Sheffield Trust & Savings Bank, 1002 Belmont Ave., having plans prepared by J. A. Nyden, 190 North State St., 6 story and basement, 100 x 120 ft., rein.-con. and brick, plain foundation, Belmont and Sheffield Aves. $600,000.

Ill., Chicago — HOTEL — Lowenberg & Lowenberg, archts., 111 West Monroe St., soon take bids 12 story and basement, rein.-con., brick and stone, on 81 x 83 x 90 x 117 ft. site, Lincoln Ave., Wells and North Clark Sts., for Syndicate, c/o M. E. Feiwell, 11 South La Salle St. $1,000,000. Noted May 12.

Ill., Chicago—SANITARIUM—D. Wallace, archt., 22 West Monroe St., soon takes bids 6 story and basement, 43 x 128 ft., rein.-con., brick and stone, 2824 Prairie Ave. $300,000. Owner's name withheld. F. A. Randall, 160 North La Salle St., engr.

Ill., Marion—HOTEL—Manske & Bartling, archts., 410 North Euclid St., St. Louis, Mo., take bids about Jan. 1, 3 story and basement, rein.-con., brick and terra cotta, here, for Marion Hotel, Inc., c/o G. S. Jackman & Co., 1123 Boatmen's Bank Bldg., St. Louis, Mo. Archts. est. $150,000. Noted Aug. 18.

Wis., Milwaukee — APARTMENT — D. Rothman, 631 Walnut St., having plans prepared by W. Veewendaal, 4914 Washington Bldg., 5 story and basement, 108 x 110 ft., rein.-con. and brick, plain foundation, 50th St.

Minn., Minneapolis — HOSPITAL — Swedish Hospital, c/o W. Mills, supt., 10th Ave. S. and 7th St., having plans prepared by Magney & Tulser, 116 South 9th St., 4 story and basement, rein.-con., brick and stone addition, 10th Ave. S. and 7th St. $500,000.

Kan., Salina — HOTEL — B. H. Byrnes, archt., Natl. Bank of America Bldg., soon lets contract 7 story and basement, rein.-con., brick and steel, for W. E. Smither. $150,000.

Mo., Columbia — APARTMENT — F. W. Niedermeyer having plans prepared by Wallace & Sutter, 923 Rialto Bldg., Kansas City, 4 story and basement, 75 x 115 ft., terra cotta apartment. $150,000.

Mo., Columbia — THEATRE — Missouri Theatre, Inc., c/o D. Stone, 414 Exchange Natl. Bank Bldg., soon lets contract 2 story and basement, 142 x 160 ft., rein.-con., brick and terra cotta, 9th and Locust Sts. $200,000. Boller Bros., 114 West 10th St., Kansas City, archts.

Ark., Little Rock—JAIL—Pulaski Co., c/o C. P. Newton, judge, having preliminary plans prepared jail, $200,000, or 4th floor addition to courthouse, $300,000, rein.-con., brick and stone.

Tex., Galveston — HOTEL — W. L. Moody, Jr., and associates, having plans prepared by A. Frazier, Amer. Natl. Insurance Bldg., 11 story, 125 x 128 x 158 x 258 ft. rein.-con., brick, steel and terra cotta, Tremont St. and Boulevard. $1,000,000. Noted Dec. 15.

Tex., Port Aransas — WAREHOUSE — Vaughan Lumber Co., c/o Gibbs Bldg., San Antonio, having preliminary plans prepared fireproof warehouse, on Harbor Island, here. $175,000.

Tex., San Angelo—BANK, OFFICE and HOTEL—Concho Realty Co. having plans prepared by Korn & Morgan, San Angelo, 12 story and basement, 400 room, bank and office building, $700,000; and hotel, West Twohig Ave., Irving and Randolph Sts., $600,000.

Okla., Oklahoma City—AUTO SALES—Deignan Motor Co., 5th St. and Bway., having preliminary plans prepared 3 story and basement, 100 x 140 ft., rein.-con. and brick, plain foundation, 6th St. and Bway. $150,000.

Okla., Oklahoma City—STATIONS—See "Railways."

Okla., Tulsa — STATION — City voted $1,250,000 bonds, its share for union station. Total $3,000,000. C. Schultz, city engr. Noted May 5.

Ore., Portland—STORE and OFFICE—F. G. Mayer having plans prepared by Claussen & Claussen, McLeary Bldg., 4 or more story and basement, 100 x 100 ft., Bway. and Alder St. $150,000-$250,000.

Calif., Compton—MAUSOLEUM—Angeles Abbey Mausoleum Park Co., Pacific South West Bank Bldg., Long Beach, having revised plans prepared and soon takes bids 1 story, 69 x 200 ft., rein.-con., here. $150,000. C. N. Aldrich, 1834 Dawson Ave., Long Beach, archt.

Calif., Oakland — THEATRE — Income Properties of California, Inc., 436 14th St., plans theatre, 17th St. near San Pablo Ave. $1,000,000. Engineer and architect selected soon. H. Duffy, c/o Alcazar Theatre, O'Farrell St. near Powell St., San Francisco, lessee.

Calif. San Diego — HOSPITAL — Mercy Hospital, 6th St. and Hillcrest Dr., had plans prepared by J. E. Loveless, 714 Chester Williams Bldg., Los Angeles, and soon takes bids (from selected list of contractors), 11 story, 45 x 100 ft., rein.-con., 6th St. and Hillcrest Dr. $300,000.

Calif., San Francisco—APARTMENT—Amer. Impvt. Co., c/o A. H. Larsen, archt., 447 Sutter St., had plans prepared 6 story, basement and sub-basement, concrete, California and Laguna Sts. $350,000.

T. H., Honolulu — STORE — Dillingham Co., c/o Walker & Eisen, archts., Western Pacific Bldg., Los Angeles, having preliminary plans prepared 4 story and basement, Class "A," here. $1,250,000.

Que., Montreal—MARKETS—City plans submitting referendum to ratepayers in January, markets. $1,000,000.

Que., Montreal—POSTAL STATION—Dept. Pub. Wks., Ottawa, Ont., soon takes bids brick, steel and stone addition to Postal Station A, St. James and Windsor Sts., here. $200,000.

Ont., Windsor—HOTEL—Greater Windsor Development Co., c/o Trace & Diehl, archts., 23 West Pitt St., having plans prepared 25 story and basement, rein.-con., steel and stone, caisson foundation, London St. $1,500,000.

Ont., Hamilton — HOME — City having plans prepared by W. J. Walsh, 304 Terminal Bldg., 3 story and basement, concrete, brick and stone addition to Home for Aged and Infirm, John St. N. $150,000.

Ont., London—HOTEL—London Hotel, R. Lussier, mgr., plans hotel addition. $150,000.

Ont., Ottawa—GARAGE and STABLE—Canada Bread Co. Ltd., 160 Avenue Rd., Toronto, plans 1 and 2 story, concrete and brick, Catharine St., here. $150,000. Engineer and architect not selected.

Ont., Toronto — APARTMENT — G. B. Patton, 85 Springmount Ave., had plans prepared 2 story and basement, 105 x 148 ft., brick and stone apartment. $150,000. Private plans.

Ont., Toronto — APARTMENT — A. R. Roberts, 86 Quebec Ave., having plans prepared by D. H. Burnham, 260 Lauder St., 40 x 150 ft., brick and stone, stone foundation, Spencer St. $150,000.

Bids Desired

Mass., Boston — APARTMENT — See "Contracts Awarded."

Mass., Everett — APARTMENT — G. N. Prunier, c/o B. E. Porter, archt., 73 Tremont St., Boston, taking bids 4 story and basement, 55 x 105 ft., brick, plain foundation, Bway. and Chestnut Sts., here. $150,000. Noted Dec. 15.

Mass., Leominster—THEATRE—A. McEvoy taking bids 2 story, brick and steel, Mechanic St. $150,000. J. E. Kelly, 38 Chauncy St., Boston, archt. Noted Nov. 17.

R. I., Providence—COURT HOUSE—Jan. 10, by Providence County Comn., 4 story and basement, brick and steel, plain foundation, College, Benefit, Hopkins and South Main Sts. $3,500,000. Jackson, Robertson & Adams, Turks Head Bldg., archts. French & Hubbard, South St., Boston, Mass., engrs. Noted Aug. 18.

Conn., Stamford—HOTEL—G. H. Abbott, O. De L. Mayer & H. F. Hamburg, 155 East 42nd St., New York City, taking bids 6 story and basement, brick, River St. $300,-

Buildings—Commercial (Continued)

000. L. M. Loeb, 49 Lawton St., New Rochelle, N. Y., archt.

N. Y., New York — APARTMENT — See "Contracts Awarded."

N. Y., Rochester — APARTMENT — See "Contracts Awarded."

N. J., Kearny (mail Arlington) — APARTMENT—See "Contracts Awarded."

N. Y., White Plains—CENTER—Jan. 16, by J. Downer, ch. engr., at office Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, constructing Westchester County Center Bldg., here, Contrs. 125, 125-P, 125-H, and Contr. 125-E; adv. E. N.-R. Dec. 22. Noted Oct. 20.

Pa., Mayview—HOME and HOSPITAL—Jan. 9, at office City Controller, City-County Bldg., Pittsburgh, altering and constructing additions to home and hospital, here, for Dept. Pub. Welfare, B. F. Rauh, dir. Eric Fisher Wood & Co., 233 Oliver Ave., Pittsburgh, archts. Noted Sept. 15.

Pa., Phila.—APARTMENT—See "Contracts Awarded."

Pa., Phila.—STORE—Dec. 28, by Simon & Simon, archts., 249 South Juniper St., 10 story, mezzanine, basement and sub-basement, 56 x 104 ft., rein.-con., brick and steel, plain foundation, 13th and Chestnut Sts., for Blum Store, M. Spector, 13th and Chestnut Sts.

La., Lake Charles—BANK—Jan. 4, by Favrot & Livaudais, archts., Hibernia Bank Bldg., New Orleans, 2 story and mezzanine, 70 x 157 ft., rein.-con., and brick, plain foundation, Pujo and Ryan Sts., here, for Calcasieu Natl. Bank. $250,000. Noted Nov. 17.

Mich., Battle Creek—SANITARIUM—M. J. Morehouse, archt., 343 South Dearborn St., Chicago, Ill., taking bids 4 story and basement, 120 x 180 ft., rein.-con., brick and steel addition, incl. service building, plain foundation, Washington Ave., here, for Battle Creek Sanitarium, Washington Ave. $200,000.

Mich., Detroit — APARTMENT — See "Contracts Awarded."

Mich., Detroit—HOTEL—Holden Owosso Hotel, Owosso, taking bids 6 story and basement, rein.-con., brick, steel and stone, plain foundation, here. $350,000. B. K. Gibson, 624 Michigan Ave., Chicago, Ill., archts.

Mich., Eloise—HOSPITAL—Dec. 27, by Supt. Poor, Wayne Co., County Bldg., Detroit, 4 story and basement, 275 bed capacity, rein.-con., brick and steel, plain foundation, Michigan Ave., here. $500,000. Maul & Lentz, David Whitney Bldg., Detroit, archts. Noted June 23.

Mich., Flint—APARTMENT—See "Contracts Awarded."

Ill., Chicago — APARTMENT, STORE, etc.—A. S. Alschuler, archt., 28 East Jackson Blvd., taking bids 3 story and basement, 100 x 140 ft., rein.-con., brick and terra cotta, 5449-46 West Madison St., for J. Kulp & Co., 19 South La Salle St. $300,000 Noted Oct. 13.

Wis., Milwaukee — APARTMENT — See "Contracts Awarded."

Wis., Milwaukee—THEATRE—Backes & Uthus, archts., 208 3rd St., taking bids 2 story and basement, 140 x 140 x 280 ft., rein.-con. and brick, plain foundation, Meinecke Ave., Fond du Lac and 22nd Sts., for Great Western Investment Co., R. J. Teske, secy., 1540 Hopkins St.

Kan., Salina—HOTEL—B. H. Byrnes, archt., Natl. Bank of America Bldg., taking bids 7 story and basement, rein.-con., brick and steel hotel, for W. E. Smither, Salina. $150,000.

Tex., San Angelo — EXCHANGE — San Angelo Telephone Co., c/o J. Y. Rust, pres., taking bids 2 story (ultimately 6 story) and basement, 75 x 126 ft., rein.-con., brick, steel and stone exchange. $200,000. Lang & Witchell, 300 Amer. Exch. Bank Bldg., archts.

Calif., Los Angeles — APARTMENT — Fidelity Holding Corp. taking bids (selected list of contractors), 5 story, 60 x 120 ft., cast stone and stucco, 607 South Kenmore Ave. $300,000. S. C. Lee, Petroleum Securities Bldg., archt.

Calif., Los Angeles — EXCHANGE — Pacific Telephone & Telegraph Co., 740 South Olive St., taking bids (from selected list of contractors), 1 story, 100 x 190 ft., rein.-con., Magnolia St. near Bahman Ave., in North Hollywood, near here. $150,000.

Ont., Toronto — OFFICE — Dec. 27, by Chapman & Oxley, archts., Northern Ontario Bldg., superstructure 22 story and basement, 170 x 186 ft., rein.-con., brick, steel and stone, for Star Publishing Co., 70 King St. W. Archts. est. $3,000,000. Noted Dec. 8.

Contracts Awarded

Mass., Boston — APARTMENT — J. P. Kenney, 2071 Centre St., West Roxbury, will build 3 story and basement, 100 x 100 ft., brick and stone, plain foundation, South and Conway Sts., here. $150,000. Work will be done by separate contracts.

Mass., Boston—STORE and OFFICE—E. S. Welch, 73 Tremont St., 6 story and basement, brick and stone, plain foundation, 143 Newbury St., to J. M. and C. J. Buckley Co., 183 Essex St. Archts. est. $150,000.

N. Y., New York—APARTMENT—Tudor City-Fifth Unit, Inc., 350 Madison Ave., will build 10 story, 85 x 128 ft., brick and steel, 315 East 43rd St. $850,000. Work will be done by separate contracts. F. F. French, 350 Madison Ave., archt.

N. Y., New York—APARTMENT—Oneh Building Corp., will build 5 story and basement, 50 x 85 ft., brick and steel, Burke and Wallace Aves. $180,000. Work will be done by separate contracts. Bates & Franklin, 2526 Webster Ave., archts.

N. Y., New York — APARTMENT — Alcassam Building Corp., 219 East 196th St., will build 79 x 104 ft. apartment, 235th St. and Carpenter Ave. $185,000. Work will be done by separate contracts. Gluck & Dumas, 400 East Fordham Rd., archts.

N. Y., New York—APARTMENT—One Hundred Seventy-Eighth St. and Hughes Ave. Corp., 563 Tremont Ave., will build 6 story apartment, Hughes Ave. and 178th St. $200,000. Work will be done by separate contracts. L. Pisciotta, 563 Tremont Ave., archt.

N. Y., New York — APARTMENT — Brentford Realty Corp., 17 East 42nd St., 6 story and basement, 100 x 125 ft., brick and timber, 226 East 70th St., to Brenford Constr. Co., 17 East 42nd St. $250,000.

N. Y., New York — APARTMENT — Pierce Builders, Inc., 206 Rush St., will build 6 story, 90 x 100 ft. apartment, Wallace and Arnow Aves. $180,000. Work will be done by separate contracts. Franklin & Bates, 2526 Webster Ave., archts.

N. Y., New York—APARTMENT—S. G. and L. Constr. Co., 344 East 149th St., will build 6 story, 87 x 100 ft. apartment, Fox and 167th Sts. $150,000. Work will be done by separate contracts. S. F. Oppenheim, Inc., 156 East 42nd St., archt.

N. Y., New York—GARAGE—Kent Automatic Parking Garage, Inc., M. A. Kent, pres., 350 Madison Ave., 24 story, 50 x 200 ft. garage, 209-11 East 43rd St., to F. T. Ley Co., 578 Madison Ave. Archts. est. $1,250,000. Noted July 14.

N. Y., New York — OFFICE — Courtlef Realty Corp., A. E. Lefcourt, pres., 1351 Bway., will bulid 26 story, 111 x 197 ft. office buliding, 263 7th Ave. $3,500,000. Work will be done by separate contracts. Buchman & Kahn, 49 West 45th St., archts.

N. Y., Rochester — APARTMENT — L. Brotsky, 425 Hollenbeck St., will build 4 story and basement, 75 x 150 ft., brick and steel, plain foundation, East Ave. $500,000. Work will be done by separate contracts. W. J. Fuehrer, 205 Clifford Ave., archt.

N. J., Kearny (mail Arlington) — APARTMENT — Garfield, Inc., J. H. Mularkey, pres., 471 Kearny Ave., will build 4 story and basement, 80 x 125 ft., brick and steel, plain foundation, Davis Ave. $150,000. Work will be done by separate contracts. M. A. Wolf, 845 Broad St., Newark, archt. Noted Dec. 15.

N. J., Newark—APARTMENT—C. Riess, 262 Ellery Ave., will build 4 story and basement, 100 x 125 ft., brick and steel, plain foundation, 197-201 Highland Ave. $200,000. Work will be done by separate contracts. M. Nadel & M. Fort, 32 Hill St., archts. Noted Dec. 8.

N. J., West Orange (br. Orange) — THEATRE, STORE and APARTMENT—S. and B. Holding Co., I. Seiler, pres., 545 Bway., Bayonne, general contract 2 story and basement, 125 x 175 ft., brick and steel, plain foundation, Valley Rd. near Freeman St., to Economy Constr. & Realty Co., 28 William St., Newark. Archts. est. $150,000. Noted Aug. 4.

Pa., Phila. — APARTMENT — M. S. Kirschner, 2419 North 56th St., will build 4 story and basement, 98 x 149 ft., brick, plain foundation, Vernon Rd. and Crittendon St. $150,000. Work will be done by separate contracts. J. E. Fieldstein, Otis Bldg., archt.

Pa., Phila.—APARTMENT—A. W. Hall, archts., 15th and Locust Sts., 21 story and basement, 47 x 117 ft., rein.-con., brick and steel, plain foundation, 13th and Chanceller Sts., to F. V. Warren Co., 1913 Arch St. Noted Nov. 3.

Ala., Montgomery — HOTEL — Capital City Hotel Co., Jefferson Davis Hotel, 11 story and basement, 75 x 100 ft., brick, steel and concrete, to Hugger Bros. Constr. Co., Montgomery, $1,000,000. Noted Mar. 31.

Tenn., Nashville — HOSPITAL — St. Thomas Hospital, Hayes St., remodeling and constructing concrete and brick addition, to Foster & Creighton Co., 4th and 1st Natl. Bank Bldg., approximately $200,000.

Ind., Hammond — APARTMENT — N. Kaplan, 416 Sheridan Ave., Whiting, general contract 3 story and basement, rein.-con., brick and terra cotta, Robertsdale, here, to Milda & Son, 22 154th Pl., Calumet City. Archts. est. $150,000.

Ind., Indianapolis—APARTMENT and GARAGE—W. H. Hanning, 909 East Maple Rd., general contract 3 story and basement, rein.-con., brick and steel, 64 x 315 ft. site on 5700 East Washington St., to Southern Building & Realty Co., 330 Amer. Central Life Bldg. Archts. est. $165,000.

Mich., Detroit — APARTMENT — D. Fidler, 4831 Fullerton Ave., will build 3 story and basement, 85 x 110 ft., brick and steel, Alter Rd. Archts. est. $150,000. Work will be done by separate contracts. R. J. West, Lightner Bldg., archt.

Mich., Detroit—GARAGE—Detroit Garages, 510 Cass Ave., 10 story and basement, 130 x 160 ft., rein.-con. and brick, plain foundation, Cass Ave., to H. G. Christman Burke Co., 315 Stevens Bldg. Archts. est. $400,000. Noted Nov. 17.

Mich., Flint—APARTMENT—W. S. Tremaine, 517 Dryden Bldg., will build 3 story and basement, rein.-con., brick and steel, plain foundation, Avenue A. Work will be done by separate contracts. Archts. est. $150,000. Private plans.

Ill., Chicago—APARTMENT—J. Cohen & Co., archts., 160 North La Salle St., masonry and carpentry contract 7 story and basement, 50 x 125 ft., rein.-con., brick and terra cotta, 5036 Sheridan Rd., to C. E. Erickson, 4753 Bway.; terra cotta, to Northwestern Terra Cotta Co., Clybourne Ave.; plumbing, to T. H. Litvin Plumbing Co., 3306 Armitage Ave.; and heating, to C. H. Ehrlick & Co., 121 North Jefferson St. Archts. est. $400,000. Noted Dec. 1.

Ill., Downers Grove — THEATRE and STORE — Van Gunten & Van Gunten, archts., 26 East Huron St., Chicago, general contract 6 story and basement, rein.-con. and brick, Main St., here, to P. J. Schless, Downers Grove, for C. H. Bunze. Archts. est. $500,000. Noted Oct. 6.

Wis., Milwaukee—APARTMENT—Associated Owners, c/o H. L. Kuehnel, engr., 4625 Woodlawn Court, will build 6 story and basement, 65 x 120 ft., rein.-con. and brick, plain foundation, 15th St. $225,000. Work will be done by separate contracts.

Wis., Milwaukee — APARTMENT — Marshall, Inc., general contract 8 story and basement, 88 x 89 ft., rein.-con. and brick, 460 Marshall St., to S. M. Siesel, 160 Ogden Ave. Archts. est. $200,000.

Tex., Corpus Christi — HOTEL — Smith Bros. & Nixon and Associates, general contract 10 story and basement, approximately 24,000 sq.ft. floor space, rein.-con. and brick, plain foundation, to McKenzie Constr. Co., c/o Travis Bldg., San Antonio, approximately $600,000.

Okla., Shawnee — BANK — State Natl. Bank, general contract 4 story and basement, 50 x 140 ft., rein.-con. and brick, plain foundation, Beard St., to G. P. Carr, Shawnee $140,000.

Tex., Stinnett—COURTHOUSE—R. A. Goodwin, judge Hutchinson Co., 3 story, part basement, brick and rein.-con., plain foundation to C. S. Lambie & Co. of Amarillo, $341,888. Noted Nov. 17.

Ariz., Phoenix—OFFICE—Security Investment Co., 8 story and basement, 120 x 138 ft., rein.-con., brick and stone, Phoenix, St., to Edwards, Wildey & Dixon, Edwards & Wildey Bldg., Los Angeles, Calif. Archts. est. $600,000. Noted Sept. 8.

Calif., Oakland—STORE—H. C. Capwell Co., 14th and Clay Sts., 4 story, (ultimately 10 story), basement and sub-basement, steel and rein.-con., 20th and Bway. Sts., to P. J. Walker Co., Sharon Bldg., San Francisco, approximately $3,000,000. Noted Nov. 24.

Calif., San Francisco — APARTMENT — One Thousand Seventy-Six, Inc., E. B. DeSurville, 110 Sutter St., 14 story and basement, Chestnut St., to Dinwiddie Constr. Co., Crocker Bldg., approximately $750,000.

Calif., San Francisco—APARTMENT—E. Stempel, 811 Hearst Bldg., 6 story and basement, rein.-con., Scott St. near Hayes St., to R. J. Stempel, 811 Hearst Bldg., $150,000.

Calif., San Francisco—APARTMENT—J. L. Stewart, Claus Spreckels Bldg., 10 story and basement, Stockton St. near Pine St., to E. K. Nelson, 77 O'Farrell St., approximately $300,000. Noted Dec. 15.

Calif., San Francisco—APARTMENT—A. Raymond, 6 story and basement, rein.-

Buildings—Commercial (Continued)

con., Fell and Franklin Sts., to Barrett & Hilp, 918 Harrison St., $200,000.

Calif, San Francisco—APARTMENT—Lincoln Investment Co., c/o A. H. Larsen, archt., 447 Sutter St., 6 story and basement, steel and rein.-con., Pine St. near Hyde St., to J. A. Johnson, Russ Bldg., $165,000. Noted Dec. 1.

Calif., San Francisco—OFFICE and MEDICAL—A. H. Bergstrom, 74 New Montgomery St., 3 story addition to present 4 story building, Van Ness Ave. and Jackson St., to C. L. Wold, 185 Stevenson St., approximately $350,000. Noted Sept. 29.

Ont., Corbyville—WAREHOUSE—Canadian Industrial Alcohol Co., general contract 9 story and basement, 90 x 180 ft., rein.-con. and brick, plain foundation, to Foundation & Constr. Co. of Ontario, Temple Bldg., Toronto. Engrs. est. $200,000. Noted Nov. 17.

Ont., Ottawa—OFFICE and STORE—J. A. Evart, archt., Jackson Bldg., Bank St., 10 story and basement, rein.-con., brick and steel, Wellington St., to A. Garvock, Regent Bldg., Bank St., for Wellington Investment Co., Ltd., 128 Wellington St. Noted Nov. 3.

N. S., Halifax — HOTEL — Lord Nelson Hotel Co., 339 Roy Bldg., general contract 7 story and basement, 200 room, rein.-con., brick and steel, Spring Garden Rd. and South Park St., to H. L. Stevens & Co., 19 Melinda St., Toronto, Ont.; excavation to McDonald Constr. Co., Pickford and Blacks Wharf. Archts. est. $1,250,000.

Buildings—Industrial

Proposed Work

Mass., Boston—GARAGE and REPAIR SHOP — Edison Electric & Illuminating Co. ,39 Boylston St., having plans prepared by Bigelow & Wadsworth, 3 Hamilton Pl., 1 story, 120 x 120 ft., rein.-con. and steel, plain foundation, 1165 Massachusetts Ave.

Mass., Brighton (Boston P. O.)—PLANT—Albany Carpet Cleaning Co., 18 Penniman Rd., plans 2 story timber addition. $40,000 or more. Private plans.

Conn., Hartford—GARAGE and SHOP—Yellow Cab Co., 214 Farmington Ave., plans 2 story, brick, High St. To exceed $40,000. Engineer and architect not selected.

Conn., New Haven—POWER STATION—United Illuminating Co., 84 Temple St., having plans prepared by Westcott & Mapes, 139 Orange St., 1 story, 185 x 200 ft., brick, rein.-con. and steel power station. To exceed $40,000.

N. Y., Rochester—FUR STORAGE and STOCK ROOMS, etc.—G. F. Lorenz, archt., 311 Alexander St., soon takes bids 3 story and basement fur storage, stock room and cafeteria, brick and steel, plain foundation, East Main St., for Staub & Son, 951 East Main St. $40,000.

N. J., Hoboken — BAKING PLANT — Continental Baking Co., 740 Clinton St., plans 4 story and basement, rein.-con. and brick, plain foundation, 14th St. and Park Ave. $150,000. Engineer and architect not selected.

N. J., Newark—LEATHER MANUFACTURING PLANT—Jiegel Eisman & Co., 99 Frelinghuysen Ave., plans 2 story and basement, brick and steel, plain foundation, 105 Frelinghuysen Ave. $40,000. Engineer and architect not selected.

N. J., Woodbridge — POTTERY FACTORY — Woodbridge Ceramics Co. plans brick and steel, plain foundation. $200,000. Engineer and architect not selected.

O., Cincinnati—SLAUGHTER HOUSE—H. H. Meyer Packing Co., Central Ave. and Linn St., having plans prepared by Tietig & Lee, 34 West 6th St., 4 story and basement, brick and rein.-con., plain foundation, Bank St. $400,000.

O., Cleveland—FACTORY—Forest City-Wolworth Run Foundries Co., c/o P. Schmidt, archt., 4500 Euclid Ave., had plans prepared 2 story and basement, 82 x 110 ft., brick and steel, West 27th St. and Swift Ave. $50,000.

O. Dayton—FACTORY—Dayton Friction Toy Co., Hawthorne and Albany Sts., R. B. Mundy, pres. and genl. mgr., plans new factory unit, Hawthorne and Albany Sts. $40,000.

Mich., Kalamazoo — PAPER PLANT — Kalamazoo Vegetable Parchment Co. having plans prepared 3 story, 90 x 300 ft. paper treating plant, rein.-con., and brick, plain foundation. Private plans.

Kan., Manhattan — POWER HOUSE — Kansas State Agricultural College, H. E. Schrack, bus. mgr., soon lets contract 3 story and basement, 51 x 201 ft., and 81 x 108 ft., rein.-con., steel and native stone power house. $325,000. C. D. Cuthbert, State House, Topeka, archt.

Colo., Denver—BAKERY—Denver Bread Co., 600 West 12th Ave., plans new bakery. $45,000.

Colo., Devine (mail North Avondale) — BOOSTER COMPRESSING PLANT — Colorado Inter-State Gas Co. (controlled by Prairie Oil & Gas Co., Amarillo, Tex.), having plans prepared booster compressing plant on natural gas line. $700,000. Ford, Bacon & Davis, Inc., 115 Bway., New York City, engrs.

Tex., Big Springs—WAREHOUSE, MILL, etc.—Sweetwater Cotton Oil Co., c/o R. G. Simmons, Sweetwater, having plans prepared warehouse, feed mill and thresher, here. $40,000. Private plans.

Tex., San Angelo—GARAGE—S. Koeningham & C. Taylor plan garage, repairing and storage. $40,000. Engineer and architect selected soon.

Ore., St. Helens—PAPER MILL—C. R. McCormick Lumber Co., H. F. McCormick, vice-pres., plans paper mill, on Columbia River. $3,000,000. Engineer and architect not selected.

Calif., Los Angeles — FACTORY — See "Contracts Awarded."

Calif., San Francisco — FACTORY — Western Tallow Co., Davidson and Lane Sts., plans rebuilding factory, Davidson Ave., recently destroyed by fire. To exceed $50,000.

Man., Winnipeg — PLANT — Canada Cement Co. Ltd., Philips Sq., Montreal, Que., plans large plant addition, here. $500,000.

Sask., Estevan — POWER PLANT — Northern Light & Power Co., Bismarck, N. D., plans power plant, here. $5,000,000.

Bids Desired

Me., Westbrook—MILL—See 'Contracts Awarded."

Conn., New Britain—GARAGE—M. Kennedy, 31 Lafayette St., taking bids 2 story, 82 x 136 ft., rein.-con., brick and steel, Hartford Ave. $50,000 Storrs & Fienberg, 1127 Main St., Hartford, archts.

N. J., Orange—FELT MANUFACTURING PLANT—See "Contracts Awarded."

Mich., Detroit—FLOUR MILL—Jan. 17, by Fraser Co., engrs., 667 East Water St., Milwaukee, Wis., 5 story, 46 x 92 ft., rein.-con., brick and steel top addition, plain foundation, here. Randolph St., for Commercial Milling Co., 203 Randolph St. $65,000.

Ill., Schiller Park—PLANT—Bohnsack Brick Co. taking bids 1,057 ft. steel shed, 40 x 356 ft. machine house, 36 x 100 ft. machine shop, and 151 x 214 ft. drying plant, Irving Park Blvd. $750,000. W. Carpenter, c/o owner, engr.

Tex., Ft. Worth—PLANT—Jan. 22, by Montgomery Ward & Co., Chicago Ave. and Larr St., Chicago, Ill., (from selected list of contractors), 8 story, U-shaped, 220 x 360 ft., brick, terra cotta and rein.-con., Camp Bowie Blvd. between Carrol St. and St. Louis & San Francisco Ry. tracks. Private plans. $2,000,000. Noted Dec. 1.

Tex., Ingleside—OIL REFINERY—See "Contracts Awarded."

Calif., Fresno — ICE PLANT — Pacific Fruit Express Co., 65 Market St., San Francisco, taking bids 165 x 440 ft., rein.-con., here. To exceed $500,000. Private plans.

Calif., Los Angeles—FACTORY—Firestone Tire & Rubber Co., South Main St., Akron, O., taking bids (1st unit) incl. 4 story, 100 x 380 ft. warehouse, 80 x 100 ft. mechanical building and 103 x 113 ft. power house, Manchester Ave. and Alameda Sts., here approximately $1,000,000. Plans later 1 and part 2 story, 380 x 425 ft. factory, 2 story, 50 x 260 ft. office building, all foregoing steel and rein.-con., here. Total $7,000,000.

South America, Colombia, Medellin — POWER HOUSE, etc.—Dec. 31, by Municipality, hydro-electric scheme, incl. electric power house, transmission lines, electric generators, transformers, wires, telephones, etc.

Contracts Awarded

Me., Bath — GARAGE, REPAIR SHOP, etc. — Lewiston Buick Co., C. L. Curtis, mgr., 65 x 125 ft. garage showroom and repair shop, Commercial St., to D. Lemieux, 15 Russell St., Lewiston. Archts. est. $40,000.

Me., Portland—PLANT—Winslow & Co., Inc., Forest Ave., reconstructing 4 story, brick, plain foundation, recently destroyed by fire, to Googins & Clark, 46 Portland St. Archts. est. $250,000. Noted Dec. 8.

Me., Westbrook—MILL—S. F. Warren Paper Mill will build 2 story addition, by day labor. Private plans. Noted June 2.

Mass., Cambrdige (Boston P. O.)—AUTO BODY SHOP—Cambridge Sheet Metal Co., 295 Franklin St., 1 story, 60 x 85 ft., brick, plain foundation, Franklin St., to M. W. Ryan, 763 Massachusetts Ave.

Mass., Cambridge (br. Boston)—REPAIR and SERVICE GARAGE—Auto Windshield Garage, c/o H. H. White, had plans prepared 2 story, rein.-con. and steel, plain foundation, University Pl. To exceed $40,000. Private plans.

Mass., Cambridge (br. Boston) — REPAIR and SERVICE GARAGE — Auto Windshield Garage, H. H. White, University Rd., 2 story, rein.-con. and steel, plain foundation, 25-31 University Rd., to J. W. Bishop Co., 683 Atlantic Ave., Boston. To exceed $40,000. Noted Dec. 15.

Mass., Cambridge (Boston P. O.)—WAREHOUSE, etc.—Jordan Marsh Co., 450 Washington St., Boston, altering and constructing 95 x 380 ft. top addition, Memorial Dr., to M. C. Tuttle Co., Park Sq. Bldg., Boston. Archts. est. $150,000 or more.

Mass., Quincy (Ind. br. Boston)—FACTORY—Boston Gear Wks., 28 Haywood Pl., 3 story, 65 x 95 ft., brick and timber, plain foundation, Haywood Pl., to Clark & Smith, 13 Temple St. Archts. est. $50,000.

N. Y., Hoosick Falls — PLANT — Twin States Gas & Electric Co., 510 Main St., Bennington, Vt., plant, here, to M. C. Tuttle Co., Park Sq. Bldg., Boston, Mass. Archts. est. to exceed $40,000.

N. J., Camden — BUS GARAGE — Pub. Serv. Ry. Co., 80 Park Pl., Newark, 1 story and basement, 187 x 353 ft., rein.-con., brick and steel, concrete pile foundation, 16th and Mickle Sts., to Bennett-McLaughlin Co., 3434 Sansom St., Phila., Pa.

N. J., Orange—FELT MANUFACTURING PLANT—Blue Ribbon Felt Co., Inc., 63 Cordier St., Irvington, 1 story and basement, 15 x 110 x 190 x 240 ft., brick and steel, plain foundation, here, to J. F. Mitchell & Co., 30 Church St., New York City. $40,000.

N. J., Deep Water Point (mail Penns Grove)—STEAM POWER PLANT—Amer. Gas & Electric Co., 30 Church St., New York City, awarded contract for design and construction steam power station, incl. two 50,000 kw. units, etc., here, to Stevens & Wood, Inc., 120 Bway., New York City. Engrs. est. $10,000,000 or $11,000,000. Total expenditure $20,000,000.

Ala., Alabama City — POWER PLANT, etc.—Gulf States Steel Co., power plant, coke ovens and finishing mills, etc., to Dwight P. Robinson, Inc., 129 East 46th St., New York City. Engrs. est. $3,000,000.

Miss., Water Valley—CHEESE FACTORY—H. K. Hunter, mgr. Yolobusha Milk Products Co., general contract 2 story cheese factory, brick and timber, to J. Cole, Water Valley. $31,448. Noted Oct. 27.

La., Lake Charles—ICE PLANT—Gulf States Utilities Co., ice plant addition, to P. O. Oliver & Son, Lake Charles, $80,000. Noted Nov. 17.

Tenn., Athens — KNITTING MILLS — Warwick Knitting Mills, 2967 Atlantic Ave., Brooklyn, N. Y., knitting mills, 55,000 ft. floor space, here, to T. Sherman, Athens. Archts. est. $300,000.

Ind., Indianapolis — PLANT — Republic Creosoting Co., 736 North Miami St., general contract brick and steel factory, to Central States Bridge Co., 601 Beecher St. Archts. est. $40,000.

Ind., Indianapolis—PLANT—Smith Agricultural Chemical Co., 1850 Kentucky Ave., will build steel factory. Private plans. Archts. est. $40,000.

Ind., Shelbyville—PLANT—Shelbyville Mild Products Co., general contract 4 story, 50 x 160 ft., rein.-con., brick and steel, to H. O. Phares, Shelbyville. Archts. est. $40,000.

Mich., Detroit—AUTOMOBILE PLANT—Chrysler Motor Corp., Kercheval Plant, 12265 East Jefferson Ave., 1 story, 150 x 150 ft., brick and steel addition, plain foundation, Kercheval Ave., to C. O. Barton, 508 Free Press Bldg. Archts. est. $65,000.

Mich., Flint—CHEMICAL PLANT—E. I. DuPont de Nemours, Hamilton Ave., 2 story and basement, 45 x 85 ft., brick and steel, plain foundation, St. John St., to W. E. Wood Co., 1805 Ford Bldg., Detroit. Archts. est. $50,000.

Mich., Grand Rapids—ICE PLANT—Consumers Ice Co., Market St., 1 and 2 story, 67 x 129 ft., brick, steel and tile, plain foundation, Market Ave., to J. Perkins & Sons, Perkins Bldg. Archts. est. $50,000.

Mich., Lansing—FERTILIZER PLANT—Michigan Fertilizer Co., Hymont St., 2 story, 165 x 415 ft., rein.-con. and brick,

Buildings—Industrial (Continued)

plain foundation, Hymont St., to H. G. Christman Co., 300 Blk. S. Archts. est. $115,000.

Mich., Saginaw—ICE CREAM PLANT—M. & B. Ice Cream Co., Water and Johnson Sts., 2 story and basement, rein.-con. and brick addition, plain foundation, to W. C. Henderson & Son, Saginaw. Archts. est. $50,000. Noted Nov. 17.

Ill., Chicago—SHOP—W. F. Hall Printing Co., 4600 Diversey Ave., masonry and carpentry contract 1 story, 114 x 313 ft., brick, 2959-303 Knox Ave., to J. Hammond Co., 2234 Flournoy St. Archts. est. $100,000.

Ill., Chicago — FACTORY — A. Epstein, archt., 2001 West Pershing Rd., masonry contract 3 story, 55 x 300 ft., brick, 1013-19 North Cicero Ave., to Anderson & Windblad, 6235 South Michigan Ave.; carpentry contract, to Heidel & Beck, 6235 South Michigan Ave., for Schutter-Johnson Candy Co., 20 North Jefferson St. Archts. est. $300,000. Noted Dec. 1.

Minn., St. Paul—FACTORY—Minnesota Mining & Mfg. Co., Forest and Fauquier Sts., general contract rebuilding 2 story, 152 x 577 ft., rein.-con. and brick, recently destroyed by fire, Forest and Fauquier Sts., to Struchen & Romer Co., 655 Shubert Bldg. Archts. est. $250,000.

Mo., St. Louis—PLANT—Union Cooperage Co., 2nd and Penrose Sts., 2 story, 80 x 115 ft., concrete and brick addition, to Humes-Deal Constr. Co., Arcade Bldg. Archts. est. $55,000.

Mo., St. Louis—FACTORY—Hemp & Co., 1945 South Vandeventer Ave., altering and repairing 2 story and basement, rein.-con. and brick, South Vandeventer Ave., recently damaged by tornado, to Widmer Eng. Co., 612 Laclede Gas Light Bldg. Archts. est. $45,000.

Tex., Corpus Christi — BOTTLING PLANT—Southern Bottling Co., 1406 Lipan St., general contract 50 x 140 ft., brick, tile and concrete bottling plant, to E. Madero, Corpus Christi, $70,000. Noted Nov. 24.

Tex., Ingleside — OIL REFINERY — Humble Oil & Refining Co., c/o Frost Bldg., San Antonio, will build 8,000 bbl. refinery plant, here, by day labor. $500,000. Private plans. Noted Aug. 18.

Okla., Oklahoma City—BAKERY—C. J. Patterson Corp., 4050 Penn St., Kansas City, Mo., 2 story and basement, 140 x 150 ft., rein.-con. and brick, here, to Fogel Constr. Co., 619 Reliance Bldg., Kansas City, Mo., Archts. est. $75,000.

Okla., Tulsa—BAKERY—C. J. Patterson Corp., 4050 Penn St., Kansas City, Mo., 2 story and basement, rein.-con. and brick, here, to Fogel Constr. Co., 619 Reliance Bldg., Kansas City, Mo. Archts. est. $75,000.

Calif., Los Angeles—CANDY FACTORY—L. J. Christopher Candy Co., 2101 South Los Angeles St., 2 story, 90 x 120 ft., brick, 22,000 sq.ft. floor space, 37th St. and Avalon Blvd., to G. A. Boyer, 372 Walnut Ave., Walnut Park, $100,000.

Calif., Stockton — CANNING PLANT — Thomas Canning Co., Filbert St. and Miner Ave., 3 buildings, incl. 50 x 200 ft. main plant with 40 x 85 ft. wing, 25 x 30 ft. power house, all steel, Filbert St., to Michel & Pfeffer, 10th and Harrison Sts., San Francisco.

Ont., Niagara Falls—CRANE FACTORY—Herbert Morris Crane & Hoist Co., Stanley St., general contract 1 story, 80 x 160 ft., brick and steel addition, to Taber-Ford Constr. Co., 533 St. Clair Ave. W., Toronto; and structural steel, to Standard Steel Constr. Co., Welland. Archts. est. $50,000.

Buildings—Educational, Religious

Proposed Work

Mass., Boston—LIBRARY—City, Library Dept., plans improving Central Library, Copley Sq. $250,000. Engineer and architect not selected.

Mass., Brighton (Boston P. O.)—HIGH SCHOOL — City of Boston, Schoolhouse Dept., takes bids about Jan. 5, 3 story and basement, brick and limestone, plain foundation, Bennet Dist., here. $1,539,000. O'Connell & Shaw, 134 Newbury St., Boston, archts. Noted Nov. 17.

Mass., Holbrook — HIGH SCHOOL — Town, W. H. Boardman, chn. com., having sketches made by G. W. H. Webb, Holbrook, altering and constructing 2 and 3 story and basement, 65 x 85 ft., brick and stone addition to Senior High School, plain foundation, Franklin St. $150,000.

Mass., Milford—HIGH SCHOOL—Town, J. C. Lynch, chn. com., 188 Main St., having plans prepared by R. A. Cook, 57 Prospect St., 3 story and basement addition. $275,000-$300,000.

Mass., Plymouth — HIGH SCHOOL — Town, T. O. Bodell, supt. Schools, having preliminary plans prepared by Frank Irving Cooper Corp., 172 Tremont St., Boston, Mass., Junior and Senior High School, brick and steel, Lincoln St. To exceed $150,000. Noted Dec. 8.

Mass., West Lynn (Ind. Sta. Lynn) — SCHOOL—City of Lynn, Schoolhouse Dept., City Hall, plans rebuilding school, Walnut St., here., recently destroyed by fire. $150,000. Engineer and architect not selected.

Mass., Woburn—HIGH SCHOOL—City, T. H. Duffy, mayor, having sketches made 2 or 3 story and basement, brick addition, to exceed $150,000. Engineer and architect not selected.

Conn., New Britain — DORMITORY — State Normal School, State Bd. Educ., Courthouse, Hartford, having plans prepared by Guilbert & Betelle, 20 Branford Pl., Newark, N. J., 3 story and basement, brick and steel, plain foundation, here. $150,000. Noted Dec. 10.

Conn., Torrington — CHURCH — St. Maron's Church, P. Risk, pastor, having plans prepared by J. A. Jackson, 185 Church St., New Haven, 1 story and basement, 45 x 150 ft., brick, steel and stone church. $150,000.

N. Y., Brooklyn—HIGH SCHOOL—Bd. Educ., 500 Park Ave., New York City, rejected bids Nov. 7, P. S. 96 (Junior High School), Avenue P between West 11th and 12th Sts., here. Noted Oct. 20.

N. Y., Cedar Manor (mail Jamaica) — SCHOOL—Bd. Educ., 500 Park Ave., New York City, rejected bids Nov. 22, P. S. 140, 116th Ave., here. Noted Nov. 3.

N. Y., New York—SCHOOL—Bd. Educ., 500 Park Ave., rejected bids Nov. 22, addition to P. S. 82, West 176th St., from Macomb Rd. to Harrison Ave. Noted Nov. 3.

N. Y., New York—SCHOOL—Bd. Educ., 500 Park Ave., rejected bids Nov. 22, P. S. 40, East 19th St. near 2nd Ave. Noted Oct. 27.

N. Y., Rochester—CHURCH—Methodist Episcopal Union of Rochester, J. B. Kelso, chn. Bd. Trustees, 497 State St., plans church, North Clinton St. and Scofield Rd. Engineer and architect not selected.

N. Y., Rochester—SCHOOL—Bd. Educ., J. S. Mullen, secy., soon lets contract altering and constructing addition. $150,000. J. M. Tracy, 13 South Fitzugh St., archt.

N. J., Deans—SCHOOL—Bd. Educ., South Brunswick, having sketches made by A. Merchant, 52 Paterson St., New Brunswick, 2 story and basement, brick and steel, plain foundation, here. $150,000.

N. J., Passaic — HIGH SCHOOL — Bd. Educ., Hobart Bldg., having sketches made by J. F. Kelley, Prospect Ave., 4 story and basement, brick and steel, plain foundation, $350,000. Noted Sept. 1.

N. J., Raritan—SCHOOL—Bd. Educ. having sketches made by H. G. Bach, 63 Schureman St., New Brunswick, 2 story and basement, brick and steel, plain foundation, here. $150,000.

O., Cleveland—COLLEGE—Western Reserve University, S. S. Wilson, secy., 10940 Euclid Ave., plans group brick and steel college bulidings, Euclid Ave. and East Blvd. $2,500,000. Engineer and architect not selected.

O., Fairview (br. Cleveland)—HIGH SCHOOL—Bd. Educ., H. S. Hennerle, clk., 4167 West 211th St., Cleveland, having preliminary plans prepared by Fulton & Taylor, 8120 Euclid Ave., Cleveland, 2 story and basement, brick, steel and concrete high school. $250,000.

O., Mt. Healthy (br. Cincinnati) — SCHOOL—Village having plans prepared by S. Hannaford & Sons, 1024 Dixie Terminal, Cincinnati, 3 story and basement, 61 x 105 ft., brick and rein.-con., plain foundation, Compton Rd. $150,000.

Ind., LaFountaine — SCHOOL — School Trustees Wabash Co. (Wabash) having plans prepared by M. Rosenbush, 1125 Buckeye St., Kokomo, 2 story and basement, rein.-con., brick, steel and stone high and grade school. $150,000.

Mich., Detroit — CHURCH — Narden Methodist Episcopal Church had plans prepared by John Stahl & Co., 628 McKerchey Bldg., 2 story and basement, 100 x 200 ft., rein.-con., brick and steel, plain foundation, West Chicago Blvd. $400,000.

Mich., Detroit—SCHOOL—St. Monicas Parish having plans prepared by McGrath, Dohmen & Page, Wormer & Moore Bldg., (1st unit), 2 story and basement rein.-con., brick and steel, plain foundation, Midfield Ave. $150,000.

Mich., Ecorse (mail Detroit)—SCHOOL—Bd. Educ. Dist. 3 having plans prepared by J. G. Kastler & Co., Detroit Savings Bank Bldg., Detroit, 3 story, 20 room, rein.-con., brick, steel and stone addition, plain foundation, 7th Ave. $175,000.

Mich., Pontiac—HIGH SCHOOLS—Bd. Educ. plans Western and Northern High Schools, each 2 story and basement, rein.-con., brick and steel, plain foundations. $485,000 each. Engineer and architect not selected.

Wis., Kenosha—HIGH SCHOOL—Bd. Educ., having plans prepared by J. D. Chubb, 109 North Dearborn St., Chicago, Ill., Lincoln Junior High School, 3 story, 200 x 200 ft., rein.-con., brick and stone, Lincoln Park. $500,000.

Mont., Great Falls — HIGH SCHOOL — Voted $1,000,000 bonds, high school and equipment, for Bd. Educ. Bird & Van Teylinger, 814 Natl. Bank Bldg., archts.

Mo., St. Louis — CHURCH — Bethany Evangelical Lutheran Congregation, c/o A. Behnke, pastor, 4108 Natural Bridge Ave., having preliminary plans prepared by Curbusier & Foster, B. F. Keith Bldg., Cleveland, O., and L. J. Graham, associated archt., 4885 Natural Bridge Ave., 2 story and basement, rein.-con., brick and stone, Natural Bridge and Clay Aves. $175,000.

Mo., St. Louis — CHURCH — Fifth Church of Christs Scientist, W. H. Clark, chn., 3630 South Grand Blvd., takes bids early in 1928, 1 story and basement, 125 x 135 ft., rein.-con., brick and stone, Arkansas and Potomac Sts. $200,000. Wedemeyer & Nelson, 824 Wainwright Bldg., archts. Noted Nov. 10.

Ark., Little Rock — HIGH SCHOOL — City School Bd., W. N. Brandon, secy., 8th and Louisiana Sts., having preliminary plans prepared Negro High School, 2 or 3 story and basement, rein.-con. and brick. $250,000.

Tex., Port Arthur—HIGH SCHOOL—Bd. Educ., c/o H. O. Preston, pres., having plans prepared by M. Lemmon, Port Arthur, Junior High School, 3 story, rein.-con., brick and hollow tile, plain foundation. $500,000 incl. equipment. Noted Nov. 24.

Okla., Ponca City — EDUCATIONAL — Marland Industrial Institute, Inc., having plans prepared by Forsyth Corp., P. O. Box 1452, 1 story and basement, 147 x 184 ft. educational building, plain foundation. $150,000.

Wash., Pullman — SCHOOL — Bd. Regents, Washington State College, having plans prepared by S. Smith, Pullman, 4 story, 110 x 160 ft., rein.-con. and steel home economics building, incl. assembly hall, cafeteria, etc. on campus. $236,000.

Calif., Los Angeles—UNIVERSITY—Los Angeles Lutheran University having pre-

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Buildings—Educational, Religious (Cont.)

liminary plans prepared by Allison & Allison, Hiberman Bldg., 1st group, incl. 3 buildings for fine arts department, 2 classroom buildings, temporary administration and classroom building, science building, library, etc., and 2nd group, large auditorium, future administration building, girls dormitory group, stadium, 25,000-30,000 seating capacity, etc., all at Palisades del Rey. Total $5,000,000.

Calif., Monterey — HIGH SCHOOL — Monterey Union High School Dist. having preliminary plans prepared by N. F. Coulter, 46 Kearny St., San Francisco, 2 story classroom building, 1 story each, cafeteria and shop addition, all foregoing rein.-con. $200,000 bond election soon for same.

Calif., Oakland — SCHOOLS — Oakland School Dist. having plans prepared by Building and Grounds Dept., Bd. Educ., Horace Mann School, 1 story, frame and stucco, $28,000; Hawthorne School, brick assembly hall and 2 classrooms, $72,500; McClymonds School, brick gymnasium and 7 classrooms, $90,000; Oakland High School, rein.-con. shops, $60,000; Lakeview School, frame and stucco gymnasium and shop building, $78,000; Laurel School, 1 story, brick and concrete $76,000; and general shop buildings, $70,000.

Calif., Sacramento—SCHOOL—Bd. Educ. takes bids about Feb. 1, (1st unit) Lincoln School, 2 story, 150 x 200 ft., brick, steel and concrete, plain foundation, 4th and Q Sts. $295,000. Dean & Dean, California State Life Bldg., archts. Noted May 19.

Calif., San Francisco—CHAPEL—Grace Cathedral, c/o L. P. Hobart, archt., Crocker Bldg., having plans prepared, fireproof, Jones St. near California St.

Calif., San Francisco—REST HOME—Christian Scientist Benevolent Assn., c/o H. H. Gutterson, archt., 526 Powell St., plans fireproof, incl. 300 bedrooms, reception room, chapel, etc., 19th Ave. and Sloat Blvd. $1,000,000.

Ont., London — LIBRARY — Defeated $200,000 bonds, new library. Noted Oct. 27.

Bids Desired

Mass., Worcester — NURSES HOME — Worcester City Hospital, C. A. Drew, supt., taking bids superstructure brick and steel, Jacques Ave. To exceed $150,000. Fuller & Delano, 44 Front St., archts. Noted Mar. 10.

Ind., Mishawaka—SCHOOL—Dec. 30, by Hamilton, Fellows & Wilkinson, archts., 814 Tower Court Bldg., Chicago, Ill., Beiger School, 2 story and basement, 114 x 251 ft., rein.-con., brick and steel, Lincolnway and Virgil St., here, for Bd. Educ. $200,000. Noted Nov. 17.

Calif., South Pasadena—HIGH SCHOOL—Dec. 28, by South Pasadena High School Dist., 1 story main building H shaped with two 375 ft. wings, incl. auditorium 1,200 seating capacity, gymnasium, etc., Fair Oaks Ave. $275,000. N. F. Marsh & Co., 1011 Bway., Central Bldg., Los Angeles, archt. Noted Dec. 15.

Contracts Awarded

N. H., Manchester—SCHOOL—Our Lady of Perpetual Help Roman Catholic Church, 2 story and basement, brick and stone, plain foundation, Haywood St., to L. H. Shattuck, Inc., 208 Granite St. Archts. est. $150,000. Noted Nov. 17.

Mass., Somerville — HIGH SCHOOL — City, L. M. Conwell, mayor, City Hall, 2 and 3 story and basement, 80 x 175 ft., and 75 x 165 ft., brick, plain foundation, Highland Ave., to C. S. Cunningham & Co., 23 Central Ave., Lynn. $820,000.

N. J., Montclair — NURSES HOME — Mountainside Hospital, Highland Ave., having plans prepared by York & Sawyer, 100 East 42nd St., New York City, 4 story and basement, brick and steel addition, plain foundation. $450,000.

N. J., Teaneck (mail West New York)—HIGH SCHOOL—Bd. Educ., Town Hall, general contract 3 story and basement, 250 x 250 ft., brick and steel, plain foundation, to F. and C. Haerter, 769 Dewey Ave., West New York, $557,000; plumbing, to J. Boyd Plumbing & Heating Co., 100 West 72nd St., New York City, $34,975; also heating and ventilating, to Johnson Heating Co., 33 West 47th St., New York City, $63,875. Grand total $655,850. Noted Dec. 15.

Pa., Elkins Park — HIGH SCHOOL — School Dist., High School Bldg., general contract Junior High School, 3 story and basement, 55 x 70 ft., and 60 x 250 ft., brick and steel, plain foundation, Hewitt Rd. and Glenside Ave., Cheltenham Twp., to Bowden Constr. Co., 1607 Summer St., Phila., $192,488; and heating, to Bowers Bros., 2015 Sansom St., Phila., $38,450.

Pa. Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, 10th and Chestnut Sts., general contract 3 story and basement, 125 x 195 ft., rein.-con. and brick, plain foundation, Shawmont and Avon Sts., to G. H. Evans, 1416 Vine St., $404,883; and heating to A. McClintock & Co., 5608 Race St., $40,985. Noted Dec. 1.

Md., Baltimore—GYMNASIUM—Taylor & Fisher, archts., Union Trust Bldg., 2 story and basement, 75 x 187 ft., concrete, brick and stone, Roland and Belvedere Aves., to Morrow Bros., Fidelity Bldg., for Gilman School for Boys, Roland and Belvedere Aves. $175,000. Noted Dec. 1.

D. C., Wash.—SCHOOL—District Comrs., District Bldg., Barnard School addition, to J. B. Ginechesi, Inc., 1655 Conn. Ave. N.W., $108,133. Noted Nov. 24.

O., Norwood (Ind. br. Cincinnati)—SCHOOL—Sisters of Precious Blood, 3518 Montgomery Rd., 3 story and basement, brick and rein.-con. plain foundation, Fenwick St., to W. Harig Co., 31 East 4th St., Cincinnati, $475,000. Noted Oct. 24.

Ind., Elkhart—SCHOOL—School Comrs. general contract 2 story and basement, 83 x 123 ft., brick and steel, to A. I. Longacre, 433 Monger Bldg. Archts. est. $150,000. Noted Nov. 24.

Ind., Ft. Wayne — SCHOOL — Lakeside Catholic School, Delaware and Kentucky Sts., general contract 3 story and basement, 140 x 180 ft., rein.-con., brick and steel, incl. auditorium, stage, chapel and 20 class rooms, to Sheets & Carlson, 344 Utility Bldg. Archts. est. $150,000. Noted Nov. 17.

Ind., Muncie — TRAINING SCHOOL — State Normal, general contract 2 story, 116 x 262 ft., rein.-con., brick and steel, Eastern Dr., to A. J. Glazer, Muncie, $171,000. Noted Nov. 24.

Ind., Richmond—SCHOOL—Bd. Educ., general contract 2 story, brick, to H. E. Pennick, Richmond. Archts. est. $150,000. Noted Nov. 17.

Mich., Grosse Pointe (br. Detroit)—SCHOOL—Bd. Educ., 2 story and basement, rein.-con., brick and steel, plain foundation, Defer Rd., to H. M. Martens Co., 2111 Woodward Ave., Detroit. Archts. est. $150,000.

Ill., Chicago — HIGH SCHOOL — Bd. Educ., 650 South Clark St., general contract Edwin G. Foreman Junior High School, 3 story and basement, North La Claire and Belmont Aves., to J. W. Snyder Co., 307 North Michigan Ave., $653,000. Noted Nov. 3.

Wis., Milwaukee—SCHOOL—University of Wisconsin, Madison, general contract 6 story and basement, 58 x 120 ft. addition, 7th and State Sts., to W. W. Oeflein, Inc., 110 East Wisconsin Ave., $154,520.

Kan., Dodge City—HIGH SCHOOL—Bd. Educ., 3 story and basement, 140 x 343 ft., rein.-con., brick, stone and terra cotta, to J. N. Parham, Dodge City. Archts. est. $250,000. Noted Nov. 17.

Okla., Ponca City—INDUSTRIAL INSTITUTE and DORMITORY—Marland Refining Co., 2 story and basement, 50 x 200 ft., men's dormitory and 1 story and basement, 127 x 147 ft. industrial institute, both rein.-con., steel and tile, plain foundations, to G. D. Morrow & Son, 607 Kennedy Bldg., $151,000 and $148,400 respectively. Noted Nov. 17.

Federal Government Work

Proposed Work

Missouri—Dikes, etc.—U. S. Engineer Office, 701 Postal Telegraph Bldg., Kansas City, soon takes bids 3 three-row dikes at Baltimore Bend, near Dover, $90,000; 3 three-row, 4,000 ft. near Berlin Bend, $120,000; 5 three-row, 3,200 ft. near Jackson Bend, $96,000; 2 three-row at Jackson Bend, near Missouri City, $132,000; and 4 three-row, 2,070 ft. at Hinkles Bend, $62,000.

Texas—Lighthouse Service—G. R. Putnam, comr. Lighthouses, Wash., D. C., made surveys improving lighthouse service, incl. depot $16,000, gas buoys at Sabine Pass $16,000, entrance range lights at Brazos, Santiago $13,000, and navigation aids at Corpus Christi channel $37,000.

Bids Desired

N. Y., Governors Island (br. New York) — Ferry Bridge and Rack — Jan. 9, by Quartermaster, Fort Jay, rebuilding ferry bridge and rack, here; adv. E. N.-R. Dec. 22.

Pa., Pittsburgh—MANEUVER BOATS—Jan. 19, at U. S. Engineers Office, 2 steel maneuver boats.; adv. E. N.-R. Dec. 22. Noted Nov. 3.

D. C., Wash.—Towers—Dec. 27, at office Chief Clerk Dept. Commerce, 19th St. and Pennsylvania Ave. N. W., galvanized steel, skeleton towers.

Fla., Miami Beach (br. Miami)—Jetties—Jan. 7, by U. S. Engineer Office, Jacksonville; extending north and south jetties and repairing revetment at shore end south jetty, here. Noted Nov. 24.

Bids Received

N. Y., New York—Motor Generator Sets, etc.—Spec. 5547—Bureau Yards & Docks, Navy Dept., Wash., D. C., generator sets, etc. at Navy Yard, here, from General Electric Co., River Rd., Schenectady, $27,945.

N. Y., Rochester—Changes—Treas. Dept., at office Supervising Archt., Wash., D. C., Dec. 13, changes at U. S. Post Office, here, from Stewart & Bennett, Inc., 126 North Water St., $3,475. Noted Nov. 24.

D. C., Anacostia (Sta. Wash.)—Hangar—Spec. 5548—Bureau Yards & Docks, Navy Dept., Dec. 14, repairing hangar at Naval Air Station, here, from Donnell-Zane Co., Inc., 225 Bway., New York City, $3,681.

Calif., Los Angeles—Dredging—U. S. Engineer Office, 725 Central Bldg., Dec. 9, dredging East Basin Channel, Los Angeles Harbor, here, from Western Dredging Co., Security Bldg., at $0.285 per cu.yd. Noted Nov. 24.

Contracts Awarded

Conn., New Haven—Dredging—U. S. Engineer Office, Providence, R. I., dredging in Mill River, New Haven Harbor, here, to Morris & Cummings Dredging Co., Inc., 15 Moore St., New York City, $33,600. Noted Dec. 1.

Pa., Phila.—Dredging—U. S. Engineers Office, dredging and rock excavating in Delaware River, on Eddystone, Chester and Marcus Hook Ranges, to Great Lakes Dredge & Dock Co., 17 Battery Pl., New York City, $601,821.

Pa., Phila.—Dredging Sleeves—U. S. Engineer Office, rubber dredging sleeves, to Hewitt Rubber Co., 240 Kensington Ave., Buffalo, N. Y., $31,643.

D. C., Wash.—Excavation, etc.—Treas. Dept. at office Supervising Archt., excavation, etc. for Agricultural Administration Building, to English Constr. Co., 1311 H St. N.W., $77,500 (104 days). Noted Dec. 15.

Ala., Birmingham—Remodeling—Treas. Dept., at office Supervising Archt., Wash. D. C., remodeling 1st and 2nd floors U. S. Post Office and Court House, here, to J. F. Dietz, Birmingham, $14,777. Noted Dec. 1.

Ala., Montgomery—Quarters—Constructing Quartermaster, Maxwell Field, 13 non-commissioned officers quarters, to A. C. Samford, Montgomery, $67,339. Noted Dec. 15.

La., New Orleans—Revetment, etc.—U. S. Engineer Office, wooden revetment work in Barataria and Lake Borgne Levee Dists., to S. B. Schoenberger, Triumph $7,598, to P. M. Adema, Pointe-a-la-Hache $3,900, and to J. W. Bick, 1118 North Dupre St., $5,884; also levee work in Pontchartrain Levee Dist., to Lower Coast Constr. Co., Godchaux Bldg., $17,360. Grand total $34,742. Noted Nov. 10.

Wis., Sparta—Mess Halls, etc.—Quartermaster 6th Corps. Area, Chicago, Ill., 14 mess halls, dispensary and men's club, to Miller & Lamb, Tomah, $14,146. Noted Dec. 8.

Unclassified

Proposed Work

Playground, etc.—Charlestown (Sta. Boston), **Mass.**—City of Boston, Park Dept., 33 Beacon St., plans children's public playground and mothers' rest, and building with shower baths, Bunker Hill, Charles and Main Sts., here. To exceed $25,000. Private plans.

Transit Station—Dorchester (Sta. Boston), **Mass.**—City of Boston, Transit Dept., 1 Beacon St., making plans "Ashmont Station" Dorchester Rapid Transit, 1 story, concrete and steel, here. $35,000. E. R. Springer, c/o owner, engr.

Heating System — Cedar Manor (mail Jamaica), **N. Y.**—Bd. Educ., 500 Park Ave., New York City, rejected bids Nov. 22, heating system in P. S. 140, 116th Ave., here. Noted Nov. 3.

Heating System—New York, N. Y.—Bd. Educ., 500 Park Ave., rejected bids Nov. 22, heating system in P. S. 82, West 176th St. Noted Nov. 3.

Unclassified (Continued)

Gas Mains—Oyster Bay, N. Y.—Long Island Lighting Co., 19 West Main St., plans 100,000 ft. gas mains, in various streets, supplying Oyster Bay Twp., Locust Valley, etc.

Stadium and Gymnasium—Jackson, Miss.—Millsaps College having preliminary plans prepared rein.-con. stadium and gymnasium. $50,000 up. Private plans.

Airport — Knoxville, Tenn. — City plans hangars, buildings, and rein.-con. bridge for municipal airport at Dickensons Island. $170,000.

Service Tunnel—Cleveland, O.—Cleveland Union Terminal Co., Union Terminal Bldg., had plans prepared by H. D. Jouett, archt. and engr., Union Terminal Bldg., concrete service tunnel, Public Sq. $200,000.

Golf Course, Swimming Pool, etc.—Chicago, Ill.—Blue Hill Country Club, L. C. Davis, 30 North La Salle St., mgr., having plans prepared by R. M. Hyde, 8 South Dearborn St., 2 golf courses, outdoor swimming pool, clubhouse, stadium, etc. on 138 acre site, on east side Medinah Rd., Schaumburg Twp. $350,000.

Boilers and Turbines—St. Paul, Minn.—Waldorf Paper Products Co., Myrtle and Pillsbury Aves., making plans complete new equipment, incl. boilers and steam turbines. R. D. Thomas, 1200 2nd Ave., Minneapolis, engr.

Gas Pipe Line—Texas—Frank Pickrell & associates, 3721 Chester St., El Paso, making surveys and plans 220 mi. natural gas pipe line from Kermit fields, northeast to El Paso. $5,000,000.

Pipe Line—Texas—Independent Oil & Gas Co., Pecos, making preliminary surveys approximately 55 mi. 8 in. welded pipe line from Monahans to Church and Field pool in Crane Co. to loading rack on Kansas City, Mexico & Orient Ry. of Texas, in Pecos Co. $110,000. Private plans.

Gas System — Big Spring, Tex. — E. H. Hornaday plans 17 mi. 8 in. pipe line from gas fields to Howard Co., here, also complete distributing system, here. $150,000.

Fat Stock Show Improvements—San Antonio, Tex.—Fat Stock Show Assn., c/o Willow Springs Golf Club, St. Hedwig Rd., plans improving 175 acre site, incl. 100 x 225 ft. arena, 7,000 seating capacity, at East Houston St., Willow Springs Club Property. $175,000.

White Way—San Antonio, Tex.—Making plans 5½ mi. white way lighting system. $30,000 (equipment). I. Ewig, city engr.

Grade Separation—California—State Hy. Dept., Sacramento, plans grade separation over Southern Pacific R.R. tracks, on main highway 5 mi. south of Salinas, Monterey Co. State appropriates $50,000 towards cost. R. M. Morton, Strub Bldg., Sacramento, engr.

Motion Picture Stage — Los Angeles, Calif.—Fox Hills Studios had plans prepared 1 story, 280 x 400 ft. motion picture stage at Westwood. $100,000. W. Darling, Fox Film Corp., 916 South Olive St., Los Angeles, technical engr.

Police and Fire Telephone Signal — Montreal, Que. — City plans submitting referendum to ratepayers in January, police and fire, telephone and signal service. $2,000,000.

Docks, Storage Sheds, etc.—Windsor, Ont.—Canada Steamship Lines, 108 Wyandotte St. W., D. J. Bourke, engr., making plans and takes bids early in 1928, docks, storage sheds and ramp bridge. $75,000.

Grain Elevators — Alberta — Parish & Heinbacker, Ltd., Calgary, plans grain elevator, at Calgary, $75,000; also one at Stettler, $50,000.

Bids Desired

Heating and Kitchen Equipment — Beacon, N. Y.—Dec. 29, by Commissioner Dept. Correction, Home Savings Bank Bldg., North Pearl St., Albany, heating and kitchen equipment at Matteawan State Hospital, here; adv. E. N.-R. Dec. 22.

Fire Alarm System—Brooklyn, N. Y.—Dec. 30, by J. J. Dorman, comr. Fire Dept., Municipal Bldg., New York City, portion underground fire alarm system in Flatbush, Boro Park, Bensonhurst, here. Former bids rejected. Noted Dec. 8.

Plumbing, etc.—Rye, N. Y.—Dec. 27, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, plumbing and fire stand pipe systems in bath house, Rye Beach, Contr. 182P, and roofing bath house, Contr. 182R, here. J. Downer, ch. engr.; adv. E. N.-R. Dec. 22.

Street Signs—Birmingham, Ala.—Jan. 24, by A. J. Hawkins, city engr., approximately 350 complete streets signs f.o.b. Birmingham; adv. E. N.-R. Dec. 22.

De-Aerating Feed Water Heater—Cleveland, O.—Dec. 23, by City, a de-aerating feed water heater for City Hospital Building.

Lighting System—Chicago, Ill.—Dec. 29, by M. J. Kennedy, comr. Dept. Gas & Electricity, Room 614, City Hall, electric street lighting system in Northwest, 22nd St., Wabansia, Rice, Lincoln, Byron, Marquette, South Chicago, Southwest, 39th St., Walker and Westworth Dists.

Heating System—St. Louis, Mo.—Jan. 17, by Bd. Pub. Serv., 208 City Hall, heating system at City Sanitorium, $28,200; also moving and raising 1 story brick building and equipment, at Delmar and DeGiverville Aves., $4,200. L. R. Bowen, 301 City Hall, engr.

Oil Pipe Line—Texas—See "Contracts Awarded."

Contracts Awarded

Chimney—Brooklyn, N. Y.—B. S. Coler, comr. Dept. Pub. Welfare, Municipal Bldg., New York City, erecting radial brick chimney and repairing incinerator plant at King Co. Hospital, here, to J. D. Nugent, 1744 70th St., $10,367. Noted Dec. 15.

Subway—Long Island City, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, Sect. 13, Route 107, under Jackson Ave. from Arch to Queens Sts., here, to Atwell, Gustin & Morris Co., 1 Park Ave., New York City, $5,198,284. Noted Nov. 17.

Comfort Stations—New York, N. Y.—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to Riley Building & Constr. Co., 1919 Bway., comfort station at Bway. and Spuyten Duyvil Parkway, $30,932, at Fordham Rd. and Southern Blvd. $26,545, at White Plains Ave. and Gun Hill Rd. $26,872, at Fordham Rd. and Webster Ave. $23,625. Grand total $107,974. Noted Dec. 1.

Wharf—New Orleans, La.—Dock Bd., New Court House, concrete wharf, dock, shed foundation, fire walls, ramps, and paving, etc., for Poydras St. Wharf, 300 x 840 ft., and Girod St. Wharf, 250 x 530 ft., to C. A. D. Bayley & Co., Interstate Bldg., $210,300.

Underpass—Louisville, Ky.—Louisville & Nashville R.R. Co., Louisville, W. H. Courten, ch. engr., Southern R.R. Co., Wash., D. C., B. Herman, ch. engr., and Bd. Pub. Wks., underpass on 4th St., to Gould Contg. Co., 10th Ave. N., Nashville, $91,958. Noted Oct. 20.

Refrigeration Plant—St. Louis, Mo.—Bd. Pub. Serv., 208 City Hall, complete refrigeration plant in new morgue, to Crescent Eng. Co., 2642 Lafayette Ave., $23,327.

Oil Pipe Line—Texas—Humble Oil Refining Co., c/o Frost Bldg., San Antonio, will build 12 mi. 10 in. oil pipe line from Ingleside to Harbor Island at Pt. Aransas by day labor. $150,000. Private plans.

Oil Pipe Line—Texas—Independent Oil & Gas Co., Pecos, will build 23 mi. 8 in. welded pipe line from Hendricks pool in Winkler Co. to Monahans, by day labor. $90,000. Private plans.

Transmission Lines — Texas — Central Power & Light Co., c/o Frost Bldg., San Antonio, 68 mi. transmission line between Del Rio and Uvalde, also 100 mi. transmission line from power plant near Del Rio connecting with north line at Val Verde-Crockett Co., divisional lines, to L. E. Myers Constr. Co., 53 West Jackson Blvd., Chicago, Ill., approximately $90,000 and $140,000 respectively. Noted Dec. 1.

Trout Farm—Rocky Ford, Colo.—D. V. Burrell (owner and builder) will build trout farm, incl. ten 18 x 150 ft. lakes. $100,000.

Lighting System—Alhambra, Calif.—For 198 Permestand posts for ornamental lighting system on Valley Blvd. from Garfield St. to west city limits, to J. C. Perry, Detwiler Bldg., Los Angeles, $71,717.

Wharf — San Pedro, Calif. — Harbor Comn., Los Angeles, will extend 44 x 268 ft. wharf, creosoted wood piling with 3 in. cedar deck, also rip-rap protection wall, etc., Berth 151, here, by force account. C. F. Nicholson, city harbor engr. Former bids rejected. Noted Dec. 15.

Wharf—Sorel, Que.—Dept. Pub. Wks., Ottawa, constructing wharf, here, to A. Giguere, Shawinigan Falls, $29,510.

Wharf — Bella Bella, B. C. — Dominion Govt., Ottawa, Ont., constructing wharf and improvements, here, to J. Currie, Prince Rupert, $25,500.

Materials

Bids Desired

Composition Castings—Boston, Mass.—Dec. 29, by Supply Dept., 10,000 lb. No. 1, 20,000 lb. No. 2 and 1,000 lb. No. 3 composition castings. H. S. Frost, supt.

Gate Valves—Boston, Mass.—Dec. 23, by Dept. Pub. Wks., one hundred 6 in. gate valves. J. H. Sullivan, comr.

Asphaltic Cement—Brooklyn, N. Y.—Dec. 28, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, 600,000 gal. asphaltic cement for sheet asphalt and bituminous concrete mixtures, 15,000 cu.yd. asphalt sand, 4,000 net tons limestone or other inorganic dust, 10,000 cu.yd. binder stone, 6,000 cu.yd. sand for paving and concrete, 6,000 cu.yd. 1½ in. coarse aggregate, either broken stone or gravel, 10,000 bbl. portland cement, and 15,000 cu.yd. steam cinders.

Pipe, etc.—New York—Jan. 6, by P. J. Dooling, comr. Purchase, Municipal Bldg., pipe, pipe fittings, valves, engineers, plumbers and steamfitters supplies, to Dept. Fire and Police, Correction, etc.

Stokers, etc. — Kent, O. — Bd. Trustees Kent Normal School, Ronan & Ingleson, purch. agts., 1614½ North High School, Columbus, in market two 250 hp. boilers, 2 large stokers, conveyors, etc. $50,000.

Pumps—Yellow Springs, O.—Jan. 11, by Village, C. H. Ellis, clk. Bd. Trustees Pub. Affairs, motor driven and gasoline engine driven pumps, both 150 gal. capacity.

Gravel—Louisiana—Jan. 3, by State Hy. Comn., Baton Rouge, washed gravel for Leesville-Texas Highway, Project 322-C, Vernon Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, engr.

Water Meters — El Reno, Okla. — City Manager in market one hundred ⅝ in. water meters and 2,000 ft. ⅝ in. lead pipe for Waterworks Dept.

Water Meters, etc. Marlow, Okla.—City in market one hundred ⅝ in. water meters and boxes.

Pump—South San Francisco, Calif.—Dec. 27, by D. McSweeney, city clk., multi-stage centrifugal pump, 750 gal. capacity.

Generator—Milton, Ore.—Jan. 23, at office F. A. Fullerton, city bus. mgr., one 1,000 kw. electrical generator direct connected with suitable hydraulic turbine and exciter, etc.; adv. E. N.-R. Dec. 22.

Pipe—Turlock, Calif.—Jan. 17, by A. P. Ferguson, city clk., 600 ft. 8 in. Matheson joint asphaltum dipped or Class "B" c.i. asphaltum dipped Bell and Spigot pipe.

Barbed Wire — Guadalajara, Mexico — Natl. Chamber of Commerce, Industry and Mines, Avenue Corona 162, in market 20 tons barbed wire for fencing.

Bids Received

Cedar Poles—Colton, Calif.—O. Phillips, city clk., Dec. 5, round cedar poles 40 ft. lengths with 8 in. tops with B treatment, ¾ in. penetration, from Jones-Thorne Co., Bartlett Bldg., Los Angeles, $14.60 each 2% discount.

Pipe — Glendora, Calif. — City, from Amer. Cast Iron Pipe Co., Detwiler Bldg., Los Angeles, 1,400 ft. 12 in. Class "B" c.i. pipe at $1.60 per ft., with alternate bid $1.49 on (bidder's) own specification.

Pipe — Vista, Calif. — Vista Irrigation Dist., approximately 65,000 lin.ft. 3- to 6-in. welded steel pipe, from Western Metal Supply Co., 215 7th St., San Diego, approximately $70,000.

Contracts Awarded

Flumes and Intakes—Iowa—See "Streets and Roads."

Steel Sheet Piling—Houston, Tex.—For 36,378 sq.ft. steel sheet piling, to Sheet Piling, Inc., 17 Johns St., New York City, $18,498. Engrs. est. $20,000.

Pipe—Arcadia, Calif.—G. G. Meade, city clk., 2,800 ft. 12 in. and 300 ft. 8 in. c.i. pipe, to Amer. Cast Iron Pipe Co., Detwiler Bldg., Los Angeles, $1.086 per ft. $241 respectively.

Steel—Los Angeles, Calif.—Los Angeles Co., to Soule Steel Co., Washington Bldg., reinforced steel for Puddingstone Dam, incl. 40,000 lb. ⅞ in. at $0.0266 and 32,500 lm. ¼ in. $0.0366 per lb. (square), 79,300 lb. ½ in. $0.0286, 2,560 lb. ¾ in. $0.0266, and 170,000 lb. ⅝ in. $0.0306 per lb. (round).

Rails—San Francisco, Calif.—Southern Pacific R.R. Co., 65 Market St., 22,025 tons steel rails, to Bethlehem Steel Co., Matson Bldg., 17,640 tons, to Colorado Fuel & Iron Co., Boston Bldg., Denver, Colo., and 30,910 tons, to U. S. Steel Products Co., Rialto Bldg.

Steel Rails—Sydney, N. S.—New York Central R.R. Co., 466 Lexington Ave., New York City, 11,000 tons steel rails, for Michigan Central Lines, to Dominion Iron & Steel Ltd., Canada Cement Bldg., Montreal, Que., $500,000.

See proposal advertising on page 104

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Analysis of Bids on Small Sewer Job at Rolla, Mo.

Four bids were received on September 2, 1927, for sewers and sewage disposal plant at Rolla, Missouri, and the contract was awarded to Joseph O'Neall of Leavenworth, Kan., at $46,862.45. Difference between high and low was $1,528.95 or approximately 3.2 per cent. Practically all of the work is in unpaved streets.

Section I of this contract covers the construction of sanitary sewers of vitrified pipe, with asphaltic joints, in trenches from 6 to 14 ft.

Borings for the work indicate very litle solid rock, but underlying the top soil which is but two or three feet in thickness is a mixture of cemented gravel known as hardpan but which is more nearly like the "caliche" of the arid parts of the country although not so closely cemented or so hard. Trenching machine operation although slow is possible and shooting is not necessary.

Section II covers the construction of an ejector station to house duplicate 50 g.p.m. sewage ejectors together with a compressed air line and 4-in. c.i. force main. The ejector station includes 34 cu.yd. concrete, and a brick superstructure in addition to the items given in the tabulation.

Section III covers the construction of a sewage disposal plant to consist of an Imhoff tank and sludge drying beds and includes 185 cu.yd. of reinforced concrete in addition to the items given.

The average cost, considering all four bids, of furnishing and laying the 8-in. and 12-in. pipe was, respectively, $0.45 and $0.72 a foot while the trenching considering (0-6) and (6-8) foot depths which constituted a greater portion of the work averaged for all four bids $0.50 and $0.58, respectively. It will be noted that on the main and outfall sewers the O'Neall Construction Co. was 2 per cent higher than the lowest bidder on that portion of the work and on the whole work there was a difference of 2 per cent.

Plans and specifications for this work were prepared by Black & Veatch, consulting engineers, Kansas City, and the work is being constructed under their supervision. Paul Hausmann, Jr., is resident engineer.

		Section I—Main and Outfall Sewers, Excavating and Backfilling Trenches	A	B	C	D
I	8,205 cu.yd.	(*a*) 0—6 ft	$0.40	$0.65	$0.50	$0.45
	9,933 cu.yd.	(*b*) 6—8 ft	.50	.70	.62	.50
	3,632 cu.yd.	(*c*) 8—10 ft	.60	.75	.90	.65
	1,234 cu.yd.	(*d*) 10—12 ft	.75	.80	1.40	.80
	50 cu.yd.	(*e*) 12—14 ft	1.00	.85	2.50	1.00
		(*f*) 14—16 ft	1.50	1.10	4.50	2.00
		(*g*) 16—18 ft	2.00	1.50	7.50	2.25
	50 cu.yd.	(*h*) solid rock excav	6.00	5.00	5.00	7.00
	140 cu.yd.	(*i*) tunnel excav	1.50	1.75	2.00	1.50
		(*j*) old sheeting	70.00	50.00	40.00	50.00
		(*k*) new sheeting	70.00	50.00	65.00	50.00
	300 cu.yd.	(*l*) embankment	.75	.75	1.00	1.00
	Sewer Pipe					
II	19,511 lin.ft.	(*a*) 8 in. vit. clay	.50	.38	.46	.45
	3,541 lin.ft.	(*b*) 12 in. vit. clay	.75	.60	.82	.70
	432 lin.ft.	(*c*) 6 in. on 8 in. wye branches	1.00	1.25	.95	1.00
	144 lin.ft.	(*d*) 8 in. cast iron	1.50	1.75	1.58	1.50
	180 lin.ft.	(*e*) 12 in. cast iron	2.00	3.00	2.45	2.50
	Sewer Appurtenances					
III	67	(*a*) standard brick manholes	80.00	55.00	50.00	75.00
		(*b*) standard concrete manholes	80.00	55.00	50.00	75.00
		(*c*) standard shallow brick manholes	80.00	....	40.00	75.00
		(*d*) standard shallow conc. manholes	80.00	....	40.00	75.00
	4	(*e*) standard brick drop manholes	90.00	65.00	65.00	85.00
	4	(*f*) standard conc. drop manholes	90.00	65.00	65.00	85.00
IV	15 cu.yd.	conc. supporting piers	20.00	15.00	18.00	20.00
V	20 cu.yd.	conc. pipe encasing	20.00	15.00	17.00	20.00
		Section II—Sewage Ejector Sta. and Force Main				
I		Excavating, etc. for sewage ejector station				
	120 cu.yd.	(*a*) earth	1.00	.80	.75	1.50
	40 cu.yd.	(*b*) loose	2.00	2.00	1.25	2.00
	10 cu.yd.	(*c*) solid rock	5.00	5.00	5.00	6.00
II		Constructing ejector station, conc. house and ejector equip. (lump sum)	4,000.00	4,200.00	4,000.00	5,000.00
III	1,420 lin.ft.	4 in. cast iron force main	.80	.75	1.10	.80
IV	2,400 lin.ft.	1¼ft. galv. wr. steel air sup. line	.35	.45	.50	.50
	10 cu.yd.	rock excav. for items III and IV	6.00	5.00	5.00	6.00
		Section III—Sewage Disposal Works				
I		Excav. etc. for Sewage Disposal Works				
	500 cu.yd.	earth	1.50	1.00	.75	1.50
	100 cu.yd.	loose rock	2.00	2.00	1.25	2.00
	150 cu.yd.	solid rock	4.00	3.00	5.00	5.00
II		Imhoff Tank & Distribution Manhole, including conc. cast iron pipe, valves: (lump sum)	5,300.00	5,740.00	....	5,500.00
III		Sludge filters: (lump sum)	1,100.00	1,510.00	....	1,500.00
IV		Excavating, etc. connecting pipe lines				
		(*a*) 8 in. vit. clay pipe	.80	.38	.40	.40
	150 lin.ft.	(*b*) 12 in. vit. clay pipe	1.00	.60	.70	1.00
	48 lin.ft.	(*c*) 8 in. c.i. pipe	1.50	1.75	1.60	1.50
	16 lin.ft.	(*d*) 12 in. c.i. pipe	2.00	3.00	2.50	2.50
V		Standard Manholes				
	4	(*a*) standard brick manholes	80.00	55.00	50.00	75.00
		(*b*) standard concrete manholes	80.00	55.00	50.00	75.00
VI		Excavating, etc. bulkhead, cu.yd.	25.00	15.00	20.00	25.00
VII	3 cu.yd.	1-2-4 concrete	25.00	37.50	18.00	25.00
		Totals	$46,862	$47,611	$48,373	$48,391

Engineering News-Record, Issue of December 22, 1927.

UNIT PRICES Continued on Page 316a

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Bridge, New York and New Jersey, Port of New York Authority plans selling bonds, takes bids in January or February. Total $16,000,000.

Office, theatre, and garage, Toronto, Ont., Syndicate, % H. F. Williams, having plans prepared, $11,000,000.

Streets, St. Louis, Mo., plans paving, $7,500,000.

Assembly Hall, New York, N. Y., Metropolitan Coliseum, Inc. had plans prepared, $5,000,000.

Sewers, St. Louis, Mo., plans sewers, $5,000,000.

School, Portland, Ore., Columbia University having preliminary plans prepared, $4,000,000.

Copper refining plant, El Paso, Tex., Phelps-Dodge Corp. plans, $3,000,000.

Pulp mill, Aberdeen, Wash., West Lumber & Pulp Co. takes bids about Jan. 20, $2,500,000.

Library, Baltimore, Md., City plans, $2,500,000.

Office, Montreal, Que., S. Wener purchased site and plans, $2,300,000.

Railway, Ontario, Canadian Nat'l. Ry. plans elevating tracks, new station, etc., $1,500,000.

Port improvements, Corpus Christi, Tex., Nueces Co. voted bonds, $1,500,000.

Apartment, St. Louis, Mo., H. B. Ansehl having preliminary plans prepared, $1,000,000.

Gas plant, Kansas City, Mo., Kansas City Gas Co. plans addition, $1,000,000.

Bids Received

Subway, New York, Bd. Transportation, Dec. 21, from Mid East Constr. Co., Brooklyn, $6,942,000.

Hospital, Marcy, N. Y., Dept. Mental Hygiene, Albany, Dec. 21, from Felton Constr. Corp., Buffalo, $1,647,838; heating from Almirall & Co., New York City, $268,991; sanitary work from C. H. Darmstadt, Inc., New York City, $144,807; and electrical work from W. H. Taverner Corp., New York City, $91,000.

School of Commerce, New York, N. Y., Bd. Trustees, College of City of New York, from Kenny Bros., Inc., $1,039,000.

Contracts Awarded

Office and hotel, Toronto, Ont., King-Adelaide Corp., general contract to W. H. Yates Constr. Co. Archts. est. $30,000,000.

Hydro-electric development, Springfield, Mo., Empire District Electric Co., New York City, will build by day labor, total, $25,000,000.

Hotel, auditorium and convention hall, Wash., D. C., R. A. Nordbloom, Boston, to J. A. Stewart Co., Inc., New York City. Archts. est. $4,000,000.

Hotel, New York, N. Y., Park Avenue—Thirty-Ninth Street Corp. to Shroder & Koppel. Archts. est. $3,000,000.

Office and store, Chicago, Ill., Schmidt, Garden & Erickson, archts., to Hegeman-Harris Co. Archts. est. $2,000,000.

School, Mt. Washington, O., St. Gregorys Seminary, to M. J. Roch[illegible]nstr. Co., Cincinnati, $1,500,000.

Bridge, Melville, La., Texas and Pacific R.R. Co. to Mississippi Valley Bridge & Iron Co., Leavenworth, Kan. Engrs. est. $1,000,000.

School, auditorium, and gymnasium, Chicago, Ill., Sisters of Providence, to W. E. O'Neill Constr. Co. Archts. est. $1,000,000.

Apartment, Baltimore, Md., Gillet Realty Corp. to Consolidated Eng. Co., $1,000,000.

News of the Week

Waterworks

Proposed Work

Miss., Ripley—Voted $48,000 bonds, complete waterworks. H. A. Mentz, Hammond, La., engr. Noted Nov. 17.

O., Kent—Kent Normal School, Ronan & Ingleson, purch. agt., 1614½ North High St., Columbus, plans large water pump, $9,000; also water softener and filtration plant, here, $10,000.

Neb., Lincoln—Country Club of Lincoln, 24th and High Sts., making preliminary plans 10,000 ft. c.i. mains, sprinkling equipment, 2 in. hose, 2 electric motors and pumps, etc. $17,000. Grant, Fulton & Letton, 525 South 13th St., engrs.

Tex., League City—Utilities Constr. Co., A. E. Quay, mgr., making preliminary surveys waterworks, distributing system, water tank on 110 ft. tower. $10,000 (materials).

Tex., Lindale — Voted $55,000 bonds, waterworks, distributing system and pumping unit, etc. Address Mayor.

Tex., San Angelo—Plans waterworks and 4½ m.g. filtration plant. $175,000. Alvord, Burdick & Howson, 6 South Dearborn St., Chicago, Ill., engrs.

Tex., Sweetwater—Takes bids about Jan. 1, improving waterworks, incl. 4,000 ft. earthen dam, 50 ft. high at Cottonwood and Bitter Creeks, tributaries Brazos River, near here. $660,000. Terrell Bartlett Engineers, Calcasieu Bldg., San Antonio, engrs.

Calif., Escondido — Escondido Mutual Water Co. made plans 2,600 lin.ft. 50 in. riveted steel, and 960 lin.ft. 18 x 22 in. riveted steel with ¼ in. penstock, etc. H. Hawgood, H. W. Hellman Bldg., Los Angeles, engr.

Calif., Long Beach—Making plans water distributing system in Belmont Shore Dist. $75,000. A. H. Adams, city engr. Noted June 9.

Calif., Redwood City—East Palo Alto Water Dist. voted $45,000 bonds, domestic water distributing system. G. A. Kneese, Courthouse, Redwood City, engr.

Calif., San Jose—Plans waterworks at Alum Rock Park. $50,000. W. Popp, city engr. Noted Nov. 18.

Ont., Sarnia — Plans extending mains from here to Point Edward. $175,000. W. J. Scott, chn. comr.

Bids Desired

Md., Williamsport — Jan. 16, by Bd. Water Comrs., c.i. bell and spigot water pipe and special castings. Whitman, Requardt & Smith, Baltimore, engrs.; adv. E. N.-R. Dec. 29.

O., Fostoria—Jan. 18, by E. A. Shuman, dir. Pub. Serv., one 3 m.g.d. cross compound pump. J. N. Chester Engineers, Union Bank Bldg., Pittsburgh, Pa.; adv. E. N.-R. Dec. 29.

Ill., Kenilworth—Jan. 16, by Village, pumping station and filter plant. Pearce, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs.; adv. E. N.-R. Dec. 29.

> *THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.*
>
> ***Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.***

Mont., Great Falls — Jan. 9, by W. H. Harrison, city clk., 2,800 gal. centrifugal pump with synchronous motor and starting equipment. M. E. Morris, city engr.

Mo., Clayton—See "Contracts Awarded."

Calif., Santa Clara — Jan. 9, by A. J. Cronin, city clk., domestic water distributing system. $100,000 or more. H. B. Fisher, Growers Bank Bldg., San Jose, engr.

Bids Received

N. Y., Brewster — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, chlorinating plant, on Peach Lake Outlet, near here, from F. N. Lewis Co., $4,996, and installing chlorine machines scales, etc., from Wallace & Tiernan Co., 1 Mill St., Belleville, N. J., $3,325. Noted Dec. 22.

N. Y., St. George—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Dec. 20, mains in McLean, Ontario and Sea Aves., here, from G. V. Cornell, Rosebank, $95,400. Noted Dec. 15.

Mich., Detroit—Bd. Water Comrs., 176 East Jefferson Ave., Springwells Water Tunnel, Sect. 6, 8,000 ft. concrete cylinder, 14 ft. diam., from J. A. Mercier, 616 Hammond Bldg., $779,901. Noted Nov. 10.

Minn., Minneapolis — F. S. Gram, city purch. agt., Dec. 22, 20 m.g. pump and motor, from Fairbanks, Morse & Co., 417 South 4th St., for Water Dept. $17,962. Noted Dec. 8.

Calif., Redwood City—E. M. Kneese, clk. San Mateo Co., 4, 6 and 8 in. c.i. pipe line in Ravenswood Water Dist., from E. W. Redman, Fresno, $23,178. Noted Dec. 1.

Contracts Awarded

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Elecrictity, Municipal Bldg., mains in Avenue T and Y, Eastern Parkway, Gatling and Kenmore Pls., etc., here, to N. DeStefano, 78 Woodstock Ave., West New Brighton, $33,330. Noted Dec. 15.

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 34th St., here, to Draganette Constr. Co., 1123 Clinton Ave., New York City, $24,480. Noted Dec. 8.

N. Y., Syracuse—Distribution system in Long Branch Water Dist., to Mondo Constr. Co., City Bank Bldg., $28,500.

N. J., Wildwood—City Council waterworks equipment to Otto Engine Wks., 33rd and Walnut Sts., Phila., Pa. $7,225.

Md., Hagerstown — Mayor and City Council, at office Bd. Water Comrs., City Hall, 31,000 ft. 24 in. c.i. pipe line from Potomac River Filtration Plant to here, Contr. 5, to J. W. McLaughlin, Jr., Pittsburgh, Pa., $86,373. Noted Nov. 17.

N. C., Asheville—Trustees Beaver Dam Water & Sewer Dist., at office of Howerton Eng. Co., engrs., 410 New Medical Bldg., water distribution system, 61,259 ft. 6- to 12-in. c.i. and 10,000 ft. 2 in. galvanized wrought iron pipe, and 500,000 gal. rein.-con. reservoirs, etc., to Kelly-Wilson Co., Asheville, $137,564. Noted Dec. 1.

Ia., Maquoketa—Jackson Co., 160 x 20 ft. high truss bridge with sixteen 17 ft. pile trestle approach spans to T. Jensen, Tracy, Minn. $26,372.

See proposal advertising on page 102

TRADE "LEADITE" MARK

Registered U. S. Pat. Office

Eliminating Repairs and Maintenance Costs

TRENTON WATER WORKS, Trenton, N. J., has been using Leadite for making joints in c. i. bell and spigot water mains for a great many years with entire satisfaction.

They have laid nearly 75 miles of c. i. pipe of various sizes with Leadite joints.

Trenton has very good paved streets and they have never had to dig up a Leadite joint for repairs during all the time they have been using Leadite. They consider this excellent performance for Leadite joints.

They find the use of Leadite has reduced to a minimum repairs and maintenance costs.

Trenton Water Works has always found Leadite joints efficient and economical.

They keep a check on their distribution svstem by water waste surveys.

During the severe winter of 1917-18 Trenton Water Works had over 2000 frozen services. Many of these services were connected to mains laid with Leadite joints. They had no difficulty in thawing, with electrical apparatus, services connected with mains which were laid with Leadite joints.

Mr. Alvin Bugbee is Superintendent of the Trenton Water Works.

Specify
and use
LEADITE
It saves at least 75%

Be sure
it is
LEADITE
and accept
no imitations

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

Kan., Dexter — Reservoir and general construction work, to Asplund Constr. Co., Enid, Okla., $2,900 and $6,000 respectively; c.i. pipe, to Amer. Cast Iron Pipe Co., 912 Scarritt Bldg., Kansas City, Mo., $6,866; hydrants and valves to Iowa Valve Co., Oskaloosa, Ia., $972, pumping equipment, to Worthington Pump Co., 710 Dwight Bldg., Kansas City, Mo., $710; and water supply, to F. G. Pauly, Winfield, $1,200. Grand total $18,648.

Mo., Clayton—St. Louis County Water Co., 6600 Delmar Blvd., University (St. Louis P. O.), will construct approximately 10 mi. 12 in. mains to serve Kinloch Park, Carsonville, Dunbar and Ramona Park Dists.; also extend mains in various other sections county, by day labor. $150,000. Private plans.

Wash., Soap Lake—City Council, double-pipe system to supply fresh and mineral water form Soap Lake, to J. M. De Blaizo Co., Yakima, $22,766.

Calif., Los Angeles—City Water & Power Comn., 10,000 ft. 4 in. and 20,000 ft. 6 in. standard screw asphaltum dipped pipe, to Haldeman Co., 2220 East 37th St., at $44.37 and $77.30 per C ft. respectively.

Calif., Ventura—Waterworks to C. Fisher, Chamber of Commerce Bldg., Los Angeles, $221,801. Noted Dec. 22.

Ont., Crystal Beach—Bertie Twp. laying 24,000 lin.ft. 4 and 6 in. c.i. mains in section west of here, to F. F. Fry Co. Ltd., 43 Scott St., Toronto, $45,097.

Sewers

Proposed Work

Mass., Melrose—Voted $100,000 bonds, sewers in various streets. Private plans.

Miss., Iuka—Voted $25,000 bonds, sewers in various streets. Palglaze & Basenberg, Birmingham, Ala., engrs. Noted July 21.

Ind., Broad Ripple — Sanitary Comn. making preliminary plans sewerage system, $406,000. C. H. Hurd, 1607 Merchants Bank Bldg., Indianapolis, engr.

Mich., Detroit — Dept. Pub. Wks. made plans 39,449 ft. vitr. crock, concrete and brick sewers, etc. in Laterals 4944, 4957, 4962, 4964, 4965, 4966, 4969, 4970, and 4912. P. A. Fellows, city engr.

Mich., Detroit—Dept. Pub. Wks. making plans McClellan Ave. Regulator and Diversion Chamber, 270 ft. long, rein.-con., incl. two each 24 and 30 in. flap valves, McNulty regulators, etc. $65,000. P. A. Fellows, City Hall, engr.

Ia., Washington—City Clerk takes bids about Feb. 15, extending sewers in Southwest Dist., $150,000; and sewage disposal plant, $50,000. Howard R. Green Eng. Co., Bever Bldg., Cedar Rapids, engrs.

Mont., Missoula — Making plans main trunk, 2 sub-trunk and one intercepting sewers in various streets. $132,961. E. S. Hathaway, city engr.

Mo., Salem—Takes bids in spring sewerage system. $30,000. Alexander Eng. Co., Woodruff Bldg., Springfield, engrs.

Mo., St. Joseph—Rejected bids extending northeast fork Whitehead Sewer, incl. 15,776 ft. 12 to 18 in. vitr. clay and 24 ft. 18 in. c.i. pipe, 42 standard manholes, etc. $55,600; also northeast fork Whitehead Main Sewer, 929 ft. 24- to 36-in. rein.-con. and 360 ft. 12 in. vitr. clay pipe, etc., $8,000. Will readvertise. W. M. Spann, City Hall, engr.

Mo., St. Louis—Bd. Pub. Wks., City Hall, takes bids early in 1928, extending Rock Creek Dist. Sewer, approximately 900 ft. various sized brick, segmental block, or vitr. clay pipe. $90,000. W. W. Horner, City Hall, engr. Noted Sept. 29.

Mo., St. Louis—Plans sewers in various streets. $5,000,000. W. W. Horner, City Hall, engr.

Mo., St. Louis—Making preliminary plans Palm Street Relief Sewer, approximately 1 mi. 12 and 15 ft. rein.-con. and brick pipe, etc. $500,000. W. W. Horner, 300 City Hall, engr.

Ark., Fort Smith—Voted $84,000 bonds, extending and improving vitr. sewers in Rogers and Towson Ave. W. H. Evans, city engr.

Ark., Fort Smith — See "Streets and Roads."

Ark., Fort Smith—Voted $80,000 bonds, sewers in various streets.

Ark., Hot Springs—Oakland Sewer Impvt. Dist. made plans sewer and disposal plant. To exceed $25,000. Black & Veatch, 700 Mutal Bldg., Kansas City, Mo., engrs.

Tex., Marlin — Plans sewage disposal plant, on site on Brazos River. $80,000. Address J. M. Kennedy, mayor.

Okla., Allen—Making preliminary plans sewerage system. $30,000. Engineer not selected.

Okla., Blackwell — Made preliminary plans extending sewers in South Heights Addition. $30,000. W. Ritzhoupt, Blackwell, engr.

Okla., Guthrie—Plans 16,000 ft. 8 and 10 in. vitr. clay sewers in Lateral Dist. 71. $27,200. T. B. Reeder, Guthrie, engr.

Okla., Mooreland—Voted $35,000 bonds, sewers in all streets. E. A. Jones, Enid, engr. Noted Dec. 1.

Okla., Norman—Made preliminary plans sewers in South View addition. $30,000. F. Cobb, Norman, engr.

Okla., Oklahoma City—Plans sewers in Shields Addition. $28,000. B. M. Hart, City Hall, engr.

Okla., Sulphur—Made preliminary plans extending sewers in various streets. $38,500. Engineer not announced.

Okla., Woodward — Plans extending sewers in various residential streets. $25,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Wash., Montesano—Voted $43,000 bonds, trunk sewerage system. Noted Dec. 30, 1926.

Calif., Beaumont — Making estimates sewerage system. To exceed $25,000. Koebig & Koebig, Title Insurance Bldg., Los Angeles, engrs.

Calif., Culver City—Defeated $400,000 bonds, improving sewers in Washington Blvd. and adjacent streets. N. B. Haus, city clk.

Calif., Gridley—Plans new sewage unit within area bounded by Spruce on south, Southern Pacific R.R. tracks on east, and city limits on north and west. To exceed $25,000.

Calif., Huntington Park—Making plans vitr. sewers in West Maywood Annex. $25,000 or more. A. H. Bean, city engr.

Calif., Los Angeles—Made plans approximately 1½ mi. cement sewer in Anaheim-Telegraph Rd. between Arizona Ave. and Augusta St., etc., Impvt. 680. $30,000 or more.

Calif., Santa Monica—Plans 10,000 ft. drainage system, etc. H. B. Carter, city engr.

Bids Desired

Md., Baltimore—Jan. 4, by Bd. Awards, sewers and drains in Distrs. H-13 and H-14, Sanitary Contr. 244. M. J. Ruark, 311 Courtland St., sewerage engr.

O., Akron—Dec. 30, by W. F. Peters, dir. Pub. Serv., 2,255 ft. 30- to 36-in. brick or segmental block intercepter sewer in Springfield Lake, $36,900; also 3,010 ft. 60 x 78 in. rein.-con., 435 ft. 8- to 24-in. vitr. clay, and 1,080 ft. 30- to 54-in. brick or segmental block trunk sewer in Elm Hill Park Dist., $127,800. J. E. Root, Municipal Bldg., engr.

Mo., St. Louis — Jan. 24, by Bd. Pub. Serv., 208 City Hall, Sect. B 1, Western Mill Creek Pub. Relief Sewer, 670 ft. 8 and 9 ft. rein.-con. lined open ditch and 2,580 ft. 7 ft. concrete lined tunnel, etc. $208,000. W. W. Horner, 300 City Hall, engr. Noted Aug. 4.

Calif., Los Angeles — Jan. 11, by Los Angeles Co. Sanitation Dist. 2, machinery and equipment for sludge beds, treatment plant at Harborside. A. K. Warren, Law Bldg., engr.

Ont., Toronto—York Twp. soon takes bids 4,300 lin.ft. 8 in. and up vitr. tile sanitary sewers in Cordelia, Louvian and Nioke Aves. $33,135. F. B. Goedile, 40 Jarves St., engr.

Ont., Toronto—York Twp. plans 4,000 lin.ft. vitr. tile sewer in Humber Blvd., $30,000. F. B. Goedike, 40 Jarvis St., engr.

Bids Received

Massachusetts—Sewerage Bd., Fort Ave., Salem, 6,230 lin.ft. 27 x 36 in. and 27 x 28 in. concrete sewer in Danvers, also c.i. pipe in Danversport, from V. Barletta, 8 Whipple Ave., Roslindale, $103,397.

Md., Baltimore — Bd. Awards, Dec. 14, sanitary sewers and storm drains in Sewer Dist. 34, Storm Water Contr. 95, from J. Matriciani, 229 South Exeter St., $61,858. Noted Dec. 8.

O., Akron—W. F. Peters, dir. Pub. Serv., Dec. 16, 3,130 ft. 30- to 66-in. sewer in Mull Ave., from T. E. McShaffrey Constr. Co., 173 South Forge St., segmental block $35,667 or brick $40,437. Engrs. est. $51,900. Noted Dec. 8.

O., Cleveland—Bd. Comrs. Cuyahoga Co., Dec. 14, 18,000 ft. 8- to 30-in. sewer in State Rd., from Nero & Patrick, 11518 Mt. Overlook Ave., segment $85,494, brick $91,214 or concrete $80,644; also 8,000 ft. 12- to 36-in. in Bway., from Ciraci Constr. Co., 3305 Milverton Rd., Cleveland Heights, segment $44,449, brick $45,824 or concrete $44,137. Noted Dec. 8.

Calif., Los Angeles — Sewer, etc., in Sweetzer and Rosewood Aves., from F. H. Brigham, 1528 Point View, $40,755.

Calif., Ventura — Sewers in various streets, from Oakland Sewer Constr. Co., 354 Hobart St., Oakland, vitr. pipe $122,033 or concrete $118,457.

Contracts Awarded

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewer in Esplanade (east side), to Coddington Ave. Contg. Co., 2883 Coddington Ave., $2,743; Yates Ave., to Anita Constr. Co., 2975 Marion Ave., $6,540; and Murdock Ave., to A. Caserta, $4,169. Grand total $13,452. Noted Dec. 8.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., sewers in West 55th St., to Paulsen Constr. Co., Vestry and Varick Sts., $27,781.

N. J., Newark—Joint Sewer Comn., Union and Essex Counties, City Hall, Sect. 4, Supplementary Joint Trunk Sewer, concrete, for East Orange, Hillside, Irvington, Maplewood, Milburn, Newark, Roselle Park, South Orange, Summit and West Orange, to Paulson Constr. Co., 21 East 40th St., New York City, $209,380. Noted Oct. 27.

Md., Baltimore — Bd. Awards, manhole frames and covers, sewer inlet and similar iron castings to Bureau Water Supply Material Contr. 65, to Amer. Brake Shoe Fdry. Co., Fulton Station, $24,815.

La., Vivian—Sanitary sewer system and disposal plant to Janes Contg. Co., South West Life Bldg., Dallas, Tex., $65,872. Noted Dec. 1.

Tenn., Knoxville—For 7,854 ft. 8 in. concrete sewers in various streets, Lincoln Park, to Murray Constr. Co., Holston Natl. Bank Bldg., $11,473.

Mich., Dearborn—R. H. Erley, engr. and city mgr., River Rouge Sanitary Interceptor, Sect. 2, to J. A. Mercier Co., 616 Hammond Bldg., Detroit. Engrs. est. $100,000.

Ill., Chicago—M. J. O'Brien, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., North Branch Sewage Pumping Station, Div. BB, to Tully & Costello, 30 North La Salle St., $2,145,000. Noted Nov. 10.

Ill., Marion—Bd. Local Impvts., sewage disposal plant, incl. sedimentation tanks, grit chamber, pump pit, dosing chamber, sprinkling filters, sludge bed, two 350 g.p.m. vertical suction centrifugal pumps, two 7.5 hp. motors, etc., to W. Lough & Son, Marion, $62,578. Engrs. est. $83,027. Noted Sept. 22.

Tex., San Antonio—For 18 in. concrete sewers in approximately 10 blocks Buena Vista St., to Walsh, Burney & Moore, c/o Frost Bldg., approximately $25,000.

Calif., Lemoore—City Clerk, 50 lin.ft. 8 in. and 6,635 ft. 15 in. vitr. outfall sewers in various streets, and pumping plant, etc., to Wheelright Constr. Co., Ogden, Utah, $26,965. Noted Dec. 22.

Calif., Lynwood—Vitr. sewer in Long Beach Blvd., etc. (A and 1 D 17), to Radich & Grancich, 773 North Eastman St., $32,448.

Calif., Santa Monica—For 31,202 ft. 8 in. vitr. clay sewer in Pico and Ocean Park Blvds., 18th to 28th Sts., to Contratto Bros., 327 Cudahy St., Walnut Park, $33,330.

Ont., Toronto—Sewer in Madison Ave., to Natl. Contg. Co., 9 Garnock Ave., $5,380; Avenue Rd., to W. E. Taylor, 22 Falcon St., $10,929; Lorindale Ave., to Kilmer & Barber, 10 Adelaide St. E., $1,007; Strathgowan Crescent and Hilda Ave., to Dileo & Co., 239 Bellwoods Ave., $3,749; and Snowden Ave., to J. H. McKnight Constr. Co., 88 St. Davids Ave., $7,397. Grand total $28,462.

Waste Disposal

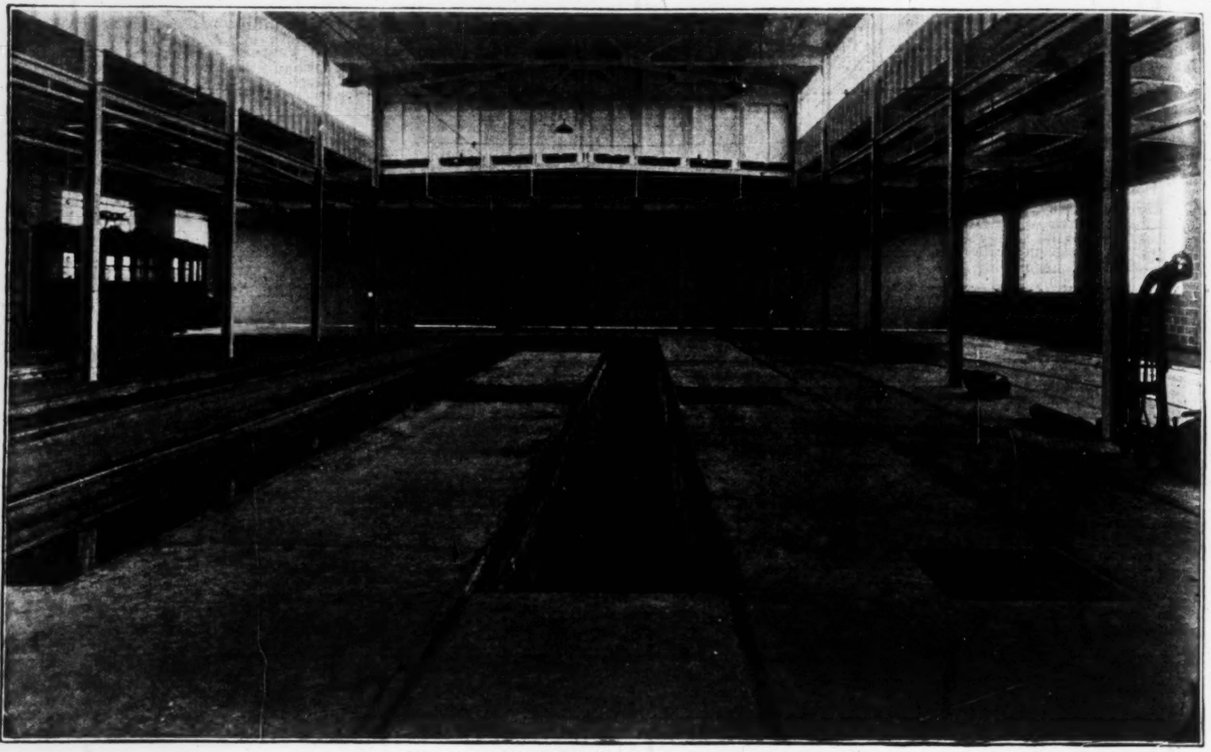
Bids Desired

N. Y., New York—Jan. 4, by A. Goldman, comr. Plant & Structures, Municipal Bldg., altering and constructing destructor plant, for Dept. Street Cleaning, 139th St. and Harlem River.

Bridges

Proposed Work

New York and New Jersey—Port of New York Authority, 75 West St., New York City, plans selling $12,000,000 bonds Jan. 5, constructing Bayonne-Staten Island Bridge over Kill van Kull, between Port Richmond, N. Y., and Bergen Point, N. J. Takes bids in January or February piers



High Strength and Early Use Gained

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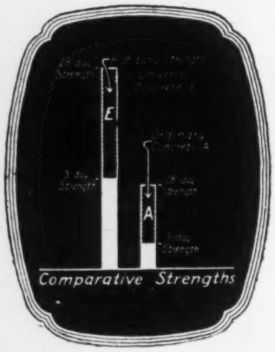

High-Early-Strength Universal Concrete is made according to approved methods with the usual materials, usual labor, usual equipment, and usual Universal cement. At 3 *days* its strength is equal to the strength of ordinary concrete at 28 *days*, and in addition it also has a higher *ultimate* strength, and therefore is *permanently* better and stronger concrete. For details, send in the accompanying coupon.

In building a new floor in its car barn at Wausau, Wis., the Wisconsin Valley Electric Co. used *High-Early-Strength* Universal Concrete. Here are the advantages gained:

Specifications called for a compressive strength of 2000 lbs. per square inch before putting the floor to use. Concrete as ordinarily placed develops this strength in 28 *days*. The *High-Early-Strength* Universal Concrete tested 1996 lbs. at 3 *days* — a saving of 25 days.

As *High-Early-Strength* Universal Concrete has a much higher *ultimate* strength in addition to a higher *early* strength, the company secured a *permanently* better and stronger pavement [see diagram].

High-Early-Strength Concrete is made without use of special materials at premium prices. It is made according to approved methods with the usual labor, usual materials, usual equipment and usual Universal cement.

High-Early-Strength Universal Concrete may be used on all types of jobs. For full details, send in the accompanying coupon.

Universal Portland Cement Co.
208 South La Salle Street, Chicago

Without obligation, please send me detailed information on methods of securing strong concrete in 3 *days* with the usual materials and equipment.

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Address ____________________

ENR 12-29-27

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for permanence-Universal Cement for durable concrete

Bridges (Continued)

and substructures for same. Total $16,000,000. Noted Feb. 17.

New Jersey—State Hy. Comn., State Bldg., Trenton, making plans 60 ft. span, double leaf bascule bridge over Cape Island Creek. Keller & Harrington, 155 North Clark St., Chicago, Ill., engrs.

Tenn., Big Sandy—State Dept. Highways & Pub. Wks. Nashville, making surveys bridge over Tennessee River, near here Stewart and Henry Counties. C. N. Bass, highway comr.

Tenn., Clarksville — State Dept. Highways & Pub. Wks., Nashville, takes bids about Jan. 9, concrete and steel bridge over Red River, near here, for State Dept. Highways & Pub. Wks., Nashville and Montgomery Co. (Clarksville). To exceed $25,000.

Illinois and Iowa—Syndicate, c/o Rock Island Chamber Commerce, Rock Island, Ill., making preliminary plans rein.-con. and steel toll bridge across Mississippi River, from Rock Island, Ill., to Davenport, Ia. $1,300,000.

Ill., Dixon—City and Lee Co. making preliminary plans rein.-con. and steel bridge across Rock River, on Peoria Ave. $175,000.

Ill., Peoria — Plans bridge over Illinois River, here. Election in spring $1,000,000 bonds, for same. W. E. Backes, City Hall, engr. Associated engineer selected soon.

Wisconsin—Ozaukee Co., W. J. Ubbink, comr., Port Washington, plans concrete bridge at Grafton and one at Saukville. $135,000.

Wis., Shawano—State Hy. Comn., Madison, making plans concrete bridge over Wolf River, here. $236,000. C. H. Kirch, Madison, bridge engr.

Wis., Sheboygan Falls—Sheboygan Co., G. W. Ubbelohde, comr., plans constructing Harmelink, Hilbelink and Andrus Bridges over Onion River, also Kuse Bridge over Pigeon River. $64,000.

Kan. Medicine Lodge—Barber Co. made plans eight 40 ft. concrete deck girder span bridge, on Federal Aid Project 400-A. L. A. Tilton, Medicine Lodge, engr.

Tex., Houston—See "Streets and Roads."

Tex., Memphis—See "Streets and Roads."

Tex., Port Lavaca — See "Streets and Roads."

Tex., San Antonio—Making plans 90 ft. rein.-con. bridge, 40 ft. driveway and 8 ft. sidewalks, over San Antonio River, on Grand Ave. $30,000. I. Ewig, city engr.

Tex., Waco—City, c/o E. E. McAdams, city mgr., made plans and takes bids after Jan. 1, 80 ft. concrete bridge, 60 ft., on North 15th St. $30,000. Noted Aug. 11.

Okla., Anadarko—Caddo Co. making preliminary plans 2 span 160 ft., steel truss bridge over Washita River, near here. $35,000. C. Riggins, Anadarko, engr.

Okla., Cashion—State Hy. Comn., Oklahoma City, making preliminary plans 2 span 160 ft. steel bridge over Cottonwood Creek, near here, Kingfisher Co. $32,000. C. R. Mandigo, Oklahoma City, highway engr.

Okla., Delhi—State Hy. Dept., Oklahoma City, making preliminary plans 3 span 100 ft. rein.-con. bridge over Delhi Creek, on Highway 66, Beckham Co., here. $40,000. C. R. Mandigo, Capitol, Oklahoma City, engr.

Okla., Holdenville—Voted $50,000 bonds, suspension bridge over South Canadian River. C. H. Edge, Holdenville, engr. Noted Apr. 7.

Okla., Nash—Grant Co., 5 span 656 ft. steel truss bridge on piers over Salt Fork River, near here, to Pioneer Constr. Co., Glover Bldg., Kansas City, Mo., $72,680. Engrs. est. $75,000.

Wash., Mount Vernon — Voted $25,000 bonds, concrete viaduct. Total $100,000. Great Northern R.R. Co., J. R. W. Davis, ch. engr., St. Paul, Minn., and Washington State Hy. Dept., Olympia, appropriate toward cost.

Wash., Olympia — Northern Pacific Ry. Co., H. E. Stevens, ch. engr., St. Paul, Minn., soon takes bids steel for 70 ft. steel and concrete bridge over Dechutes Waterway, near here. $75,000. M. F. Clements, c/o owner, bridge engr.

California—State Hy. Dept., Sacramento, appropriated $150,000 funds, bridge over Smith River, on Redwood Highway, Del Norte Co. Del Norte Co. contributes additional $60,000 toward cost. R. M. Morton, Strub Bldg.

Bids Desired

Mass., Cambridge (br. Boston)—Jan. 9, at office L. M. Hastings, city engr., draw bridge over Broad Canal on 3rd St.; adv. E. N.-R. Dec. 29.

N. Y., New York—Dec. 30, by B. M. Patten, comr. Pub. Markets, Municipal Bldg., complete car transfer bridge for Bronx Municipal Terminal Market, on Harlem River.

N. J., Eatontown—Jan. 18, by Bd. Freeholders Monmouth Co., Court House, Freehold, reconstructing 3 bridges on Shore Relief Route, here. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr.; adv. E. N.-R. Dec. 29.

Pa., Phila.—See "Materials."

Virginia—Jan. 17, by State Hy. Comn., Richmond, bridge on Project S-406-D; over Staunton River, Project F-259-B-2 and over Ogle Creek, Project S-393-B-4; also paving 1.9 mi. Project S-523-A. C. S. Mullen, ch. engr.; adv. E. N.-R. Dec. 29.

Miss., Louisville—Jan. 3, by Comrs. Road Dist. 1, Noxubee River, Naane Warrior and Town Creek Canal Bridges, 76,000 ft. treated and 3,500 ft. untreated timber, 2,400 ft. treated and 300 ft. untreated piling, 32,720 lb. structural steel and 10, lb. reinforcing.

Louisiana—Jan. 12, by State Hy. Comn., Baton Rouge, constructing Lake Lafourche Bridge, on Oak Ridge-Rayville Highway, State Project R-93-B, Morehouse and Richland Parishes. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Tennessee—Jan. 18, by State Dept. Highways & Pub. Wks., Nashville, concrete and steel bridge over Tennessee River at Perryville, Decatur Co. $900,000, concrete and steel bridge over Red River near New Providence, Montgomery Co., to exceed $25,000 and 2 concrete bridges over Tennessee Creek near Waverly, Humphrey Co., to exceed $25,000. C. N. Bass, highway comr.

Ohio—Dec. 30, by G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, bridges and approaches in Fayette, Gallia, Geauga, Hancock, Pickaway, Vinton and Washington Counties.

Wisconsin—Jan. 5, by State Hy. Comn., Court House, La Crosse, Hunter Bridge over Black River, on U. S. Highway 53 and State Trunk Highway 35, incl. 58,980 lb. reinforcing and 843,130 lb. structural steel, etc. C. H. Kirch, bridge engr. Noted Dec. 22.

Mo., St. Louis—Jan. 13, by Bd. Pub. Serv., 208 City Hall, 1,750 ft. rein.-con. viaduct, 60 ft. roadway and two 10 ft. sidewalks to carry Arsenal St. over St. Louis-San Francisco R.R. tracks. $531,000. Railroad appropriates $300,000 toward cost. Noted July 14.

Texas—See "Streets and Roads."

Tex., Wharton—Jan. 17, by R. A. Thompson, state highway engr., Austin, 2,523 ft. concrete pile trestle bridge, on State Highway 12, Wharton Co., for State Hy. Dept., Austin. $120,000. J. M. Nagle, Wharton, resident engr. Noted Oct. 6 under "Streets and Roads."

Idaho, Ririe—Jan. 10, by State Dept. Pub. Wks., J. D. Wood, comr., Boise, two 192 ft. steel and three 40 ft. concrete span bridge over Snake River, Swan Valley, east of here, Booneville Co.

Washington—See "Streets and Roads."

Ont., London—Mar. 1, by W. P. Near, engr., City Hall, three 100 ft. span concrete bridge on Dundas St. $125,000. Noted Oct. 27.

Bids Received

Md., Baltimore—Bd. Awards, Dec. 21, 119 ft. span rein.-con. arch bridge over Herring Run, on Mannasota Ave., from H. T. Campbell Sons Co., Towson, $22,785. Noted Dec. 15.

Contracts Awarded

Massachusetts—Boston & Maine R.R., W. J. Backes, ch. engr., Boston, steel bridge at Lowell, and 16 other bridges on Fitchburg Division, to Phoenix Bridge Co., 110 State St., Boston. Engrs. est. to exceed $25,000.

Ga., Jesup — S. B. Slack, bridge engr. State Hy. Dept., East Point, bridge over Altamaha River, to T. T. Sweet, embankment $79,076 to F. M. Jones, piers and trestle $221,060.

La., Melville—Texas & Pacific R.R. Co., E. F. Mitchell, ch. engr. Dallas, Tex., 6 span, rein.-con. and steel railroad bridge across Atchafalaya River, here to Mississippi Valley Bridge & Iron Co., Leavenworth, Kan., engrs. est. $1,000,000. Noted Nov. 10.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, concrete and steel bridge over Richland Creek, Project 180-C, Giles Co., to Montgomery & Parker, Rockport, Ind., $47,514; concrete deck girder bridge over Rich Creek, Project 334-C, Marshall Co., to T. O. Bagley & Co., Fayetteville, $13,099; 6 concrete pile, timber and steel bridges on Project 364, Obion Co., to Peterson & Barnhart, Montgomery, $239,399; concrete and steel bridge over Clinch River, Project 6, Hancock Co., to W. H. Shons Co., Freeport, Ill., $62,104; concrete and steel bridge over Little Tennessee River, Project 8, Monroe Co., to Southern Constr. Co., Birmingham, Ala., $155,481; bridges on Project 324-C, Hawkins Co., to Des Moines Steel Bridge Co., 421 Southwest 4th St., Des Moines, Ia., $56,983; on Bridge Project 214-B, Hawkins Co., to F. V. Ragsdale, Memphis, $58,404; 3 concrete pile bridges on State Road 5, Chester Co., to F. G. Hall, Martin, $32,299; reconditioning and repairing Harahan Viaduct over Mississippi River, Project 300-B, Shelby Co., to Atlantic Bridge Co., Greensboro, $151,899; bridges on Project 195-B, Hawkins Co., to Pittsburgh-Des Moines Steel Co., Des Moines, Ia., $56,984. Grand totoal $874,166. Noted Dec. 1.

Ohio—G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, several small concrete bridges on Sect. "O" Ohio River Rd., Gallia Co., to B. C. Patterson, Van Atta, $6,070; grading and concrete arch bridge on Sect. "F-3" Lima-Spencerville Rd., Allen Co., to Roberts Supply Co., Lima, $62,937; grading and small concrete bridges on Sect. "E" Jackson-Gallipolis Rd., Gallia Co., to Hatfield Constr. Co., 418½ 10th St., Huntington, W. Va., $24,723; also grading and constructing 40 ft. twin span concrete bridge on Sect. "L" Chillicothe-McArthur Rd., Vinton Co., to L. S. Gaty, 1544 East Broad St., Columbus, $15,243. Grand total $108,973. Noted Dec. 1.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridge on Route 142, Sect. 103-B, Fayette Co., to G. H. Goodlink, Lawrenceville, $16,177; and on Route 64, Sect. 131-B, Du Page Co., to Ferguson Constr. Co., Rockford, $26,463. Noted Sept. 15.

Kan., Clay Center — See "Streets and Roads."

Kan., Girard—See "Streets and Roads."

Kan., Topeka—Shawnee Co., Cooper and Button Creek Bridges, to A. W. Wilson Constr. Co., 1501 North Waco St., Wichita, $18,999 and $19,232 respectively; Reform School, and Tomlinson Bridges, to F. Luttjohann, 2053 Kansas Ave., Topeka, $18,392 and $13,011 respectively. Grand total $69,634. Noted Nov. 24.

Neb., Newport—T. G. Wendel, clk. Rock Co., Court House, Bassett, general contract five 70 ft. pony truss span bridge and willow mattress over Niobrara River, near here, for Keyapaha and Rock Counties to General Constr. Co., 722 Peters Trust Bldg., Omaha $25,820 and $7,000 respectively; also grading and filling, to E. W. Kolterman, 404 Securities Bldg., Omaha, $11,300. Grand total $44,120. Engrs. est. $30,000. Noted Nov. 17.

Missouri — State Hy. Comn., Jefferson City, to M. E. Gillioz, Monett, two 6 ft. concrete slab spans, etc., over creek $905, and two 5 ft. concrete slab spans, etc., at Station 359 plus 27, Bollinger Co. $613, to Koch & McGlone, Calhoun, two 5 ft. rein.-con. slab spans, etc., over creek, Cass Co., to Kelly & Underwood, Granby, two 8 ft. rein.-con. slab spans, etc., on Route 37, Sect. 2-B, Barry Co. $2,101; to Stigall Constr. Co., Springfield, three 30 ft. and one 150 ft. rein.-con. deck girder spans, etc., over Dry Sac River $10,385, three 50 ft. rein.-con. deck girder spans over Ltitle Sac River $12,857, one 8 ft. and two 5 ft. rein.-con. slab spans, etc., over creek $1,564, and two 12 ft. rein.-con. slab spans over Dry Fork $3,706, all foregoing in Greene Co.; to Stonner & Deering, Chamois, four 40 ft. rein.-con. deck girder and one 90 ft. steel truss spans, etc., over Fox River, Clark Co. $19,754; to Fritzan & Hufford, Kansas City, two 30 ft. and one 40 ft. rein.-con. deck girder, also one 84 ft. railroad truss spans, over Fishing River, Clay Co. $16,572; to S. A. Robertson Constr. Co., St. Louis, two 35 ft. and six 50 ft. concrete deck girder and one 225 ft. rein.-con. arch span, etc., over Osage River, St. Clair Co. $73,433, also four 20 ft. concrete slab spans over overflow $9,062; to Pittsburgh Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., one 25 ft., one 30 ft. and two 40 ft. I-beam spans over overflow, Dunklin Co. $10,376; and to A. E. Walesby, Jr., Independence, retaining wall on Kansas City-Liberty Rd., Clay Co. $2,591. Noted Dec. 11.

B. C., Savona—Government, Victoria, substructure concrete piers for new bridge over Thompson River, here, to Dawson, Wade & Co. Ltd., Bekins Bldg., Vancouver, $46,573.

Dams

Proposed Work

Mich., Alpena—Alpena Power Co. plans 200 ft. earth fill dam with creosoted timber gates, waste gates to have area 240 ft.

Creosoted by Republic

Signifies lasting service and economy from wooden structural materials

Whether It's
Wood Block Flooring
Railroad Ties
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A section of Republic's 80 acres at Indianapolis, showing part of the tie and pole stock on hand (Actual Photo)

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OTHER PLANTS
ST. LOUIS PARK, MINN. SEATTLE, WASH. MOBILE, ALA. NORFOLK, VA. SALT LAKE CITY, UTAH

Dams (Continued)
at 10 ft. head, over South Branch River. $25,000. Private plans.

Contracts Awarded

Mo., **Springfield**—See "Unclassified."

Railways

Proposed Work

Ontario—Canadian Natl. Ry., Union Sta., Toronto, T. Irving, ch. engr., plans elevating tracks, building new station, and 3 subways in London. $1,500,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Mass., Boston—Boston & Maine R.R., W. J. Backes, ch. engr., plans sea wall and fill solid in dock at Mystic Wharf, and Mystic River. $25,000. Private plans.

Tex., Laredo—J. Armengol making plans developing 1,000 acres land for citrus irrigation project, incl. pumping unit, lines, etc., water pumped from Rio Grande River. $25,000 (mostly equipment). Private plans.

Calif., Culver City—City Council plans petitioning Supervs. Los Angeles Co. (Los Angeles) to appropriate $300,000, deepening Ballona Creek Channel and for flood control. Osborne & Jessup, co. engrs.

Calif., Los Angeles — Plans dredging depths of 13 and 18 ft. at mean low water at Berths 261, 262, 263 along northwest side of Fish Harbor, and to depth 30 ft. at mean low water adjacent to Berth 179 on west side Slip 5, Los Angeles Inner Harbor. To exceed $25,000.

Calif., Turlock—Turlock Irrigation Dist. plans concrete lining 10 mi. canals.

Bids Desired

N. C., Fayetteville—Jan. 5, by Bd. Drainage Comrs. Cumberland Co. D. D. 3 (Sandy Creek), at office Oates & Herring, attys., Fayetteville, drainage system, approximately 173,000 cu.yd. excav. open canals, etc. E. H. Bullard, Fayetteville, chn.

Louisiana—Jan. 10, by State Hy. Comn., Baton Rouge, constructing 14.35 mi. embankment on Baton Rouge-New Orleans (Air Line) Highway, Federal Aid Project 172-A, Unit 1, Ascension and St. James Parishes. N. W. Bowden, highway engr.

Louisiana—Jan. 11, by State Hy. Comn., Baton Rouge, constructing 1,018,000 cu.yd. dredged embankment along Baton Rouge-New Orleans (Air Line) Highway, Federal Aid Project 173-B, St. Charles Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

La., Baton Rouge — Jan. 10, by Police Jury East Baton Rouge Parish, excavating and clearing 20,000 cu.yd. in Baker Canal and repairing bridges on same. F. A. Woods, secy. R. Swart, civil engr.

Ind., Rockville—Dec. 30, by Bd. Directors Lyford Dike & Levee Assn. Park Co. at office H. L. Hancock, Rockville Natl. Bank Bldg., levee and ditch work, required to protect lands and properties located within levee drainage dist. from overflow flood waters of Wabash River, etc.

Mo., Bloomfield—Jan. 4, by A. C. Spiker, engr. D. D. 40, Stoddard Co., known as I. M. Frye et al., Drainage District, constructing ditch, etc., incl. 40,998 cu.yd. excav.

Ont., Lambeth—Jan. 7, by E. S. Hunt, twp. clk., excavating Hampton Drain, 50,000 cu.yd. material, for Westminster Twp. $25,000. F. W. Farncombe, Dominion Savings Bldg., London, engr.

Bids Received

Md., Ocean City — State Roads Comn., Baltimore, Dec. 13, dredging 4,900 ft. channel, 150 ft. wide at bottom, at Sinepuxent Inlet, Contr. Wo-55, Worcester Co., 3 mi. south of here, from Neeld Constr. Co., Oliver Bldg., Pittsburgh, Pa., $92,400.

Minn., Hallock—W. F. Davnie, aud. Kittson Co., Dec. 12, constructing County Ditch 28, 84,580 cu.yd. excav., from M. E. McGraw, Litchfield, at $0.115 per cu.yd. Engrs. est. $16,557. Noted Dec. 8.

Contracts Awarded

N. Y., Brooklyn — M. Cosgrove, comr. Docks, Pier "A," Battery Pl., New York City, constructing bulkhead wall and concrete dump, Hamilton Ave. and Gowanus Canal, here, to Tilt Hargen Co., 90 West Bway., New York City, $112,596. Noted Dec. 8.

Ont., McGillivray—Twp. Council, deepening Aux Sable River, 191,000 cu.yd. excav., to Broderick Bros., Welland, $45,000. Engrs. est. $50,000.

Ont., Port Burwell — Dept. Pub. Wks., Parliament Bldgs., Ottawa, extending concrete breakwater and rubble mound checkwater, here, to Port Arthur Constr. Co., 36 Toronto St., Toronto, $435,584.

Streets and Roads

Proposed Work

Massachusetts—Dept. Pub. Wks., Boston, made plans bituminous macadam paving 5.5 mi. highway in Melrose, Malden, Saugus and Lynnfield; also 2.41 mi. Highway Newburyport and Portsmouth Route, both 30 ft. W. F. Williams, comr.

Massachusetts—Dept. Pub. Wks., Boston, made plans bituminous macadam paving 3.83 mi. highway in Townsend, 24 ft.; 2.64 mi. in Marlboro, 30 ft.; and 5.21 mi. in Bellingham and Franklin, 24 ft. W. F. Williams, comr.

Mass., Milton — Plans reconstructing Adams St. Private plans. $77,000 appropriated.

N. Y., Syracuse—Plans paving Winthrop, Harrington and Hulbert Rds. $125,000. N. F. Pitts, Jr., City Hall, engr.

N. J., Bellmawr (mail Mt. Ephraim) — Boro Council plans concrete paving Park, Adams, Bergen, Union and Carter Aves. $80,000.

N. J., Buddtown (mail Vincentown) — Southampton Twp. Com. plans grading and graveling 6½ mi. Ong's Hat Rd. and Buddtown Rd. $48,826.

N. J., Spring Lake (Spring Lake Beach P. O.)—Boro Council plans concrete paving 4.5 mi. Warren Ave., 20 ft.

N. J., Trenton—Bd. Freeholders Mercer Twp. plans improving Junction Rd., $47,000; Olden Ave., $34,000; Bear Tavern Rd., $93,000; and Hutchinsons Mill Rd., $23,000. H. F. Harris, Trenton, engr.

Pa., Pittsburgh—Plans repaving Water St. between Penn Ave. and Ross St. $100,000. Dept. Pub. Wks., City-County Bldg., engrs.

W. Va., Morgantown—Union Dist. voted $266,000 bonds, improving roads in Monongalia Co. W. S. Price, Morgantown, engr.

W. Va., Princeton—Mercer Co. Court takes bids in February, grading 2 sections Princeton-Glen Lyn Rd. $150,000. C. E. Allen, Princeton, engr.

Miss., Fayette—Jefferson Co. takes bids early in 1928, grading and gravel surfacing, etc., 15 mi. North and South Highway, 18 ft.

Miss., Water Valley — Yalobusha Co. voted $90,000 bonds, grading and graveling, etc. various roads in Beat 1.

Louisiana — State Hy. Comn., Baton Rouge, cancelled bids to have been opened Jan. 12, grading and graveling 7.024 mi. Many-Zwolle-Converse-DeSoto Parish Line Highway, State Project 398-G, Sabine Parish. Noted Dec. 15.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about Jan. 15, permanent type paving (probably concrete) 35 mi. Huntingdon-Jackson Rd., Carroll and Madison Counties. C. N. Bass, highway comr.

Ky., Covington—Kenton Co. voted $500,000 bonds, constructing various roads.

Ohio—W. A. Alsdorf, secy. Ohio Good Roads Federation, announced approximately $112,000,000 will be spent during 1928, improving roads. Federal Govt. provides $11,500,000, various counties $10,000,000, property owners by assessment against their property $1,000,000, making total $22,500,000 for reconstruction, resurfacing, maintenance and repair. States total amount from revenues for constructing and repairing will be $36,500,000, remainder to be furnished by townships and other municipalities.

O., Cincinnati—Plans grading, curbing, walks and concrete repaving, etc. 6,700 sq.yd. Sierra St. $43,240. C. O. Sherrill, city mgr.

O., Cleveland—Making plans widening and paving, etc. East 93rd St. from Kinsman Rd. to Miles Ave. $300,000. R. Hoffman, City Hall, engr.

Ind., Crown Point—Lake Co. plans paving road from Illinois state line to Industrial Ave., Gary. $116,000. Address Auditor, Gary.

Ind., Greenfield—Comrs. Hancock Co. plans constructing Deerburg Rd. also bridge, $27,000. G. O. Dunn, Greenfield, aud.

Mich., Pontiac — Oakland Co. making plans 8 in. concrete paving 8 mi. Lascher-Bloomfield Twp. Rd., 20 ft. $400,000. L. V. Belknap, Pontiac, engr.

Mich., Pontiac — Oakland Co. making plans concrete paving 9 mi. White Lake Rd. $450,000, 4½ mi. South Milford Rd. $225,000, and 1 mi. East Maple Rd. $50,000, all 20 ft. L. V. Belknap, Pontiac, co. road engr.

Ill., Chicago—West Chicago Park Comrs., J. J. McComb, secy., making plans grading, curbing, guttering, sewers, and granite block paving 303 sq.yd. and Kentucky rock asphalt paving 86,921 sq.yd. West Jackson Blvd. $610,000. R. A. Carpenter, c/o owner, engr.

Ill., Winchester — Takes bids in spring, grading, curbing and concrete paving, etc. 30,000 sq.yd. various streets. $82,000. W. A. Fuller Co., 1912 Railway Exch., St. Louis, Mo., engrs.

Wis., Fond du Lac — Fond du Lac Co., J. S. McCullough, comr., plans concrete paving 5 mi. Trunk Highway 23, $227,500; also appropriated $200,000, graveling 34 mi. various highways.

Wis., Kenosha — Shawano Co. J. F. Herzog, comr., plans concrete paving 2.3 mi. Trunk Highway 83, $70,700; also appropriated $34,500, graveling 10 mi. various roads.

Wis., Milwaukee—Milwaukee Co., W. F. Cavanaugh, highway comr., appropriated $300,000, aid constructing roads; also plans concrete paving 3.75 mi. Blue Mound Rd., Trunk Highway 15 and Capitol Dr., $342,000.

Wis., Sheboygen Falls — Sheboygan Co., G. W. Ubbelohde, comr., plans graveling, etc. various highways. $72,500.

Wis., Waukesha — Waukesha Co., C. J. Hahn, comr., appropriated $115,000, concrete paving 4 mi. Janesville Plank Rd.; also plans constructing 3.1 mi. county trunk highways, $150,000.

Wis., West Bend — Washington Co., C. Johnson, comr., plans improving 5 mi. Trunk Highway 68, $163,600; also appropriated $50,000, graveling 18 mi. various roads.

Ia., Corydon—Wayne Co. voted $800,000 bonds, grading and 6 in. concrete paving, etc. primary roads. D. L. Thomas, Corydon, co. engr.

Ia., Council Bluffs—Takes new bids in spring concrete, sheet asphalt, brick, asphaltic concrete, or warrenite paving 10,779 sq.yd. Avenue D, South 8th, Hunter, 19th and Euclid Aves. Vitr. brick paving 1,478 sq.yd. approaches to Indian Creek Bridge at Scott St. and Bway., to Wickham Bros., 19 Scott St. $2,506 and vitr. brick on concrete paving 1,000 sq.yd. approaches, 13th St. and Bway., to Wickham Bridge & Pipe Co., 1905 West Bway., $5,209; also 21,151 ft. curbs and gutters on various streets, to J. Langstrom, 715 Stutsman St. Noted Dec. 1.

Ia., Indianola—Warren Co. voted $1,000,000 bonds, improving roads.

Kan., Kinsley—Edwards Co. soon takes bids sand clay surfacing and bridging 8.398 mi. U. S. Rd., 50-S, Federal Aid Project 302-H, 28 ft. A. H. Long, Court House, engr.

Kan., Lyons—Rice Co. made plans grading and sand clay surfacing 10 mi. Project 192, 28 ft. S. Ainsworth, Lyons, engr.

Kan., Oakley—Logan Co., making preliminary plans sand clay surfacing, etc. 24.69 mi. U. S. Rd. 40-S, Project 24, 30 ft.

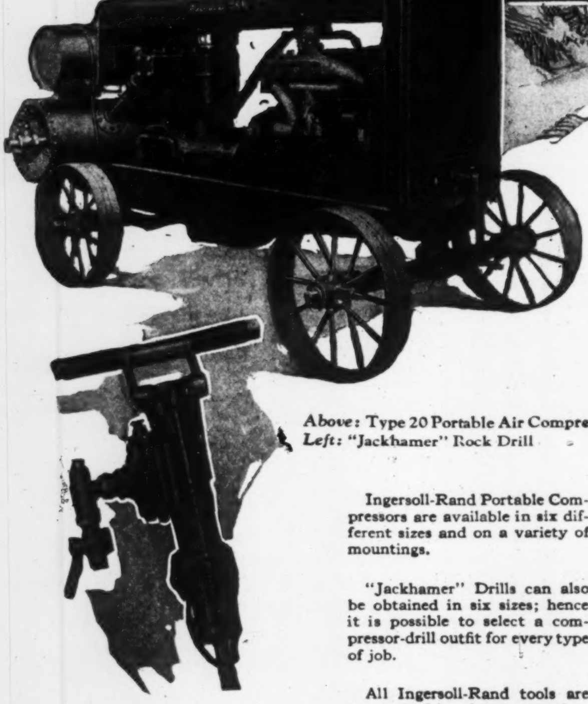
Kan., Sedan — Chautauqua Co. made plans grading and culverts on 7.077 mi. Federal Aid Project 384-B, 28 ft. C. E. Fesler, Sedan, engr.

Neb., Humboldt — Making preliminary plans grading, curbing, guttering, graveling, etc., various streets. $30,000. Grant, Fulton & Letton, 525 South 13th St., Lincoln, engrs.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bid amiesite surfacing 4,600 sq.yd. Euclid Ave. $16,400, 2,030 sq. yd. Botanical St. $14,600, 1,415 sq.yd. Columbia St. $9,350, 6,340 sq.yd. Lafayette St. $43,800, and 1,460 sq.yd. Wise Ave. $10,400; asphalt paving 2,020 sq.yd. Robin Ave. $13,-20, 7,735 sq.yd. Pendleton St. $38,700, 4,940 sq.yd. Lucky St. $11,300, 1,365 sq.yd. Garfield St. $10,360; warrenite bitulithic paving 1,110 sq.yd. Marcus Ave. $9,300, 4,780 sq. yd. Enright Ave. $33,600, 3,525 sq.yd. Eiler Ave. $24,900, and 6,395 sq.yd. Penrod St. $41,800; shallow granite block paving 7,330 sq.yd. Geraldine St. $53,600; asphaltic concrete paving 5,575 sq.yd. East Iowa, West Iowa, South Gasconade and North Gasconade Sts. $33,900, and 3,910 sq.yd. Carlsbad St. $35,500; vitr. brick paving 3,060 sq.yd. San Francisco St. $25,100, and 1,265 sq.yd. Spring Ave. $8,90; also rein.-con.

Constr. News page 319

Ingersoll-Rand Portable Compressors and Rock Drills on road-building work



Above: Type 20 Portable Air Compressor
Left: "Jackhamer" Rock Drill

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Streets and Roads (Continued)

paving 1,575 sq.yd. Penrose St. $10,100. W. W. Horner, 300 City Hall,. engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids grading and concrete paving 25,134 sq.yd. alleys in City Blocks 4038, 4087, 4812-A, 5829, 6007, 6008, 1567, 1574, 4406-A, 5938, 1819, 1969, 2702, 2704, 2874, 2952, 4390-BS, 4406-B, 4406-C, 4518, 4634 and 4699N. $77,730. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, made revised plans widening Easton Ave. between Leffingwell and Prairie Aves., $482,388; 7th Blvd. between Market and Spruce Sts., $270,686; and Vandeventer Ave. between Market St. and Washington Ave., $516,756. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Plans paving 1,500,000 sq.yd. various streets. $7,500,000. W. W. Horner, City Hall, engr.

Ark., Ft. Smith—Voted $275,000 bonds, paving various streets, $84,000 bonds, sewers, and $50,000 bonds parks and playgrounds, etc.

Ark., Pine Bluff—Preliminary plans grading, curbing and rein.-con., paving, 17th and Georgeia Sts. $90,000.

Texas—State Hy. Dept., Austin making plans grading, bridging and concrete paving 30 mi. Highway 14, in Tarrant. Denton and Wise Counties, 18 ft. $877,751. R. A. Thompson, Austin, state highway, engr.

Tex., Angleton — Brazoria Co. making surveys grading, bridging and concrete paving 10½ mi. road from intersection Highway 58 at Luters Ferry to intersection with highway at Brazoria-Matagorda Co. line via Sweeney West and Hasema. $351,000. Address S. Gaines, Angleton, co. judge.

Tex., Benjamin—Knox Co. making plans grading, bridging and concrete paving 14 mi. Highway 30 from Taylor Co. line to Haskell Co. line, 18 ft. $405,000. R. A. Thompson, Austin, state highway engr.

Tex., Corsicana—Navarro Co. voted $30,000 bonds, grading, surfacing, etc., roads in Dist. 12 between Rice and Ellis Co. line. Address W. Hicks, co. judge.

Tex., Edna—Jackson Co., making plans grading, bridging and concrete paving 22.9 mi. Highway 12, 18 ft. $900,000. A. Hungerford, Edna, resident engr. Noted Sept. 22.

Tex., Georgetown—Williamson Co. making preliminary surveys gravel surfacing 5 mi. Highway 102 from Noack to Clay Rd. Address J. C. Abbott, Georgetown, co. precinct comr.

Tex., Houston—Harris Co. making plans grading, bridging and rein.-con. paving 10.028 mi. Highway 19, Federal Aid Project 519 C, 20 ft. $320,000. A. J. Wise, Houston, co. engr.

Tex., Lefors—Gray Co. making plans grading, bridging and Bates type concrete paving 14 mi. Highway 33, $483,560; also grading, bridging and concrete or asphaltic concrete paving 17.5 mi. Highway 75, $614,130, both 18 ft. C. L. Hasie, Lefors, engr.

Tex., Memphis—Hall Co. voted $25,000 bonds, grading and bridging highway in Turkey Rd. Dist. Address A. C. Hoffman, Memphis, co. judge.

Tex., Port Lavaca—Calhoun Co., c/o E. M. Tanner, co. judge, Port Lavaca, and Refugio Co. (Refugio) T. W. McGull, judge, plan grading and bridging Hug-to-Coast Highway from Long Mott to Guadalupe River, incl. bridge across Guadalupe River. $200,000. A. Schlafli, Port Lavaca, div. engr. Noted Oct. 6.

Tex., San Antonio—Plans grading, curbing and concrete paving, etc., 6 blocks extension North St. Marys St., 40 ft. $50,000. I. Ewig, city engr.

Tex., San Diego—Duval Co. voted $575,000 bonds improving road through county and some laterals. Address G. B. Parr, San Diego, co. judge.

Tex., Wheeler—Wheeler Co. voted $1,000,000 bonds, paving 68 mi. highway through county, 16 mi. State Highway 4 from Collingworth Co. line through Shamrock and Wheeler to Moberly; and 100 mi. lateral road improvements. Address A. C. Wood, Wheeler, co. judge.

Tex., Woodville—Tyler Co. voted $133,000 bonds, constructing various roads. Address H. C. Durham, Woodville, judge.

Oklahoma—State Hy. Comn., Oklahoma City, making preliminary plans concrete paving 21,120 sq.yd. U. S. Road 75, Mayes Co. $48,000. C. R. Mandigo, state highway engr.

Okla., Anadarko — Making preliminary plans grading and 6 in. concrete paving 14,800 sq.yd. Central Blvd. $45,000. Engineer not announced.

Okla., Ardmore—Made surveys 6 in. concrete paving 9,200 sq.yd. various streets, 30 ft. $28,276. S. Mathews, Ardmore, engr.

Okla., Beckham — Making preliminary surveys grading, etc. 11 mi. State Road 13, Beckham Co. $45,000, 9 mi. State Highway 18, Greer Co. $30,000, and 10 mi. State Road 19, Nowata Co. $40,000, all 30 ft. wide. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Okla., Cashion — Plans curbing and graveling 7,000 cu.yd. Main St. $30,000. Engineer not announced.

Okla., Enid—Made surveys 6 in. concrete paving 30,600 sq.yd. streets in Kismer Addition. $97,000. F. C. Magruder, Enid, engr.

Okla., Hooker—Plans grading and paving 5 blocks Main St., 60-76 ft. $41,000. Engineer not announced.

Okla., Oklahoma City—Plans grading and sheet asphalt paving 9,660 sq.yd. 11th and Indiana Sts. $48,460. B. M. Hart, City Hall, engr.

Okla., Oklahoma City — Making plans grading, 6 in. concrete paving, etc. 9,700 sq.yd. South 28th and 29th Sts. $36,000. B. M. Hart, City Hall, engr.

Okla., Oklahoma City — Plans grading, curbing and 7 in. concrete paving 7,600 sq. yd. South 24th St. $29,050. B. M. Hart, City Hall, engr.

Okla., Perry—Making preliminary plans grading and 6 in. concrete paving 11,750 sq.yd. various residential streets. $36,000. C. A. Wood, Stillwater, engr.

Okla., Seminole—Plans grading, curbing and 7 in. concrete paving 7,200 sq.yd. Park Ave., Dist. 16. $31,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Calif., Alhambra—Making plans 5 in. asphaltic concrete paving, etc. 150,000 sq.ft. various streets. O. N. Rugen, city engr.

Calif., Huntington Park—Plans curbing, guttering, 2 in. oil and rock surfacing 1,975 sq.ft. and 5 in. asphaltic concrete paving 71,931 sq.ft. 60th Pl., etc.

Calif., Los Angeles — Los Angeles Co. plans grading, curbing and 5 in. oil macadam paving 766 sq.ft. Slauson Ave., $82,164; curbing, walks and 2 in. oil macadam paving, etc. 65,082 sq.ft. Villa St. $47,362, and 4,707 sq.ft. Pacific Ave. $36,493. G. W. Jones, Hall of Records, engr.

Calif., Monterey Park—Plans 7- to 9-in. concrete paving, etc. 6 mi. Atlantic Ave. and Garfield Blvd.

Calif., San Diego—Plans 2 in. on 4 in. asphaltic concrete paving, etc. 30,515 sq.yd. Bancroft and 32nd Sts., and 15,359 sq.yd. Meade and Ohio Sts.; grading 6 in. concrete paving, etc. 30,269 sq.yd. Boundary, Thorne, and Nile Sts. et al, 10,519 sq.yd. Olivetan St. et al, and 4,455 sq.yd. Teak and South 32nd Sts., et al; also 2 in. Warrenite on 4 in. asphaltic concrete paving, etc. 23,099 sq.yd. Monroe Ave. G. W. Jorgenson, city engr.

Calif., San Mateo—Plans curbing, guttering, walks and paving, etc. streets in Homestead Sanitary Dist. To exceed $25,000. O. F. Weissgerber, city mgr.

Que., Montreal—City plans submitting referendum to ratepayers in January, widening streets, boulevards, parks and playgrounds, also constructing bridges and subways. $27,000,000.

Ont., Strathroy—Middlesex Co. making plans concrete curbing, guttering and concrete paving 2 mi. Main St. $50,000. G. Talbot, County Bldgs., London, engr.

Bids Desired

N. Y., New York—Jan. 6, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading, curbing, sidewalks, etc., West 238th St. from Riverdale to Johnson Aves.

N. Y., St. George—Jan. 6, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and biutminous concrete paving Washington Ave.

Virginia—See "Bridges."

Florida—Jan. 10, by State Roads Dept., F. A. Hathawa, chn., Tallahassee, surface treating 9.4 mi. Project 669-X, Road 27, Collier Co.; grading, etc. 5.31 mi. Project 707, Road 43, and 11.1 mi. Project 724, Road 66, both Leon Co. J. L. Cresap, highway engr.

Louisiana—Jan. 10, by State Hy. Comn., Baton Rouge, grading 5.36 mi. Bossier City-Coushatta Highway, Federal Aid Project 174-C, Unit 1; also 2 in. Warrenite bitulithic, 2 in. bituminous concrete (modified Topeka type) or 2½ in. sheet asphalt wearing surface on concrete paving 3.863 mi. Bossier City-Coushatta Highway, Federal Aid Project 174-B, Bossier Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Louisiana—Jan. 12, by State Hy. Comn., Baton Rouge, graveling 5.839 mi. Holloway-Big Island School Highway, State Project 631, Rapides Parish; also grading and concrete, warrenite-bithulithic, shell asphalt, sandstone rock asphalt, cold mixed limestone, rock asphalt or brick on concrete paving 2.367 mi. 21st Ave., Boston, Asia and Columbia Sts. in Covington, St. Tammany Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Louisiana—Jan. 3, by State Hy. Comn., Baton Rouge, grading and graveling 6.629 mi. Winnfield-Colfax Highway, Federal Aid Project 139-B, Winn Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr. Noted Dec. 8.

La., Delhi—Jan. 19, by Mayor, grading, graveling and rein.-con. paving 3,985 sq.yd. various streets. C. D. Evans, Levy Bldg., Shreveport, engr. Noted Nov. 24.

Tennessee—Jan. 18, by State Dept. Highways & Pub. Wks., Nashville, graveling, etc. 3.5 mi. Johnson City-Elizabethton Rd., Carter and Washington Counties. C. N. Bass, highway comr.

Ohio—Dec. 30, by G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, waterbound macadam, bituminous macadam concrete, brick or sheet asphalt paving, etc. 30.542 mi. roads in Allen, Columbiana, Cuyahoga, Geauga, Hardin and Vinton Counties. $1,100,785.

O., Cincinnati—Jan. 3, by C. O. Sherrill, city mgr., City Hall, curbing, grading and sheet asphalt paving, etc., 12,500 sq.yd. 5th St., $114,418; also walks, vitr. brick paving 2,300 sq.yd. and asphaltic concrete paving 12,500 sq.yd. Woodburn Ave., $54,723.

Ind., Auburn—Jan. 3, by Bd. Comrs. De Kalb Co., grading and graveling Harvey Guthrie Highway, Butler Twp. $27,150.

Ind., English—Jan. 2, by Bd. Comrs., Crawford Co., grading and stone paving 4,050 ft. Perry Poe Rd., in Whisky Run Twp., and 10,560 ft. G. W. Morris Rd., Ohio Twp. $28,410. J. Spears, aud.

Ind., Evansville—Dec. 31, by Bd. Comrs. Vanderburgh Co., grading and asphaltic concrete paving First Avenue Rd. $120,364.

Ind., Plymouth—Jan. 3, by Bd. Comrs. Marshall Co., graveling George Staley et al. Rd., $16,779; Jay Gunder et al. Rd., Center Twp., $4,551; and Byron Carpenter et al. Rd., Center and Walnut Twps., $6,066. O. H. Weber, aud.

Ind., Shelbyville—Jan. 4, by Bd. Comrs. Shelby Co., grading and graveling 7,330 ft. John W. Meiks et al. Rd., Marion and Union Twps., $28,049. G. A. Parrish, aud.

Michigan—Jan. 6, by H. C. Fleming, resident engr., 7 Monument Sq. Bldg., Grand Rapids, grading and concrete paving 8.5 mi. M-20 Twin Lakes to Holton, 20 ft., Muskegon Co., for State Hy. Dept., Lansing. $250,000. L. H. Nielsen, Court House, Muskegon, engr.

Ill., Chicago—Cook Co. Highway Dept., 139 North Clark St., taking bids paving 2.3 mi. Southwest Highway, 1.1 mi. Crawford Ave., 2.2 mi. Dempster Ave., 0.6 mi. Devon Ave., and 3.5 mi. Dundee Rd.; widening 1.5 mi. 95th St., 3 mi. Dempster St., 3.9 mi. Waukegan Rd. and 3.5 mi. Euclid-Wilke Rd. G. $40,000-$50,000 per mile. A. Quinlan, supt.

Neb., Humphrey—Jan. 3, by Bruce & Grupe, consult. engrs., 710 Bankers Reserve Life Bldg., Omaha, 6 in. concrete paving 16,000 yd. various streets, here, for City. $45,000. Noted Nov. 17.

Texas — Jan. 16, by R. A. Thompson, state highway engr., Austin **F.A.P. Federal Aid Project)** grading and bridging 12.322 mi. Highway 28, F.A.P. 529 C, Unit 1, Cottle Co., 26 ft., $50,000; concrete paving 139,021 sq.yd. Highway 12 A, F.A.P. 436 B, Unit 2, Webb Co., $300,000; grading and bituminous macadam on sledged stone paving 5.481 mi. Highway 81, F.A.P. 440 F, Unit 2, Gonzales Co., $100,000; also asphalt on Caliche surfacing 3.402 mi. Highway 12 A, F.A.P. 424 H, Unit 2 $45,000, and 5.498 mi. same road, F.A.P. 436 G, Jim Hogg Co., and $40,000, all foregoing 18 ft. wide.

Texas—Jan. 17, by R. Thompson, state highway engr., Austin, grading and bridging 9.831 mi. Highway 12, Federal Aid Project 518 E and F, Unit 1, 26 ft., Wharton Co., $56,000, J. M. Nagle, Wharton, resident engr.; and 9-6-9 in. concrete paving 96,516 sq.yd. Highway 36, Federal Aid Project 433 A, Unit 2, Austin Co., $300,000. H. Schroeter, Belleville, engr. Noted Dec. 22 under "Belleville."

Okla., Tecumseh—Jan. 3, by C. E. Pettigrew, clk. Pottawatomie Co., grading and graveling, etc. 8,600 cu.yd. Road 21. $27,500. J. H. Merkle, Tecumseh, engr. Noted Apr. 14.

Washington—Jan. 10, by State Hy. Comn., Olympia, grading and crushed rock surfacing, etc., 9,870 cu.yd. State Road 10 Chelan Co., and 410 cu.yd. State Road 1. Skagit Co.; also grading, screened graveling, etc., 200 cu.yd. approach and constructing 3 span 97.5 ft., rein.-con. T-beam bridge on State Road 10, near Wells, Chelan Co. S. J. Humes, highway engr.

Calif., Arcadia—Jan. 4, by City Trustees, curbing and 4 in. oil macadam paving, etc. 160,000 sq.ft. Lovell Ave. and Holly St., etc.

Streets and Roads (Continued)

Calif., Los Angeles — Jan. 9, by Bd. Supervs. Los Angeles Co., grading and concrete paving 309,798 sq.ft. Rosencrans Ave. $88,536. G. W. Jones, Hall of Records, engr.

Calif., Los Angeles—Jan. 9, by Supervs. Los Angeles Co., grading and 8-6-6-8 in. concrete paving, etc., 217,489 sq.ft. San Pedro St., Impvt. 610. To exceed $120,000.

Calif, San Diego — Jan. 9, by Common Council, grading, curbing, guttering, walks and 6 in. concrete paving, etc., 220,285 sq. ft. Pescadero Ave., etc. H. W. Jorgensen, city engr.

Bids Received

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Dec. 21, grading and granite block on concrete repaving Avenue A from East Houston to 10th Sts., from J. Meehan & Son, 90 West St., $130,962. Noted Dec. 15.

New Jersey — State Hy. Comn., State Bldg., Trenton, Dec. 19, grading, bridging and 8 in. double line rein.-con. paving 47,702 sq.yd. Route 30, Sect. 6, (Revision 1927) Packers Island-Allerton Rd., Hunterson Co., from S. B. Miller, Inc., 61 Cedar Lane, Teaneck, $400,737. Noted Dec. 15.

Pennsylvania—State Hy. Comn., Harrisburg **(A. means Application and R. Route)**, grading, etc., 505 ft. R. 381, Sect. 2, Berks Co., from Dunleavy Bros. Co., Pennegar Bldg., Coatesville, $7,811; bituminous treated macadam surfacing 23,000 ft. A. 4668, Lebannon Co., from J. C. Showalter, 506 Agricultural Bldg., Lancaster, $78,675; one course concrete paving, etc., 6,200 ft. R. 302, A. 4911, Westmoreland Co., from J. L. Campbell, 320 Weldon St., Latrobe, $48,628, 4,940 ft. R. 169, A. 4156, Monroe Co., from Rudolph & Delano, 302 Peoples Trust Co. Bldg., Tamaqua, $53,331, 12,209 ft. R. 294, Sect. 1, Crawford Co., from Fort Pitt Constr. Co., 207-8 Martin Bldg., Pittsburgh, $125,409, 27,406 ft. R. 348, A. 4908, Westmoreland Co., from Cooper Constr. Co., Clymer, $265,167, 7,756 ft. R. 238, Sect. Spur A, Mercer Co., from Lewis & Frisinger Co., Sharon, $59,954, 8,691 ft. R. 260, Sect. R-2, Blair and Huntingdon Counties, from Juniata Co., 410 Empire Bldg., Phila., $113,747, 10,705 ft. R. 234, A. 4969, Clearfield Co., from Rauch & Kessler, 405 Front St., Northumberland, $93,820, and 15,192 ft. R. 295, Sect. 1, Crawford Co., from J. C. Devine Co., Alliance, O., $160,759. Noted Dec. 1.

Md., Baltimore — Bd. Awards, Dec. 14, sheet asphalt paving 13,430 sq.yd. streets listed Contr. 444, from Amer. Paving Co., Montebello Ave., $58,343. Noted Dec. 8.

Md., Baltimore — Bd. Awards, Dec. 21, sheet asphalt on concrete paving 10,700 sq. yd. streets listed in Contr. 445, from P. Flanigan & Son, Harford Rd. and Baltimore & Ohio R.R. tracks, $44,674. Noted Dec. 15.

Contracts Awarded

N. Y., Lawrence—Bd. Village Trustees, Fire House, rein.-con. paving 3.75 mi. various streets, here, to Andrew Weston Co., Inc., Woodmere, $183,000. Noted Oct. 20.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and curbing 103rd Ave., to C. Kurth, 9519 126th St., Richmond Hill $7,316; also grading and sheet asphalt paving Hosack St., to Carberry Block Co., 45 South 9th St., Brooklyn $6,342. Noted Nov. 24.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to F. Mascali, 2500 Colden Ave., grading, etc. White Plains Rd. $3,237, East 229th St. $2,593, and Fenton Ave. $4,037, to F. Gabrielle, 2750 Creston Ave., Jarvis Ave. $4,488 and Wellman Ave. $5,320, to Hanschield Constr. Co., Dudley Ave. $16,926; to Remo Realty Co., 645 East Tremont Ave., Morgan Ave. $8,263, and to T. DiRoma, 32 Evelyn Pl., Furman Ave. $17,632. Grand total $62,496. Noted Dec. 8.

N. J., Eatontown—Bd. Freeholders Monmouth Co. (Freehold), improving Shore Relief Rd., here, to E. C. Earle, Inc., Chelsea Bank Bldg., Atlantic City, $389,672. Noted Dec. 1.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to T. L. Flanagan, 531 East Girard St., grading Algon and Knorr Sts. $3,439, Bradford and Eastwood Sts. $16,842, and Lawndale St. $697, to Frank Mark Contg. Co., North and Winghocking Sts., Larnette, Charles, Erdrick, Gilham, Greeby, Levick, Passmore, Rebecca, Stirling, Tackawanna and Walker Sts. $69,800, Wenner, Comly, Devereaux, Hasbrook, Higbee, Lardner, Newton, Reach, Robbins, Stearly, Stevens and Vankirk Sts. $29,916, to Duffin Bros., Penn and Wornwroth Sts., Belden and Sishler Sts. $4,230, Burton, Fraley, Glenrock, Larue, Marsden and Simon Sts. $7,447; Erdrick St. $1,125, and McKinley St. $3,733, to J. A. Graham, 2334 South 6th St., Bigler, Cairns, Johnston, Leithgow, Orianna and 4th Sts. $20,511, to J. Herzog, 4313 Old York Rd., Cedarbrook, Fayette, Michener, Pickering, Temple and Williams Sts. $15,094, Gorgas and Forrest Sts. $7,949, to Morrissey Bros., 4336 North Marshall St., Chew St. $14,931, Ellett St. $1,017, and 4th St. $2,479, to R. B. Wenner, 2819 Gorden St., Lexington and Ryan Sts. $25,807, to H. C. Ratzell, Linekiln Pike and Haines St., Upsal St. $2,108, to L. Dolente, 5122 Master St., Mansfield St. $12,833, Smedley, Stenton and 16th Sts. $28,116, and Upsal St. $5,602, to J. F. Malloy, 15 East Mermaid St., Michener St. $5,797, Pickering and Thouron Sts. $2,532, to F. Brannen, 2507 Tasker St., Pike St. $1,599, to J. F. Nolen & Sons, 54 Church Lane, Sparks St. $1,282, to Wilson & Martin, Inc., 1501 North 2nd St., Stanwood St. $276, and to H. C. Ambler, 371 Old York Rd., H and Lycoming Sts. $10,690; to Barber Asphalt Co., 239 North 30th St., asphalt paving (assessment work), Erdrick St. between Princeton and Tyson Sts. $7,156, to Union Paving Co., 123 South 21st St., Erdrick St. between Vankirk and Benner Sts. $15,994, Pickwick St. $2,698, 18th St. $8,797, and asphalt repaving Corliss St. $2,589; to Eastern Asphalt Co., Penna Bldg., asphalt paving (assessment work) Unity St. $3,339, 58th St. $10,980, and improving 66th Ave. (country road) $6,597; to A. J. Henderson, 825 East Washington Lane, vitr. block paving Springer St. $772; and to Lewis Bokser, 1518 North 8th St., paving and repaving certain alleys $5,232. Grand total $406,838. Noted Dec. 8.

Md., Baltimore—Bd. Awards, sheet asphalt paving 7,080 sq.yd. streets listed in Contr. 443, to P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R. tracks, $36,195. Noted Dec. 1.

W. Va., Kenova—Concrete paving Poplar and other streets, to Gerchow & McGinnis, Huntington, $115,000.

Fla., Jacksonville—Duval Co., bituminous surfacing 8½ mi. Dunns Ave., to W. J. Bryson Paving Co., 239 West Adams St., $35,466.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, to S. K. Jones, 62 South Front St., Memphis, grading, etc., 11.204 mi. Project 18-B, Shelby Co., incl. 3 bridges over 20 ft. span, $69,070, to Southern Bridge Co., Dyersburg, 1.819 mi. Project 36-G, Shelby Co., incl. 1 bridge over 20 ft. span, $19,462, to R. E. Martin, Carthage, 12.189 mi. Project 121-C, Humphreys Co. $196,384, to Gorrell, Barrow & Kirkpatrick, Russellville, Ky., 10.157 mi. Project 123-E, Putnam Co. $86,600, to W. R. Aldrich & Co., Dyersburg, 12.727 mi. Project 195-B, Carroll Co. $91,078, 4.24 mi. Project 214-A, Chester Co. $47,598, and concrete paving 15.514 mi. Project 302-C, Dyer Co. $235,151, to A. E. Wood & Co., Andrews, N. C., 5.728 mi. Project 210-B, Knox Co., incl. 2 bridges over 20 ft. span $82,522, to S. H. Hall, Newbern, 11.432 mi. Project 214-B, Madison Co. $104,448, to A. A. Davis & Co., Kansas City, Mo., 17.422 mi. Project 324-B, Hawkins and Greene Counties $376,668, to Calloway & Fisher, Lenoir City, 6.661 mi. Project 372-B, Loudon Co. $61,406, to Jamison Bros., High Point, N. C., 14.134 mi. Project 371-A, Putnam Co., incl. 1 bridge over 20 ft. span $112,572, 4.842 mi. Project 372-A, Loudon Co. $77,874, and 6.466 mi. Project 313-A, Monroe Co. $45,866; to Southern Paving & Constr. Co., Chattanooga, asphaltic concrete paving 9.976 mi. Project 195-A, Carroll Co., $227,809. Grand total $1,834,508. Noted Dec. 1.

Tenn., Knoxville—Grading, asphaltic concrete on concrete paving, etc., 4,850 sq.yd. various streets, to Murray Constr. Co., Holston Natl. Bank Bldg., $46,210. Noted Nov. 24.

Kentucky — State Hy. Dept., Frankfort, **(F. A. P. means Federal Aid Project and S. A. P. State Aid Project)**, grading, etc., 2.587 mi. Beattyville-Jackson Rd., S. A. P. 29-E, Lee Co., to Maynahan & Turner, Lexington $54,038, 5.382 mi. Glasgow-Burkesville Rd., F. A. P. 116-C, Barren Co., to Ping Bros. Constr. Co., Somerset, $63,437, 3.852 mi. Hartford-Calhoun Rd., S. A. P. 66-A and 4.867 mi. Beaver Dam-Rosine Rd., S. A. P. 66-B Ohio Co., to J. B. Westerfield, Owensboro $31,806 and $31,047 respectively, 26 mi. Morehead-Big Sandy Rd., S. A. P. 49-A, Rowan and Elliott Counties, to Ashland Supply Co., Ashland, $248,195. Grand total $428,523. Noted Nov. 10.

Ohio—G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, **grading and bituminous macadam paving 6.076 mi. Sect. "F"** Painesville-Ravenna Rd., Geauga Co., to R. Strauser, Columbus, $173,382; concrete paving, etc., 0.388 mi. Sect. "Pomeroy" Ohio River Rd., Meigs Co., to Ebersbach Constr. Co., Pomeroy, $32,463; 2½ in. brick paving, etc., 4.77 mi. Sect. "N" and 1.29 mi. Sect. "Hudson" Cuyahoga Falls-Chagrin Falls Rd., Summit Co., to Costigan-Shroyer Co., Akron, $82,502 and $35,259 respectively. Grand total $323,606. Noted Dec. 1.

Ind., Crawfordsville—Montgomery Co., to Vester & Layne, Crawfordsville, concrete paving ½ mi. Shackleford Rd. $12,309, 1¾ mi. Rose Rd. $40,756, and 1 mi. Corn Rd. $24,132; to McCoun Constr. Co., Noblesville, 1¼ mi. McClure Rd., $34,630; and to Paddock, Schoen & McCoun Constr. Co., Noblesville, ½ mi. McNamara Rd. $18,525. Grand total $130,352. Noted Nov. 24.

Ind., Evansville — Comrs. Vanderburgh Co. bituminous rock asphalt paving 7 mi. Schmitt Rd., to O. T. Edmonds, Evansville, $141,890.

Ind., Goshen — Comrs. Elkhart Co., graveling John D. Weaver Rd., to Seaman Constr. Co., Goshen, $19,987. Engrs. est. $25,000.

Ind., Indianapolis — Comrs. Marion, Hamilton and Boone Counties, Court House, grading and bituminous asphalt paving 18,812 sq.yd. Carl M. Hume Rd., to Hayes Constr. Co., 1503 West 30th St., $40,170. Noted Dec. 1.

Ind., Wabash — Comrs. Wabash Co., Court House, graveling 4,181 ft. Gilbert Rd., to J. Hatch, Macy, $4,876; and 14,165 ft. Elliott Rd., to B. Hatfield, Wabash, $19,998. Engrs. est. to exceed $25,000. Noted Nov. 24.

Michigan—R. R. Havens, **resident engr., Jackson**, concrete paving 3.107 mi. FO38-17, C-1, Jackson Co., 20 ft., to State Constr. Div., C. M. Zeigler, supt., Capitol Natl. Bank Bldg., Lansing, for State Hy. Dept., **Lansing. $127,541.**

Mich., Grand Rapids—Kent Co., grading Belt Line Rd., to G. P. Scharl, Crathmore Hotel, Engrs. est. $35,000.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, grading Route 142, Sect. 103-A, Fayette and Clay Counties, to Higgins-Dyer & Co., Granite City $49,739, and Route 78, Sect. 134-A, Fulton Co., to S. J. Groves & Sons Co., Globe Bldg., Minneapolis, Minn. $31,750; grading and paving Route 145, Sects. 101 and 101-A, also bridges on Route 145, Sects. 101-B and C, Massac Co., to Hamilton-Hoffman Constr. Co., Carbondale, $160,000. Grand total $240,489. Noted Sept. 15.

Ia., Council Bluffs — See "Proposed Work."

Ia., Iowa City—Grading, curbing, guttering and 7 in. rein.-con. paving 12,736 sq.yd. Dubuque Rd., Johnson and Kirkwood Aves., to William Horrabin Contg. Co., Iowa City, $34,803.

Ia., Iowa City—G. R. Dohrer, city clk., 7 in. concrete paving 12,736 sq.yd. various streets, to W. Horrabin Constr. Co., Iowa City, $34,803. Noted Nov. 3.

Kan., Clay Center — Clay Co., grading 2.732 mi. also constructing three 30 ft. deck girder span bridge on U. S. 40 N, Project 92-D, to Yancey Constr. Co., Abilene, $30,636 and $8,410 respectively.

Kan., Girard — Crawford Co., to Independence Constr. Co., Pittsburg, grading and 3 bridges on 6.093 mi. Rd. K-12, Project 32-C $48,578, grading and 1 bridge 0.028 mi. Federal Aid Project 372, Sect. C $6,686, and bridge 4 mi. from Monmouth, Federal Aid Project 346, Sect. B, $5,435; also to Leggett & Price, Columbus, deck girder span bridge over Boone Creek, $10,899. Grand total $71,598.

Neb., Wahoo—Vibrolithic concrete paving 15,000 yd. various streets, to Central **Bridge & Constr. Co., Wahoo, $40,868.**

Missouri — State Hy. Comn., Jefferson City, to Kelly & Underwood, Granby, 24 ft. grading, etc., 0.028 mi. Route 37, Sect. 2-B, Barry Co. $132, to M. E. Gillioz, Monett, 24 ft. grading 3.802 mi. Dongala-Zalma Rd., Ballinger Co. $49,056, to Fritzlen & Hufford, Kansas City, 0.333 mi. Liberty-Holt Rd., Clay Co. $4,407, to Stigall Constr. Co., Springfield, 4.327 mi. Route 13, Sect. 58 $29,225, 4.69 mi. Route 13, Sect. 59 $27,547, and 4.116 mi. Route 13, Sect. 60 $25,853, all foregoing in Greene Co.; to Stonner & Deering Constr. Co., Chamois, 30 ft. grading 3.517 mi. Route 4, Sect. 80 $26,136, and 18 ft. graveling 3.556 mi. Route 4, Sect. 79 $25,342, Clark Co.; to Pittsburgh Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., 12 and 16 ft. graveling 0.95 mi. Route 9, Dunklin Co. $7,423, to S. A. Robertson Constr. Co., St. Louis, 18 ft. graveling 0.55 mi. Route 13, Sect. 40-A, St.

Streets and Roads (Continued)

Clair Co. $17,312, to Pioneer Constr. Co., Kansas City, 4.315 mi. Route 24, Sect. 48-A $7,753, 2.746 mi. Route 26, Sect. 1-A $4,489, and 2.133 mi. Route 26, Sect. 2-A $7,472, all foregoing in Monroe Co.; also to D. Quinotn, Kearney, Neb., guard fence on St. Louis-Kansas City-Mexico-Jefferson Co. Rd., Boone, Callaway and Montgomery Counties $8,939, and 8,452 ft. Route U. S. 50 and 66, Franklin and Crawford Counties $5,409. Grand total $248,494. Noted Dec. 11.

South Dakota—State Hy. Comn., Pierre, concrete paving, etc., 15,849 sq.yd. Federal Aid Projects 12 and 98, Minnehaha and Lincoln Counties, to Wagner & Erling Co., Sioux Falls, $88,067. Noted Nov. 17.

Texas—State Hy. Dept., Austin, grading, bridging and gravel surfacing 1.856 mi. State Highway 49, State Aid Project 743, 26 ft., Franklin and Red River Counties, to Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $78,995. Engrs. est. $80,000.

Tex., Amarillo—Two course penetration on gravel paving 6th St. to North 5th St., and portion True St., to J. McKnight, Amarillo, $32,215. Engrs. est. $35,000. Noted Dec. 8.

Tex., Batesville—Zavalla Co., grading, etc. 31.101 mi. Highway 55, State Aid Project 750, 26 ft., to Standifer Bros., Big Wells, $71,940. Engrs. est. $80,000. Noted Dec. 1.

Tex., Mercedes—Rein.-con. sidewalks on various streets, to J. H. Mellon & Co., Mercedes, approximately $50,000; and 2 in. asphalt on rock paving 30 blocks Missouri, Georgia, Vermont, Virginia and Ohio Aves., to W. L. Pearson & Co., Edinburg, approximately $90,000.

Tex., Raymondville — Bitulithic paving approximately 5 blocks 5th, 8th and Kimball Sts., 45 ft., to Southwest Bitulithic Co., c/o Gunter Bldg., San Antonio, approximately $32,000.

Okla., Oklahoma City — Oklahoma Co., grading and sheet asphalt paving 10,560 sq.yd. East 63rd Rd., to Green Constr. Co., 519 West Main St., $27,100. Engrs. est. $30,000.

Okla., Enid—Grading and paving 4 blocks West Oklahoma St., to Brown Constr. Co., Guthrie, $29,471. Engrs. est. $30,000. Noted May 19.

Okla., Seminole—P. Noe, city clk., grading and 7 in. concrete paving 6,700 sq.yd. Dist. 9, to Standard Paving Co., 1742 East 6th St., Tulsa, $27,731. Engrs. est. $28,000.

Wash., Seattle — Bd. Pub. Wks., grading, 7 in. concrete paving, etc., 20,150 sq. yd. Harrison St. et al., to R. G. Stevenson, 1237 Northlake Ave., $87,973.

Calif., El Centro—J. C. Neale, city clk., grading, guttering and 5 in. asphaltic concrete paving, etc., 93,327 sq.ft. Olive Ave., and asphaltic concrete paving and grading, etc., 240,700 sq.ft. Adams Ave., to Hazard Contg. Co., 2528 Kettner Blvd., $25,895 and $47,835 respectively. Noted Dec. 8.

Calif., Los Angeles—Grading and concrete paving, etc., Pyramid Dr. between Woodrow Wilson Dr. and Tract 1450, to Martter & Bock, 3074 West Pico St., $25,050; grading, concrete and asphaltic concrete paving, etc., Rita St. between Leghorn Ave. and Van Nuys Blvd., to Gibbons & Reed, 221 East San Fernando Blvd., Burbank, $42,875, Windward and 2nd Aves. impvt. Dist., to R. A. Wattson, 1026 North McCadden Pl. $636,205. Grand total $704,130.

Calif., Manhattan Beach—Grading and 4 in. National concrete paving, etc., Oak and Elm Sts., etc., to Heinecke Constr. Co., Petroleum Securities Bldg., Los Angeles, $130,480.

Calif., San Diego — Common Council, curbing, walks and 6 in. asphaltic concrete paving, etc., 240,203 sq.ft. Robinson Ave., etc., to D. H. Ryan, 1615 Fern St., $46,731. Noted Nov. 24.

Calif., San Gabriel—Curbing, walks and 4 in. asphaltic concrete paving, etc. 279,220 sq.ft. portions Main, Pearl Sts., etc. to Hall-Johnson Co., 905 Westminister Ave., Alhambra, $43,335.

Calif., San Mateo—Grading and crushed stone surfacing, etc. 5.2 mi. roadway between South Francisco and Bway. Station, to Granfield, Farrar & Carlin, Hoff St., San Francisco, $107,310.

Calif., San Mateo—Grading and concrete paving, etc., portions Woodside Ave., to N. M. Ball, Porterville, $38,393. Noted Nov. 24.

Calif., Sutter—Sutter Co., macadam paving, etc., 4½ mi. Walton Ave., etc., to Heafey-Moore Co., 344 High St., Oakland, $66,308.

Buildings—Commercial

Proposed Work

N. H., Claremont—THEATRE—Latchis Theatre Co., Main St., Keene, plans 1 and 2 story and basement, brick and steel, Pleasant St., $150,000. Engineer and architect not selected.

Mass., Brockton—HOSPITAL—Brockton Hospital, Centre St., plans additions and reconstruction hospital, Center St. $150,000 or more. Engineer and architect not selected.

Mass., Marlboro—CLUBHOUSE—Knights of Columbus, T. W. McGee, chn. com., 238 Main St., plans clubhouse, Main St. $150,000 or more. Engineer and architect not selected.

R. I., North Providence (br. Providence) TEMPLE—Roger Williams Lodge, H. N. Wardell, chn. com., having plans prepared by W. Walker & Sons, 49 Weyset St., Providence and takes bids in March, brick and steel masonic temple, Steers Ave. $150,000 or more.

Conn., New Haven—APARTMENTS—Adelman Bros., 432 Ellsworth Ave., having plans prepared by J. Weinstein, Metropolitan Bldg., 125 x 142 ft., Cottage and Livingston Sts. $225,000, 102 x 160 ft., Livingston St. $210,000, and 140 x 142 ft., Linden and Cottage Sts., $250,000, all 3 story, brick, stone and steel.

N. Y., New York—APARTMENT—Hudson Holding Corp., A. G. Quinn, pres., 285 Madison Ave., had plans prepared by E. Roth, 1440 Bway., 9 story, 72 x 80 ft. apartment, 428 East 51st St. $400,000.

N. Y., New York—APARTMENT—Morgan Studios, Inc., 19 West 44th St., had plans prepared by A. E. Poor & R. P. Rodgers, 19 West 44th St., 9 story, 73 x 84 ft., brick and steel; 167 East 78th St. $345,000. Noted Dec. 8.

N. Y., New York — APARTMENT — Seventy-Six Seamon Ave. Corp., c/o Lilien & Lilien, archts., 155 West 72nd St., had plans prepared 6 story, 78 x 80 ft., brick and timber, 72 Seamon Ave. $200,000.

N. Y., New York—APARTMENT—Ten East 96th Street Corp., 100 West 72nd St., c/o A. D'Antona, had plans prepared by R. Candela, 578 Madison Ave., 15 story, brick and steel, 10 East 96th St. $550,000.

N. Y., New York — APARTMENT — M. Torrisi, 231 South 9th Ave., Mt. Vernon, had plans prepared by M. Stern, 924 West End Ave., 5 story, 83 x 135 ft., brick and timber, Barnes Ave. and 234th St. $250,000.

N. Y., New York—APARTMENT—Kanelit Realty Corp., c/o Goldner & Goldner, archts., 141 West 42nd St., had plans prepared 6 story, 87 x 100 ft. apartment, 174th St. and Bryant Ave. $200,000.

N. Y., New York — APARTMENT — A. Campanello, 2931 Holland Ave., had plans prepared by A. R. Perillo, 734 East 227th St., 5 story, 89 x 100 ft. apartment, Lorillard Pl. and 187th St. $160,000.

N. Y., New York—ASSEMBLY HALL—Metropolitan Coliseum, Inc., 1599 Bway., H. J. Fugazy, pres., had plans prepared by T. W. Lamb, 644 8th Ave., 200 x 575 ft. assembly hall, 175 ft. high, 13th Ave. and 55th St. $5,000,000. Noted July 7.

N. Y., New York—GARAGE—Solomon & Kahn, 475 5th Ave., had plans prepared by Gronenberg & Leuchtag, 1385 Bway., 7 story, 75 x 197 ft. garage, 349 West 38th St. $500,000.

N. Y., New York—GARAGE—Hermstar Realty Co., 60 West 190th St., had plans prepared by Maisner & Uffner, 4197 Park Ave., 2 story, 100 x 275 ft. garage, Jerome Ave. and 184th St. $200,000.

N. Y., New York — HOTEL — Randson Realty Co., c/o H. and S. Rodwin, 475 5th Ave., plans 22 story, 75 x 100 ft. hotel, 64th St. between 5th and Madison Aves. $1,400,000. Engineer and architect not announced.

N. Y., New York — THEATRE and STORE—Wilthan Realty Corp., N. M. Schenck, pres., 1540 Bway., had plans prepared by J. Eberson, 200 West 57th St., 3 story, 185 x 204 ft., theatre and store building, 183 East 71st St. $750,000. Noted Apr. 2.

N. Y., Syracuse — APARTMENT — L. Fidler, 1501 East Genesee St., plans apartment, East Genesee St. $400,000. S. D. Sarason, Dillaye Bldg., engr.

N. Y., Syracuse — APARTMENT — I. Garelick, 539 Westmoreland Ave., having plans prepared by Wolfe Markham, Everson Bldg., 4 story and basement, 71 x 97 ft., rein.-con., brick and steel, plain foundation, University Ave. $150,000.

N. J., Bloomfield—APARTMENT—Clinton Arms Apartments, Inc., c/o M. Villanueva, archt., 604 Central Ave., East Orange having plans prepared 4 story and basement, brick and steel, plain foundation, Clinton and Lincoln Aves. $150,000.

N. J., Bridgeton—LODGE and STORES—Fraternal Order of Eagles having plans prepared by T. E. Ash, 1700 Walnut St., Phila., Pa. 3 story, brick lodge and store building, Pearl and Warren Sts., here. $160,000.

N. J., Elizabeth—APARTMENT—Holzberg & Posnock, 160 Elmora Ave., having plans prepared by Kasoff & Flatt, 164 Market St., Newark, 5 story and basement, 80 x 105 ft., brick and steel, plain foundation, Jersey Ave. $240,000.

N. J., Metuchen — APARTMENTS — Owner, c/o M. A. Wolf, archt., 845 Broad St., Newark ,having plans prepared two 3 story and basement, 84 x 85 ft., brick and steel, plain foundations, here. $150,000.

N. J., Montclair—HOSPITAL—Montclair Community Hospital, 120 Harrison Ave., takes bids in February, 3 story and basement, brick and steel hospital. $300,000. W. L. Walker, 103 Park Ave., New York City, archt. Noted Sept. 15.

N. J., Newark — APARTMENT — H. Rosenberg, 85 Keer Ave. having plans prepared by W. E. Lehman, 972 Broad St. 5 story and basement, 90 x 185 ft., brick and steel, plain foundation, 815-29 Elizabeth Ave. $250,000.

N. J., Newark—CLUB—Knights of Columbus, 65 Lincoln Park, receiving competitive sketches (selected list architects) 4 story and basement, brick and steel, plain foundation, 61-67 Lincoln Park. $300,000. Noted July 14.

N. J., Newark—OFFICE—Prudential Insurance Co., Prudential Bldg., plans office building, Washington, Plane, Bank and Academy Sts. $150,000. Engineer and architect's names withheld.

N. J., Trenton — TEMPLE — Crescent Temple takes bids about Jan. 20, limestone masonic temple, Clinton and Wall Sts. $500,000. W. Hankins, 224 East Hanover St., archt., J. O. Hunt, 219 East Hanover St. associated archt. Calvert & Barnes, 2114 Sansom St., Phila., Pa., engrs.

Ala., Birminghrm — OFFICE — Protective Life Insurance Co., 2112 1st Ave., W. D. Jelks, pres., having plans prepared by Warren, Knight & Davis, Empire Bldg., 11 story, concrete and steel addition to present 3 story building, 1st Ave. and 21st St. $800,000.

Ala., Selma—HOTEL—Hockenbury System, Inc., 200 North 3rd St., Harrisburg, Pa., plans hotel, Broad St. at Selma or Dallas Sts. $450,000.

La., Monroe—OFFICE—S. D. Hunter, Commercial Bank Bldg., Shreveport, soon takes bids 7 story, brick, steel, stone and rein.-con. office building. $750,000.

Tenn., Memphis — STORE — Bry-Block Mercantile Co., 89 North Main St., having plans prepared by E. L. Harrison, Fidelity Bank Bldg., 6 story and basement, rein.-con., brick and steel, Jefferson and Main Sts. $350,000.

O., Cleveland—SALES and SERVICE—Packard Motor Car Co., 1580 East Grand Blvd., Detroit, Mich., had plans prepared by A. Kahn, Inc., archts. and engrs. Marquette Bldg., Detroit, Mich., 1 and 2 story, 114 x 181 ft., brick, steel and concrete, East 93rd St. and Carnegie Ave. $200,000.

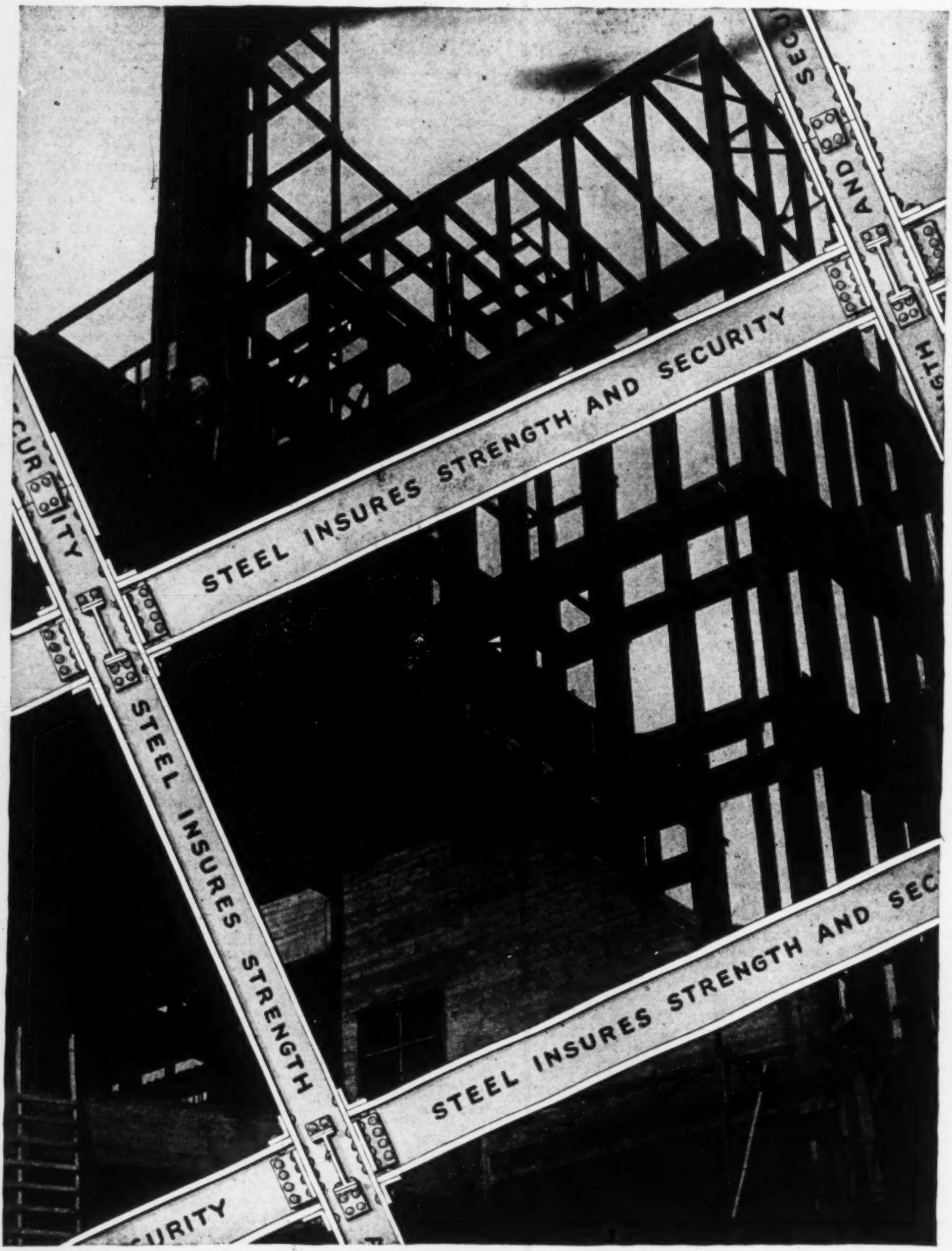
O., Silverton (mail Pleasant Ridge br. Cincinnati P. O.)—MAUSOLEUM—Mausoleum Co., 2826 Werk Rd., having plans prepared by Lovell & Lovell, Chicago, Ill., 1 story and basement, stone, plain foundation, Montgomery St. $300,000.

Ind., Anderson—HOTEL and THEATRE—C. G. Wolf, Wheeling, W. Va., V. U. Young, Gary, and G. Challis, Muncie, having plans prepared by A. M. Strause, 706 Tri-State Bldg., Ft. Wayne, 7 story, 120 x 144 ft., brick and steel, incl. ball room and cafeteria, etc., concrete pile foundation, 12th and Meridian Sts. $750,000.

Ind., Anderson—HOTEL and THEATRE—Owner, c/o A. M. Strauss, archt., 415 Cal-Wayne Bldg., Ft. Wayne, having preliminary plans prepared 6 story and basement, 145 x 175 ft., rein.-con., brick and steel, 12th and Meridian Sts. $700,000.

Ind., Elkhart—HOTEL—Elkhart Hotel Co. having plans prepared by Zimmerman, Saxe & Zimmerman, 212 East Superior St., Chicago, Ill., 9 story and basement, rein.-con., brick and steel addition, Main and Marion Sts. $450,000.

Mich., Detroit—CLUB HOUSE—Detroiter Socialer Turnverein, 1448 Sherman St., having plans prepared by Mildner & Eisen, 224 Hammond Bldg., 3 story and basement, 90 x 190 ft., rein.-con. and brick, plain foundation, incl. swimming pool, East Jefferson Ave. $200,000.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Buildings—Commercial (Continued)

Mich., Pontiac—APARTMENT—B. Ziff, c/o H. C. Stevens, archt., 602 Bway. Exchange Bldg., Detroit, having plans prepared 4 story and basement, 57 x 155 ft., brick and steel, plain foundation, Premont St. $200,000.

Ill., Chicago — APARTMENT — W. C. Wright, archt., soon takes bids 6 story and basement, 48 x 115 ft., rein.-con., brick and stone, 1939 Lincoln Ave., for Linden Building Corp., c/o architect. $225,000.

Ill., Chicago — APARTMENT — Lincoln Norcott Hall, archt., 7 West Madison St., soon takes bids 6 story and basement, 60 x 137 ft., rein.-con., brick and stone, 6217 Winthrop Ave. $350,000. Owner's name withheld.

Ill., Chicago—POLICE STATION—City having plans prepared by A. E. Robinson, City Hall, 2 story and basement, 88 x 158 ft., brick and terra cotta, Monterey Ave. and Esmond St. $150,000.

Ill., McLeansboro — COURTHOUSE — Hamilton Co. c/o R. Phipps, clk., having preliminary plans prepared 3 story, rein.-con., brick and stone courthouse. $300,000.

Wis., Fort Atkinson—MUNICIPAL—City having plans prepared by Law, Law & Potter, 1 South Pinkney St., Madison, 2 story and basement, 70 x 220 ft., brick and stone, plain foundation. $150,000.

Neb., Fremont — HOSPITAL — H. C. Peterson, archt., 425 Bankers Reserve Life Bldg., Omaha, soon lets contract 4 story and basement, rein.-con. and brick, East Military Ave., for Missouri Synod Lutheran Church, c/o W. Brueggeman, pastor, 428 East 3rd St. $150,000. Noted Oct. 15.

Neb., Hastings—MASONIC TEMPLE—Hastings A. F. & A. M., C. L. Walters, secy., takes bids about Feb. 1, rein.-con., brick and stone, 1,000 seating capacity, 3rd and Hastings Sts. $300,000. Keffer & Jones, 205 Masonic Temple, Des Moines, Ia., archts. Noted Apr. 7.

Mo., Columbia—APARTMENT—F. W. Niedermeyer having preliminary plans prepared by Wallace & Sutter, 923 Rialto Bldg., Kansas City, 4 story and basement, 75 x 115 ft., rein.-con., brick and terra cotta apartment, incl. 30 car garage, University Ave. $250,000.

Mo., Columbia—THEATRE and STORE—Dozier Stone, 414 Exch. Natl. Bank Bldg., soon lets contract general contract 142 x 160 ft. rein.-con., brick and terra cotta, 9th and Locust Sts. $175,000. Boller Bros., 114 West 10th St., Kansas City, archts. Noted Oct. 27.

Mo., Kansas City—EXCHANGE—South Western Bell Telephone Co., Telephone Bldg., plans expending $4,550,000 enlarging buildings, plants, general improvements, etc., during 1928.

Mo., Kansas City—HOTEL—Coronado Hotel Co., 308 Curtice Bldg., had preliminary plans prepared by Defoe & Besecke, 114 West 10th St., 8 story and basement, rein.-con. and brick, 33rd and Main Sts. To exceed $150,000.

Mo., Poplar Bluff—STORE—G. W. Dalton, 421 North Main St., takes bids in spring 3 story and basement, 40 x 120 ft., rein.-con., and brick, Poplar and Main Sts. $165,000. W. H. Klamberg & Co., 317 North 11th St., St. Louis, archts.

Mo., St. Louis — APARTMENT — B. Ansehl, c/o B. Leland & Co., 4101 Lindell Blvd., having preliminary plans prepared by J. L. Bowling, 1198 Arcade Bldg., 12 story and basement, rein.-con., brick and terra cotta, Lindell Blvd. and Sarah St. $1,000,000.

Mo., St. Louis — APARTMENT — F. J. Cornwell Real Estate Co., 111 North 7th St., purchased site and plans 8 story and basement, rein.-con., brick and terra cotta, Lindell Blvd. and Euclid Ave. $450,000.

Mo., St. Louis—APARTMENT—Syndicate forming, c/o J. L. Bowling, archt., 1198 Arcade Bldg., having preliminary plans prepared 8 story and basement, rein.-con., brick and terra cotta, 4200 Lindell Blvd. $500,000.

Ark., Hot Springs—HOSPITAL—Baptist Natl. Hospital, c/o W. Cooksey, having preliminary plans prepared by H. T. McGee, 801 Fidelity Bank Bldg., Memphis, Tenn. 8 story and basement, rein.-con., and brick, on 7 acre tract near here. $250,000.

Tex., Dallas—HOTEL—C. A. Mangold & E. W. Morten, Jefferson Hotel, plans 10 story, brick, stone, steel and rein.-con., Main and Martin Sts.

Tex., Dallas—HOTEL—G. W. Owens & Associates, 3310 Commerce St., plans 5 story, brick, stone and rein.-con., Colorado and Ballard Aves.

Tex. Henderson—COURTHOUSE—Rusk Co., J. T. Watson, judge, having plans prepared by A. C. Gentry, Tyler. 3 story and part basement, 14,000 sq.ft. floor space rein.-con. and brick, plain foundation. $150,000.

Tex., San Angelo—APARTMENT—S. E. Ellzey, Duncan, Okla., had plans prepared and takes bids after Jan. 1, 4 story, 130 x 150 ft., rein.-con., and brick, plain foundation, here. $150,000. Private plans.

Tex., San Angelo—THEATRE—P. & R. Theatres, 2009 Jackson St., Dallas, plans theatre, here. $225,000.

Okla., Enid—OFFICE—Champlin Refining Co. having preliminary plans prepared 4 story and basement, rein.-con. and brick, plain foundation, 4th St. $200,000. Engineer and architect not selected.

Okla., Hobart—COURT HOUSE—Kiowa Co. having preliminary plans prepared 3 story and basement, rein.-con. and brick addition, plain foundation. $175,000.

Okla., Muskogee — HOSPITAL — Baptist Hospital having plans prepared by A. Wood, 2111 Woodward Ave., Detroit, Mich., addition, 16th St. $150,000. Noted Apr. 7.

Okla., Oklahoma City — OFFICE — Athletic Club having plans prepared by Layton, Hicks, Forsythe, Braniff Bldg., 2 story and basement, 50 x 140 ft., rein.-con. and brick, plain foundation, here. $600,000.

Okla., Pawnee — COURT HOUSE — Pawnee Co. having preliminary plans prepared rein.-con. and brick, plain foundation, Hill St. $200,000. Engineer and architect not selected.

Okla., Tulsa—APARTMENT HOTEL—A. E. Aaronson, Court Arcade Bldg., having plans prepared by A. H. Gentry, 438 Dwight Bldg., Kansas City, Mo., 10 story and basement, 100 x 120 ft., rein.-con., brick and steel, plain foundation, 9th and Boulder Sts. $600,000. Noted Nov. 10.

Okla., Tulsa—GARAGE—H. E. Ketchum, 424 East 8th St., having preliminary plans prepared garage, 4th St. $200,000. Engineer and architect not selected.

Colo., Pueblo — STORE and FRATERNAL—I. O. O. F., c/o I. D. Rambo, Masonic Blk., having plans prepared 3 story store and fraternal building, Main St. $200,000. Engineer and architect not announced.

Wash., Seattle—JAIL, etc.—King Co. had preliminary plans prepared by J. E. Blackwell, 1112 Harvard St. N., 7 story, 120 x 180 ft. jail and 175 car garage, etc. $806,000.

Calif., Bakersfield—BANK and OFFICE—Bank of Italy, 1 Powell St., San Francisco, having plans prepared by H. A. Minton, Bank of Italy Bldg., Powell and Market Sts., fireproof bank and office building. $150,000 or more.

Calif., Los Angeles—OFFICE and LOFT—L. Kaufman, c/o K. Macdonald, Jr., archt., Spring-Arcade Bldg., having plans prepared 12 story and basement, rein.-con. and steel, West 6th St. $650,000.

Calif., Marysville—THEATRE—T. & D. Enterprises, Inc., 988 Market St., San Francisco, having plans prepared by Miller & Pflueger, 580 Market St., San Francisco, 2 story theatre, 1,200 seating capacity, 4th and E Sts., here. $150,000 or more.

Calif., Oakland—AUDITORIUM—W. H. Weeks, archt., Hunter-Dulin Bldg., San Francisco, soon takes bids 4 story and basement, rein.-con., East 14th St., for Hospital Building Corp. of Oakland, c/o architect. $250,000.

Calif., Oakland—BANK—Oakland Bank, Oakland Bank Bldg., plans 2 fireproof branch bank buildings. $75,000 each. Engineer and architect not selected.

Calif., Oakland—WAREHOUSE and OFFICE—Langley & Michaels, 50-1st., St., San Francisco, having preliminary plans prepared by H. H. Meyers, Kohl Bldg., San Francisco, 3 story, rein.-con., 9th and Castro Sts. $500,000.

Calif., Riverside — THEATRE, STORE and OFFICE—West Coast Theatres, Inc., Film Exch. Bldg., Los Angeles, having plans prepared by Balch Bros., Film Exch. Bldg., Los Angeles, 2 story, 132 x 182 ft., rein.-con., Market and 7th Sts. $300,000.

Calif., San Bernardino—THEATRE and OFFICE—West Coast Theatres, Inc., Film Exch. Bldg., Los Angeles, having plans prepared by Balch Bros., Film Exch. Bldg., Los Angeles, rein.-con., here. $300,000.

Calif., San Francisco—APARTMENT—A. H. Larsen, archt., 447 Sutter St., preparing plans 5 story and basement, rein.-con., Dolores and 14th Sts. $150,000. Owners name withheld.

Calif., San Francisco—APARTMENT—Lincoln Investment Co., c/o A. H. Larsen, archt., 447 Sutter St., had plans prepared 6 story and basement, rein.-con. and steel, 16th Ave. and Lincoln Way. $150,000.

Calif., San Francisco—STORE—Weinstein Co., Department Stores, 1041 Market St., plans fireproof annexes, Market St between 6th and 7th Sts. To exceed $500,000. Engineer and architect not selected.

Calif., San Francisco—THEATRE—L. R. Lurie, 315 Montgomery St., having plans prepared by O'Brien Bros., 315 Montgomery St., 2 story, 1,500 seating capacity, Chestnut and Fillmore Sts. $150,000. Barron & Nathan, 221 Golden Gate Ave., lessee.

Calif., San Jose — CLUB — San Jose Womens Club having preliminary plans prepared by W. H. Weeks, Hunter-Dulin Bldg., San Francisco, probably rein.-con., West 11th St. $150,000 or more.

Calif., San Luis Obispo—COURTHOUSE and JAIL—San Luis Obispo Co., plans courthouse and jail. To exceed $150,000. Funds will probably be raised via bond issue or direct tax.

Calif., Santa Monica — HOSPITAL — Loamshier Hospital, Princeton St., having plans prepared by F. D. Rutherford, Mills Fraser Bldg., 1 story, brick, steel and rein.-con. annex. $150,000.

Calif., Woodland — HOSPITAL — Yolo Co. plans fireproof hospital. $150,000 or more.

Que., Montreal—OFFICE—S. Wener, 621 Sherbrooke W., purchased site and plans 10 story, 251 x 342 x 495 ft. office, $2,300,000.

Que., Montreal — STORE — Metropolitan Stores Ltd., 483 Talbot St., London, Ont., plans 3 story, 50 x 80 ft., concrete and steel, St. Catherine St. W., here. $150,000. Engineer and architect not selected.

Ont., Arnprior—HOTEL—J. R. Bryne having plans prepared by Richards & Abra, Ottawa, brick and steel hotel. $150,000.

Ont., Orillia—HOTEL—A. Miller, Lakeview Hotel, Sparrow Lake, having plans prepared by Angus & Angus, North Bay, 5 story and basement, concrete, brick and steel, Mississauga and Front Sts., here. $250,000.

Ont., Toronto—OFFICE, THEATRE and GARAGE—Syndicate, c/o H. F. Williams, King Edward Hotel, having plans prepared by E. L. Sheppard, 57 Queen St. W., and C. B. Dolphin, 10 Leader Lane, two 12 story and basement office buildings, 3 story and basement theatre, 3,500 seating capacity, and 2 story garage addition, all rein.-con., brick, steel and stone, Temperance St. $11,000,000.

Ont., St. Catharines—Y. M. C. A. having plans prepared by Nicholson & McBeth, 46 Queen St., and takes bids in March, brick and stone, incl. swimming pools and gymnasium, Bond St. $500,000.

Bids Desired

Mass., Boston—STORE and OFFICE—Price & Charlton, 120 Harrison Ave., taking bids superstructure 6 story and basement, 35 x 100 ft., brick, stone and granite, 26-28 Kneeland St. $150,000. Krokyn & Brown, 220 Devonshire St., archt. M. Linenthal, 333 Washington St., engr.

Mass., Malden (br. Boston)—APARTMENT—I. Rosenfield, c/o C. F. Springall, archt., 84 Sprague St., taking bids 5 story and basement, brick, plain foundation, Pleasant St. $150,000. Noted Dec. 22.

Conn., West Haven (br. New Haven) —APARTMENT—See "Contracts Awarded."

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. J., Bloomfield—APARTMENT—Glen Ridge Apartments, Inc., A. Lipton, pres., 24 Branford Pl., Newark, taking bids general contract 4 story and basement, 110 x 165 ft., brick and steel, plain foundation, 186 Ashland Ave. $175,000. Kasoff & Flatt, 164 Market St., Newark, archts. Noted Dec. 15.

N. J., Ridgewood — THEATRE, STORE and OFFICE—See "Contracts Awarded."

Md., Baltimore—OFFICE—Jan. 4, by W. G. Beecher, archt., 12 East Pleasant St., 2 story and basement, irregular shaped, brick and stone, 21st St. and Guilford Ave. for State of Maryland Motor Vehicles, E. Austin, comr., Saratoga and St. Paul Sts. $160,000.

D. C., Wash.—EXCHANGE—Jan. 5, by Chesapeake & Potomac Telephone Co., 723 13th St. N. W., general contract addition (main office) telephone building. $800,000. MacKenzie, Voorhees & Gmelin, 1325 H St. N. W., archts.

O., Cincinnati — APARTMENT — O. Schwartz, archt., 301 Provident Bank, taking bids 3 story and basement, 100 x 165 ft., brick, plain foundation, Harrison St., for C. W. Broeman, 1004 Atlas Bank. $200,000.

Mo., St. Louis — APARTMENT — See "Contracts Awarded."

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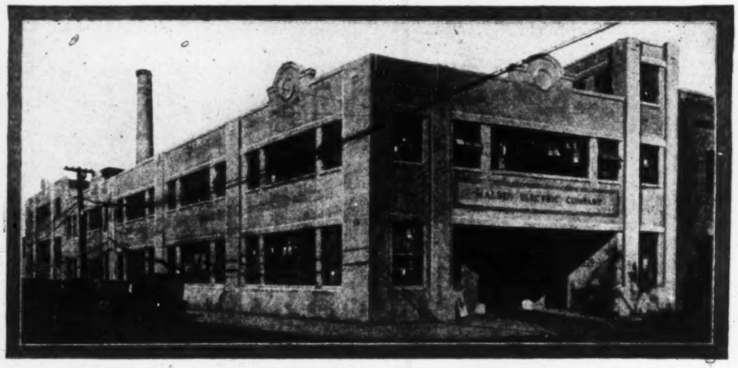

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Buildings—Commercial (Continued)

Tex., Eastland—COURTHOUSE—Jan. 9, by Eastland Co., c/o G. S. Prichard, judge, 5 story and basement, brick, stone, steel and rein.-con. courthouse. $300,000. Lang & Witchell, 300 Amer. Exch. Bldg., Dallas, archts. Noted Nov. 24.

Calif., Los Angeles—CAFETERIA—C. F. Plummer, archt., Story Bldg., taking bids 2 and 3 story, rein.-con., South Bway., for Schaber Cafeteria Co., c/o architect. $200,000.

Calif., San Francisco—APARTMENT—A. H. Larsen, archt., 447 Sutter St., taking bids 6 story and basement, steel and rein.-con., 16th Ave. near Lincoln Way, for Lincoln Investment Co., c/o archt. $180,000. Noted Dec. 22.

Contracts Awarded

Mass., New Bedford—BANK—Merchants Natl. Bank, Wilham St., altering and constructing 1 and 2 story and basement, rein.-con., brick, steel and granite addition, plain foundation, Wilham St., to W. Young, 122 Union St. Archts. est. $150,000.

R. I., Westerly—FIRE STATION—Town, c/o C. W. Campbell, chn. building comn., 2 story and basement, 75 x 105 ft., rein.-con. and granite, plain foundation, Broad St., to T. H. Morrison, 12 Chestnut St. Archts. est. $150,000. Noted Dec. 1.

Conn., Hartford—HOTEL—C. Pope, 87 Fairmount St., will build 7 story, 45 x 115 ft. brick, stone and steel, Lewis St. $250,000. R. A. D'Avino, 647 Main St., archt.

Conn., New Britain—BUSINESS—B. C. Porter Sons, 224 Main St., 6 story steel and brick, mercantile store addition, Main St., to Carlson & Torell, 37 Jefferson St., New Britain. Archts. est. $150,000. Noted Nov. 24.

Conn., West Haven (br. New Haven) — APARTMENT—N. Spadoni, 169 Elm St., will build 3 story, 60 x 120 ft., brick and steel, Elm and 4th Aves., $150,000. Noted Nov. 3.

N. Y., New York—APARTMENT—Halcon Constr. Co., 3470 3rd Ave., will build 6 story, 80 x 126 ft. apartment, Sedgwick Ave. and Fordham Rd. $250,000. Work will be done by separate contracts. Springsteen & Goldhammer, 40 East 49th St., archts.

N. Y., New York—APARTMENT—Garden-Prospect Building Corp., 1313 Webster Ave., will build 6 story apartment, Garden St. and Prospect Ave. $225,000. Work will be done by separate contracts. G. Swiller, 4215 3rd Ave., archt.

N. Y., New York—APARTMENT—Hirco Constr. Co. will build 6 story, 92 x 100 ft. apartment, Jessup Ave. and 170th St. $300,000. Work will be done by separate contracts. C. Kreymborg, 2534 Marion Ave., archt.

N. Y., New York—APARTMENT—Jesmul Constr. Co. will build 6 story, 94 x 100 ft. apartment, Jessup Ave. and 170th St. $180,000. Work will be done by separate contracts. Private plans.

N. Y., New York—APARTMENT—Corporation, c/o W. L. Bottomley, archt., 112 East 55th St., 14 story and basement, 50 x 90 ft., brick and steel, 93 East End Ave., to Whitney Co., Inc., 101 Park Ave. Archts. est. $600,000.

N. Y., New York — HOTEL — Park Avenue-Thirty-Ninth Street Corp., 31 story, 123 x 155 ft. hotel, 39th St. and Park Ave., to Shroder & Koppel, 420 Lexington Ave. Archts. est. $3,000,000.

N. Y., Syracuse — APARTMENT — Meadowbrook Apartment Corp., 2 story and basement, apartment, Meadowbrook Rd. to J. D. Taylor Co., 115 South Salina St., $150,000.

N. J., Asbury Park—APARTMENT and STORE—L. Rosenbaum, Bradley Beach, will build 3 story and basement, 85 x 100 ft., brick and steel, plain foundation. $150,000. Work will be done by separate contracts. Siegler & Greenberg, 164 Market St., Newark, archts. Noted Dec. 15.

N. J., Camden—BANK—First Camden Natl. Bank & Trust Co., W. E. Bennett, chn. building com., 3 story, mezzanine and basement, rein.-con., brick and stone, plain foundation, Bway. and Cooper St., to Irwin & Leighton, 1505 Race St., Phila., Pa. Noted Dec. 1.

N. J., Passaic—APARTMENT—Passaic Securities Co., 641 Main Ave., will build three 3 story and basement, brick and steel, plain foundation, 24-50 Summer St. $375,000. Work will be done by separate contracts. Preiskel & Skvarla, 591 Main Ave., Passaic, archts. Noted Dec. 1.

N. J., Ridgewood — THEATRE, STORE and OFFICE—North Oak Impvt. Co., North Broad St., will build 3 story and basement, brick and steel, plain foundation, Oak St. and Franklyn Ave., here. $500,000. Work will be done by separate contracts. P. Vivarttas, 110 48th St., Union City, archt. Noted Sept. 22.

Pa., Phila. — LOFT — M. A. Bernhardt, archt., 127 South 18th St., 10 story and basement, 64 x 67 ft., rein.-con., brick and steel, plain foundation, 22 North 7th St., to Cramp Co., Dencker Bldg., for Southern Bookbinding Co., 22 North 7th St. Noted Dec. 8.

Md., Baltimore — APARTMENT — Gillet Realty Corp., c/o Wyatt & Nolting, archts., Keyser Bldg., Warrington Apartments, 12 story and basement, 133 x 156 ft., rein.-con., brick, steel and stone, 3908 Charles St., to Consolidated Eng. Co., 20 East Franklin St., $1,000,000. Noted Nov. 10.

D. C., Wash. — HOTEL, AUDITORIUM and CONVENTION HALL—R. A. Nordbloom, pres. City Central Corp., 30 Federal St., Boston, Mass., 500 room hotel, auditorium and convention hall, 15th and H Sts. N. W., here, to J. A. Stewart Co., Inc., 17 East 42nd St., New York City. Archts. est. $4,000,000.

Ala., Montgomery—HOSPITAL—Bd. Directors Southern Methodist Church, 3 story, 60 x 75 ft., 2 story, 50 x 80 ft., and 1 story, 25 x 60 ft., brick and stone buildings, to Algernon Blair, 11 South Lawrence St. $160,000.

Tenn., Memphis—UNIVERSITY—University of Tennessee, pharmacy building and library, both brick, to W. W. Wessell Constr. Co., 388 North Front St. Archts. est. $350,000. Noted Dec. 1.

Ky., Louisville—APARTMENT and GARAGES—L. Jacobson & Sons, (owner, contractor, engineer and architect), will build 3 story and basement, 150 x 176 ft., rein.-con. and brick, apartment and garages, Bonnycastle Ave. and Spring Dr. $200,000. Noted Dec. 22.

O., Marion — THEATRE, STORE and APARTMENT — Young Amusement Co., Gary, Ind., general contract 1 story and basement, 120 x 153 ft., brick, steel and concrete theatre, store and apartment building, here, to D. W. McGrath & Sons, 255 East Broad St., Columbus, O. Archts. est. $400,000. Noted Nov. 3.

Ind., Indianapolis—APARTMENT—Moynahan Co., 710 Union Title Co. Bldg., general contract 7 story and basement, 60 x 81 x 169 ft., rein.-con., brick and steel, 3727 North Meridian St., to T. A. Moynahan, 710 Union Title Co. Bldg. Archts. est. $205,000.

Ind., Indianapolis—GARAGE—Embassy Realty Co., general contract 3 story and basement, 90 x 140 ft., rein.-con., brick and steel, Pennsylvania and 30th Sts., to Cartmell-Burcaw-Moore, Inc., 540 North Meridian St. Archts. est. $150,000.

Ind., Indianapolis—HOTEL—W. E. Bayfield, Hotel Majestic, Chicago, Ill., general contract 8 story and basement, 70 x 77 ft., rein.-con., brick and steel, Market and Capitol Sts., to W. P. Jungclaus, 825 Massachusetts Ave. Archts. est. $250,000. Noted Dec. 1.

Ind., Kokomo — COURT HOUSE and WAR MEMORIAL — O. Butcher, aud. Howard Co., general contract 3 story and basement, 100 x 150 ft., rein.-con., brick and steel, Public Sq., to English Bros., Champaign, Ill., $453,980; heating and plumbing, to Atlantic Plumbing & Heating Co., St. Louis, Mo., $38,938. Noted Nov. 24.

Ind., Terra Haute—OFFICE and STORE—Cherry St. Co., general contract 2 story and basement, 141 x 150 ft., brick, steel and stone, Cherry St. between 6th and 7th Sts., to L. E. Waterman, Terra Haute. Archts. est. $150,000.

Mich., Ann Arbor—BANK and OFFICE—First Natl. Bank, Main and Washington Sts., general contract 5 and 10 story and basement, 45 x 124 ft., rein.-con., brick and steel, plain foundation, Main St., to Corrick Bros., 507 Owen Bldg., Detroit. Archts. est. $300,000.

Mich., Battle Creek—EXCHANGE and OFFICE — Michigan Bell Telephone Co., Cass Ave., Dertoit, 2 story and basement, 74 x 148 ft., rein.-con., brick and steel, plain foundation, East Main St., here, to A. J. DeKoning, 539 West Vine St., Kalamazoo. Archts. est. $150,000.

Mich., Detroit—HOTEL—S. Plotkin, 640 Lafayette Bldg., 11 story and basement, 201 x 225 ft., rein.-con., brick and steel, plain foundation, East Jefferson Ave., to Otto Misch Co., 159 East Columbia Ave. Noted Oct. 6.

Mich., Detroit — OFFICE, THEATRE and GARAGE—A. Kahn, archt., 1,000 Marquette Bldg., general contract 25 story office building, 10 story garage, and 5,000 seating capacity theatre, all rein.-con., brick and steel, caisson foundation, West Grand Blvd., to H. C. Christman Burke Co., 315 Stevens Bldg. Noted Nov. 17.

Mich., Pontiac—OFFICE and GARAGE—A. Riker, c/o Dr. Riker, West Huron St., 10 story and basement office, and 5 story garage, both rein.-con., brick and steel, plain foundations, West Huron St., to Shelden Constr. Co., 548 Buhl Bldg., Detroit. Noted Dec. 8.

Ill., Chicago — APARTMENT — W. C. Bannerman & Co., 77 West Washington St., masonry contract 24 story and basement, 44 x 135 ft., steel, brick and stone, 1430-32 Lake Shore Dr., to Lind Constr. Co., 6400 South State St. Archts. est. $1,000,000. Noted Dec. 1.

Ill., Chicago—APARTMENT—M. L. Bein, archt., 64 West Randolph St., masonry and concrete contract 8 story and basement, 82 x 150 ft., rein.-con., brick and stone, 1117-1123 North Dearborn St., for Syndicate, c/o architect, to Wahl Constr. Co., 3310 Belmont Ave.; plumbing, to J. Schiller & Co., 1512 West Roosevelt Rd.; and heating, to Adelman Heating Co., 3324 5th Ave. Archts. est. $1,000,000. Noted Dec. 1.

Ill., Chicago—APARTMENT—P. F. Reynolds, 8 South Dearborn St., general contract 22 story and basement, 128 x 172 ft., steel and Indian limestone, wood pile foundation, 1500 Lake Shore Dr., to Turner Constr. Co., 228 North La Salle St. Archts. est. $3,000,000. Noted Sept. 22.

Ill., Chicago — GARAGE — R. Woodley, 1642 East 55th St., masonry contract 3 story and basement, 50 x 146 x 301 ft., 5610-42 Stoney Island Ave., to Vogtberg Constr. Co., 251 West 79th St. Archts. est. $350,000.

Ill., Chicago — OFFICE and STORE — Schmidt, Garden & Erickson, archts., 104 South Michigan Ave., general contract 16 story and basement, and 8 story in rear, 110 x 182 ft., brick, steel, granite and terra cotta, 16-30 West Washington St., to Hageman-Harris Co., 431 North Michigan Ave., for Syndicate, c/o architects. Archts. est $2,000,000. Noted Dec. 15.

Ia., Iowa City—HOTEL—W. J. Harter, 417 East Bloomington St., Iowa City, and P. S. Doyle, 836 2nd St., Ft. Madison, 7 story, rein.-con., brick and terra cotta, Dubuque and Burlington Sts., to J. H. Huntzinger Constr. Co., Iowa City. Archts. est. $400,000. Noted Dec. 15.

Kan., Wichita — THEATRE — Hartman Investment Co., 3211 East Douglas St., 2 story and basement, 103 x 160 ft., rein.-con., brick and stone, Douglas and Hillside Sts., to G. H. Siedhoff Constr. Co., Broadview Hotel Bldg. Archts. est. $150,000.

Neb., Wilber—COURT HOUSE, etc.—J. M. Korbel, clk. Saline Co., 3 story and basement, 70 x 100 ft., cnocrete, steel and stone, plain foundation, Court High St., to F. Swanson, McCook, $187,144. Noted Nov. 24.

Mo., Kirkwood — APARTMENT — McG. Mitchell, Saum Apartments, St. Louis, 3 story and basement, 71 x 92 ft., rein.-con., brick and terra cotta, 15,500 sq.ft. floor space, Bodley St. and Kirkwood Rd., here, to Pomeroy Constr. Co., 6226 Oakland St., St. Louis. Archts. est. $150,000.

Mo., St. Louis—APARTMENT—V. H. Rhodes, 6635 Delmar Blvd., 8 story and basement, rein.-con., brick and stone, Belt and Cabanne Aves., by day labor. F. G. Avis, 1019 Big Bend Rd., archt. Noted Nov. 17.

Mo., St. Louis — COMMERCIAL — Stix, Baer & Fuller Dry Goods Co., 6th St. and Washington Ave., 6 story and basement, 79 x 182 ft., rein.-con., brick and stone, Laclede Ave., to Boaz-Kiel Constr. Co., Ambassador Bldg. Archts. est. $750,000.

Wash., Seattle—HOTEL—Hillcrest Investment Co., c/o C. F. Mahon, archts., Lyon Bldg., 10 story and basement, 75 x 120 ft., concrete, steel, brick and terra cotta, 4th and Spring St., to A. D. Belanger, Everett. Archts. est. $500,000.

Calif., Bakersfield—HOSPITAL—F. E. Smith, clk. Kern Co., general contract 3 story, brick, steel and concrete annex, to Currie & Dulgar, Kern County Land Bldg., $143,600. Noted Nov. 17.

Calif., Burbank—STUDIO—First Natl. Productions, Inc., frame and stucco studio buildings, rein.-con. film storage buildings, etc., to Austin Co. of California, 777 East Washington St. Archts. est. to exceed $150,000. Noted Sept. 2, 1926.

Calif., Los Angeles—APARTMENT—J. & J. W. Yoakam, 6 story and basement, rein.-con. and steel, South Mariposa Ave., to Pasadena Building Corp., 955 Colorado St., Pasadena, approximately $250,000.

Calif., Los Angeles -- APARTMENT — J. Bane, c/o F. W. Stevenson, Spreckels Theatre Bldg., San Diego, rein.-con., to Simpson Constr. Co., 915 Bank of Italy Bldg., Los Angeles, $225,000. Noted Nov. 17.

Buildings—Commercial (Continued)

Calif., Los Angeles — HOTEL and APARTMENT—Dalton Investment Co., 7 story and basement, 95 x 135 ft., rein.-con., Western Ave., to C. L. Peck, Inc., H. W. Hellman Bldg.

Calif., Los Angeles—STORE and OFFICE—G. L. Eastman, 318 Hollywood Security Bldg., rein.-con., Hollywood Blvd., to Simpson Constr. Co., Bank of Italy Bldg., approximately $175,000.

Ont., Toronto — GARAGE and SHOWROOM—A. D. Gorrie & Co., 354 Victoria St., masonry and concrete contract 3 story and basement, 150 x 150 ft., concrete and brick, to Thompson Bros., Ryrie Bldg.; reinforcing, to Baines & David, 98 Esplanade E. Archts. est. $200,000.

Ont., Toronto — OFFICE, STORE and GARAGE — Robins Ltd., Natl. Bldg., general contract 2 story and basement, 80 x 160 ft., rein.-con., brick and steel, plain foundation, Bay and Bloor Sts., to M. De Joncheere, 72 Ostend Ave. Archts. est. $150,000.

Ont., Toronto—OFFICE and HOTEL—King-Adelaide Corp., c/o H. F. Williams, King Edward Hotel, general contract 2 office buildings, one 28 story and basement, 84 x 175 ft. and other 14 story and basement, 112 x 414 ft. with 38 story tower, also 28 story and basement, 82 x 238 ft., 900 room hotel, steel, brick and stone, concrete foundations, Jordan St., to W. H. Yates Constr. Co., 95 King St. E. Archts. est. $30,000,000.

Buildings—Industrial

Proposed Work

Vt., Rutland—GARAGE and REPAIR SHOP—Bardwell Hotel, N. J. Nicklaw, mgr., soon takes bids 1 story, rein.-con., brick and steel, plain foundation $40,000. A. H. Smith, Gryphon Bldg., archt.

Mass., Boston — POWER HOUSE and HEATING PLANT — City, Dept., Pub. Buildings, having sketches made by Desmond & Lord, 1 Beacon St., 1 story, brick and steel, plain foundation, outside jail, Charles St. $100,000.

Mass., Worcester — SALES, SERVICE GARAGE and REPAIR SHOP — Demers Bros. Co., 91 Grafton St., soon takes bids 1 story and basement, 100 x 100 ft., brick and steel, plain foundation, Green and Grafton Sts. $50,000. J. Rustigian, 16 Norwich St., archt.

Conn., Norwalk—FACTORY—Ballinger Co., archts., 100 East 42nd St., New York City, preparing revised plans 2 story, 128 x 143 ft., brick, Hoyt St., here, for E. H. Hotchkiss Co., 6-12 Hoyt St. $75,000. Former bids rejected. Noted Nov. 24.

N. Y., Brooklyn—LOCK FACTORY—Segal Lock & Hardware Co., 155 Leonard St. having plans prepared lock factory. Wolcott and Sullivan Sts. To exceed $50,000. Lockwood-Greene & Co., 100 East 42nd St., New York City, engrs.

N. Y., Rochester — GARAGE — Shoen Bros., 68 Genesee St., plans garage, 408 Brown St. Foote & Carpenter, Baptist Temple Bldg., archt. $40,000.

N. J., Bergenfield—BAKERY—Foerster Bakers, Inc., 207 North Washington Ave., having plans prepared by McCormick Co., Inc., 41 Park Row, New York City, 3 story and basement, 100 x 270 ft., brick and steel, plain foundation, South Washington and Rutland Aves., $150,000.

N. J., Elizabeth—GARMENT FACTORY—Owner, c/o J. B. Beatty, archt., 15 North Reid St., having plans prepared 3 story and basement, 40 x 155 ft., brick and steel, plain foundation, 7th, High and Marshall Sts. $50,000.

N. J., Perth Amboy — TERRA COTTA FACTORY—New Jersey Terra Cotta Co., 2 Catherine St., plans 2 story and basement, brick and steel, plain foundation, Catherine St. $60,000. Engineer and architect not selected.

Ala., Birmingham — FACTORY — Long-Lewis Hardware Co., Smith Park, soon takes bids 2 story, 140 x 200 ft., brick and concrete factory, and 1 story storage building in rear above. $150,000. Denham, Vankeuren & Denman, Age-Herald Bldg., archts.

O., Cleveland—LAUNDRY—Menk Bros. Damp Wash Co., C. G. Menk, mgr., 643 East 103rd St., having plans prepared by H. M. Morse & Co., Finance Bldg., 1 and 2 story, brick and steel addition, 643 East 103rd St. $40,000. Noted Aug. 4.

O., Dayton — FACTORY — Master Electric Co., Linden Ave., plans 3 or 4 story and basement brick factory. $200,000.

O., Steubenville—STRIP MILL—Wheeling Steel Corp. plans strip mill. $500,000.

Ind., Anderson—FACTORY—Delco-Remy Corp. of General Motors, C. E. Wilson, genl. mgr., plans 120 x 400 ft. assembly plant, and 150 x 150 ft. foundry, rein.-con., brick and steel, Noble St. and Belt R.R. tracks. $800,000.

Mo., Kansas City—GAS PLANT, etc.—Kansas City Gas Co., 910 Grand Ave., plans additions to buildings; also extending gas mains, during 1928. $1,000,000.

Tex., Arlington — FACTORY — Southern Ornamental Iron Wks., c/o T. C. Anderson, vice pres., 2425 South Harwood St., Dallas, had plans prepared 1 and 2 story, 100 x 317 ft., brick and rein.-con., Cooper St. $60,000. Private plans.

Tex., Brownsville — PACKING PLANT—Texas Citrus Fruit Growers Assn., c/o J. O. Shary, pres., Mission, plans 2 story, citrus packing plant, brick and concrete, here. $60,000.

Tex., El Paso — COPPER REFINING PLANT — Phelps-Dodge Corp., 99 John St., New York City, plans copper refining plant, on 5,580 acre site in Ascarate Grant, near here. $3,000,000. Private plans.

Tex., Los Fresnos (mail Brownsville)—COTTON GIN—Delta Impvt. Co., c/o E. E. Couch, Weslaco, having preliminary surveys made cotton gin plant, probably electrically operated, here. $40,000. Private plans.

Tex., San Angelo — ROUNDHOUSE — Atchison, Topeka & Santa Fe Ry. Co., M. C. Blanchard, ch. engr. (Western lines), Amarillo, having preliminary plans prepared fireproof roundhouse, here. $300,000.

Tex., San Antonio—ICE PLANT—Texas Ice House Inc., c/o A. J. Zilker, Austin, and San Antonio, c/o Grande Courts, having plans prepared 1 story, 78 x 105 ft., rein.-con., steel and hollow tile, Fredericksburg Rd. $60,000. Private plans.

Tex., Thurber—OIL TANK and WAREHOUSE—Texas Pacific Coal & Oil Co. plans steel oil tank facilities and large warehouse for distributing plant, Harrison Ave. and Coombes St. $160,000. Private plans.

N. M., Deming—ORE MILL—Peru Mining Co. (subsidiary of Illinois Zinc Co., 332 South Michigan Ave., Chicago, Ill.), plans ore mill, here. $200,000.

Ariz., Tucson — MILLING PLANT — Montana Mines Corp., F. H. Lerchen, mgr., (subsidiary of Eagle Picher Mining Co., Joplin, Mo.) plans milling plant, near here. $100,000.

Wash., Aberdeen—PULP MILL—West Lumber & Pulp Co., B. T. McBain, genl. mgr., takes bids about Jan. 20, pulp mill. $2,500,000.

Ore., Oregon City—FOUNDRY and MACHINE SHOP—Roake & Sons, c/o J. A. Roake, archt., Oregon City, take bids about Jan. 15, two 2 story, 48 x 65 ft.; rein.-con., plain foundation, Pacific Highway and South End Rd. $40,000

Calif., Berkeley—IRON WORKS—Bunting Iron Wks., 820 Parker Ave., plans new plant, Parker Ave.

Calif., Sacramento — MACHINERY — State Dept. Pub. Wks. having plans prepared by H. Gutterson, 526 Powell St., San Francisco, soon takes bids, machinery building concrete, brick and steel, for State Fair Grounds. $150,000.

Calif., San Bruno—AIRPLANE FACTORY—Western Aero Constr. Co., Inc., Jenevein Bldg., plans airplane factory. $35,000-$40,000.

Que., St. Lamberts—FACTORY—Monarck Electric Co. Ltd., Waterman St., plans factory. $75,000.

Ont., St. Thomas—DAIRY PLANT—Western Dairy Limited, W. R. Coulter, mgr. having plans prepared by J. T. Findlay, Talbot St., plant. $50,000.

Ont., Toronto—FACTORY—Artcraft Top & Trimmings Co. Ltd., 9 Bloor St. E., plans 2 story, 66 x 158 ft., brick and steel factory. $35,000.

Ont., Toronto—PLANT—I. T. S. Rubber Co. of Canada Ltd., 32 Alpine Ave., plans 3 story, brick on site Watt Feed Co. $50,000.

Bids Desired

Mass., Chelsea—FACTORY—Panco Rubber Co., F. Bernstein, pres., 31 Highland Ave., taking bids 1 story, 90 x 100 ft., brick and timber addition, plain foundation, Highland Ave. Schein & Levine, 448 Bway., archts. Noted Dec. 15.

Mass., Dorchester (br. Boston) — GARAGE and REPAIR SHOP—See "Contracts Awarded."

Mass., Melrose (Ind. br. Boston) — PRINTING PLANT—Melrose Free Press, Inc., E. J. MacLean, mgr., 504 Main St., taking bids 1 story, 50 x 80 ft., brick and stone, plain foundation, West Foster St. $40,000 incl. equipment. T. Hixon, 4 Liberty Sq., Boston, archt. Noted Dec. 15.

Mass., Worcester — SALES, SERVICE GARAGE and REPAIR SHOP — Demers Bros. Co., 91 Grafton St., taking bids 1 story and basement, 100 x 100 ft., brick, plain foundation, Green and Grafton Sts. $50,000. J. Rustigian, 16 Norwich St., archt.

N. J., Bayonne — ICE PLANT — See "Contracts Awarded."

N. J., East Orange—MANUFACTURING—See "Contracts Awarded."

N. J., Kearny (sta. Arlington)—MANUFACTURING—Western Electric Co., Inc., 195 Bway., New York City, taking bids general contract Building 85, 1 story and basement, 80 x 345 ft., rein.-con., brick and steel, here. $150,000. O. C. Spurling, 80 John St., New York City, engr. and archt.

N. J., Newark—FACTORY—D. Lehman, archt., 972 Broad St., taking bids general contract 2 story, brick and steel, plain foundation, 266 Fabyan Pl., here for Newark Brush & Scraper Co., 266 Fabyan Pl. $40,000.

Ind., Huntington—CREAMERY—Clover Leaf Creamery Co., taking bids rein.-con. and brick creamery. $40,000. R. W. Stevens, Citizens State Bank Bldg., archt.

Ind., Indianapolis—GARAGE—Embassy Realty Co., 540 North Meridian St., taking bids 3 story and basement, 90 x 140 ft., rein.-con., brick and stone, Pennsylvania and 30th Sts. $150,000. Doeppers & Lennox, 226 East Michigan St., archts.

Tex., Fort Davis—POWER PLANT—See "Contracts Awarded."

Tex., Nocona — POWER PLANT — See "Contracts Awarded."

Tex., Marfa—SODIUM and POTASH NITRATE PLANT—A. Snell and associates, c/o Jordan Hotel, taking bids 500 ton plant for mining sodium and potash nitrates on 5,000 acre tract. Private plans.

Calif., Fresno—ICE PLANT—Eng. Dept. Pacific Fruit Express Co., 65 Market St., San Francisco, taking bids ice plant, rein.-con., here. $650,000 or more.

Contracts Awarded

Vermont — PLANT — Vermont Hydro-Electric Corp., 26 Center St., Rutland, 2 plants, one at Glen Carvers Falls, and other at Mendon, to M. C. Tuttle Co., Park Sq. Bldg., Boston, Mass. Private plans.

Mass., Dorchester (br. Boston) — GARAGE and REPAIR SHOP—J. Barnerin, 321 Norfolk St., will build 1 story, 75 x 130 ft., concrete block, plain foundation, East Cottage St. $40,000. Work will be done by separate contracts. F. A. Norcross, 46 Cornhill, Boston, archt.

Mass., East Walpole—PLANT—Bird & Son, Inc., altering and constructing brick and timber addition, to M. W. Allen Constr. Co., East St., Walpole. Private plans.

Mass., Somerville—PLANT—Amer. Oil Products Co., 230 Milk St., Boston, 1 story, 55 x 135 ft., rein.-con., plain foundation, Washington St., to W. F. Condon & Sons Co., 222 Putman Ave., Cambridge.

Conn., Greenwich—SERVICE—Connecticut Light & Power Co., 274 Greenwich Ave., 3 story, 103 x 105 ft. electric power service building, brick, steel and concrete Field Point Rd. ,to U.G.I. Constr. Co., c/o owner. Archts. est. $200,000.

N. Y., Syracuse—FACTORY—Owner c/o contractor, 2 story, 70 x 300 ft. concrete and timber, Solar St. to Mondo Constr. Co., City Bank Bldg., $50,000.

N. J., Bayonne—ICE PLANT—F. and L. Mongiello, 74 West 23rd St., will build 1 story, brick and steel, plain foundation, 78-84 West 23rd St. $40,000. Work will be done by separate contracts. C. S. Goldberg, 437 Bway., archt. Noted Sept. 15.

N. J., East Orange—MANUFACTURING—Lock Joint Pipe Co., 150 Rutledge Ave. will build 2 story and basement, 40 x 300 ft. rein.-con., brick and steel, plain foundation, 150 Rutledge Ave. $40,000. Work will be done by separate contracts. Private plans.

Ky., Louisville—BOTTLING PLANT—Falls City Beverage Co., 31st St. and Bway., steel and concrete contract 2 story, 60 x 115 ft., rein.-con. and steel, 31st and Bway., to O. D. Klein, & Co., Louisville; carpentry work being done by day labor. T. J. Nolan, Interstate Southern Bldg., engr. and archt. Archts. est. $40,000.

Wis., West Allis—ICE PLANT—Random Lake Ice Co., 68 Locust St., Milwaukee, 1 story, 130 x 150 ft., brick, plain foundation, 70th St. and National Ave., to K. W. Constr. Co., 589 Moffett St., Milwaukee.

Mo., Springfield—SUB-STATIONS—See "Unclassified."

Mo., St. Louis — CREAMERY — Aro Creamery Co., 409 South Sarah St., 1 story 58 x 140 ft., rein.-con. and brick, 4112 Papin St., to McKelvey-Carter Constr. Co., 3800 West Pine St. Archts. est. $50,000.

Buildings—Industrial (Continued)

Tex., Edcouch—POWER PLANT—Central Power & Light Co., c/o Frost Bldg., San Antonio, will build 1 story, 58 x 102 ft., rein.-con. and steel, here. $80,000.

Tex., Fort Davis—POWER PLANT—Central Power & Light Co., c/o Frost Bldg., San Antonio, will build power plant unit with full equipment, here. $60,000. Work will be done by day labor. Private plans. Noted Aug. 11.

Tex., Fratt (mail Luxello)—LEATHER TANNERY PLANT—San Antonio Boot Co., c/o S. L. Gill, 5500 South Presa St., San Antonio, purchased townsite of Fratt, on Austin Rd., and plans tannery plant, here. $300,000. Work will probably be done by day labor. Private plans.

Tex., Nocona—POWER PLANT—Texas Louisiana Power Co., c/o H. A. Thompson, dist. mgr., will build 1 story, 150 x 250 ft., rein.-con., power plant. $325,000. Work will be done by day labor. Private plans. Noted Nov. 10.

Calif., Torrance—FACTORY—Dohney-Stone Drill Corp., 1 story, 180 x 360 ft., steel and galvanized factory, to C. L. Peck, H. W. Hellman Bldg, Los Angeles, to exceed $100,000.

Buildings—Educational, Religious

Proposed Work

Mass., Amherst — LABORATORY — Amherst College, W. H. Moore, Memorial Com., plans chemical laboratory. $150,000 or more.

Mass., Fitchburg—CHURCH and PARISH HOUSE—Christ Church, A. V. Bennett, pastor, having preliminary sketches made by H. Upjohn, Grand Central Terminal, New York City, altering and constructing church and parish house addition, Main, Fox, Hartwell and Elm Sts. $250,000.

Mass., North Abington—HIGH SCHOOL—Town, Bd. Selectmen, plans altering and constructing high school addition. $150,000 or more. Engineer and architect not selected.

Mass., Springfield—SCHOOL—City, H. L. Dorman, chn. school com., plans brick and steel school. To exceed $150,000. Engineer and architect not selected.

Mass., Waltham—CHURCH—First Presbyterian Church, A. L. Blackloch, 74 Maple St., plans 1 story and basement, brick and stone, Alder St. $150,000 or more. Engineer and architect not selected.

Conn., Mansfield — DORMITORY, etc. — Mansfield Training School & Hospital, C. F. LaNoure, supt., having plans prepared by Towner & Sellew, 363 Main St., Middletown, 3 story and basement, brick and steel dormitory and small pavilion. $150,000. Noted Nov. 3.

N. J., Belleville (br. Newark) — SCHOOLS — Bd. Educ., Washington Ave., having sketches made by C. G. Jones, 280 Bway., New York City, 2 story and basement, brick and steel, plain foundation, John St.; also by P. West, Federal Trust Bldg., Newark, 2 story and basement, brick and steel addition, plain foundation, Union Ave. $150,000 each.

N. J., Cresskill—SCHOOL—Bd. Educ., Boro Hall, having plans prepared by Hacker & Hacker, Fort Lee Trust Bldg., Fort Lee, 2 story and basement, brick and steel, plain foundation. $450,000. Noted Oct. 27.

N. J., Little Ferry — SCHOOL — Bd. Educ., Main St., having plans prepared by Hacker & Hacker, Fort Lee Trust Bldg., Fort Lee, 2 story and basement, brick and steel addition, plain foundation. $150,000. Noted July 14.

N. J., Trenton — CONVENT — Catholic Dioceses of Trenton, T. J. Walsh, bishop, plans several buildings, at Villa Victoria, near here. To exceed $200,000. Engineer and architect not selected.

N. J., Roselle Park (Ind. br. Elizabeth) —SCHOOL—Bd. Educ. having sketches made by H. B. Brady, 333 North Broad St., Elizabeth, 2 story and basement, brick and steel addition to Sherman School, plain foundation, Grant Ave., here. $150,000.

Pa., Phila. — DORMITORY — University of Pennsylvania, 36th and Chestnut Sts., having plans prepared by Stewardson & Page, 315 South 15th St., 4 story and basement mens dormitory, on campus. $150,000.

Pa., Phila.—ENGINEERING—Drexel Institute, K. G. Matheson, pres., 32nd and Chestnut Sts., having plans prepared 4 story and basement engineering building. To exceed $500,000. Engineer and architect not selected.

Md., Baltimore—LIBRARY—City plans rein.-con., brick and stone, Cathedral St. from Mulberry to Franklin Sts. $2,500,000. Engineer and architect not selected.

Tenn., Knoxville — EDUCATIONAL — State Bd. Educ., Nashville, takes bids about Feb. 1, chemistry building $150,000, geology and physics building $150,000, girls dormitory $200,000, on campus, here. G. C. Miller, Chicago, Ill., and Barber & McMurray, Tennessee General Bldg., archts. Noted Nov. 17.

O., Hayesville—SCHOOL—J. R. Atterholt, clk. Bd. Educ., having plans prepared by F. S. Rusk, 35 East Main St., Columbus, 3 story, brick and concrete school. $150,000.

O., Ontario—SCHOOL—O. S. Dent, clk. Bd. Educ., Springfield Twp., having plans prepared by Porter & Virtue, 1714 North High St., Columbus, 3 story and basement, 100 x 125 ft., brick, stone and concrete school. $150,000.

O., Shauck — HIGH SCHOOL — A. W. Shipley, clk. Bd. Educ., having plans prepared by F. S. Rusky, 35 East Main St., Columbus, 2 story and basement, fireproof, incl. gymnasium and auditorium.

Ind., Crawfordsville—CHAPEL—Wabash College, L. B. Hopkins, pres., having preliminary plans prepared by J. F. Larson, Hanover, N. H., 2 story and basement, rein.-con., brick and steel, on campus. $150,000.

Ind., Evansville — SCHOOL — Catholic School, F. P. Ryves, pastor, 7th St., having preliminary plans prepared 2 story and basement, 60 x 120 ft., rein.-con., brick and steel, incl. auditorium and 8 class rooms, 7th and Vine Sts. $160,000. Engineer and architect not selected.

Ind., Ft. Wayne — SCHOOL — School Comrs., 1225 Clinton St., takes bids about Jan. 1, Forest Park School, 2 story and basement, rein.-con., brick and steel, incl. gymnasium and 10 class rooms. $150,000. G. Mahurin, 425 Standard Bldg., archt.

Ind., Frankfort—SCHOOL—Comrs. having preliminary plans prepared by R. W. Leonard, 309 Peoples Life Bldg., 2 story and basement, 115 x 180 ft., rein.-con., brick and steel, 3rd St. $200,000.

Mich., Bloomfield Hills (Birmingham P. O.) — DORMITORY — Christ Episcopal Church having plans prepared by Cranbrook Architectural Serv., Lone Pine Rd., 2 and 3 story and basement, rein.-con., brick and steel, plain foundation, Lone Pine Rd. $150,000.

Mich., Detroit—SYNAGOGUE—Congregation B'Nai Moshe, c/o Kohner & Payne, archts., Kresge Bldg., having plans prepared 2 story and basement, 1,000 seating capacity, brick and steel, plain foundation, Dexter Blvd. $175,000.

Mich., Pontiac — SCHOOLS — Bd. Educ. plans Eastern Junior High School, McCanal and Crofoot School additions, and 2 elementary schools, each 2 story and basement, rein.-con., brick and steel, plain foundations. $625,000. Engineer and architect not selected.

Ill., East St. Louis—HIGH SCHOOL—Catholic High School Bd., c/o C. Gilmartin, pastor, 813 Baugh Ave., purchased site and plans 3 story, rein.-con., brick and stone St. Clair Ave. $200,000.

Ill., McLeansboro—HIGH SCHOOL—Bd. Educ., having preliminary plans prepared by H. E. Boyle & Co., Furniture Bldg., Evansville, Ind., 3 story, rein.-con. brick and stone high school. Archts. est. $150,000.

Minn., Minneapolis — SCHOOL — Bd. Educ., City Hall, having plans prepared 2 story and basement, rein.-con., brick, and Bedford stone, 44th and Sheridan Aves. $230,000. Private plans.

Minn., St. Cloud—CHURCH and SCHOOL —St. Anthony Roman Catholic Church, 100 24th Ave. N., having plans prepared by N. W. Fisher, St. Marys Bldg., church $120,000 and school $60,000, both rein.-con. and brick.

Kan., Lawrence—BIOLOGICAL—Kansas University, c/o Bd. of Regents, soon takes bids 3 story and basement, 94 x 160 ft., rein.-con. and stone biological building. $255,000. C. D. Cuthbert, State House, Topeka, archt. Noted June 23.

Kan., Pittsburg—MUSIC HALL—Kansas State Teacher's College, c/o Bd. of Regents, soon takes bids 3 story, 90 x 144 ft. music hall, rein.-con., brick and stone. $150,000. C. D. Cuthbert, State House, Topeka, archt. Noted Dec. 22.

Mont., Great Falls—SCHOOL—Bd. Educ. having plans prepared by Bird & Van Teylingen 815 1st Natl. Bank Bldg., Great Falls, and Croft & Boerner, associated archts., 1004 Marquette Ave., Minneapolis, Minn., 2 or 3 story and basement, rein.-con. and brick school and stadium, 15,000 seating capacity. $1,000,000. Noted Dec. 22.

Tex., Amarillo—CHURCH—First Baptist Church, G. L. Yates, pastor, had plans prepared by G. A. Carlander, 15 Massie Bldg., and takes bids early in 1928, 4 and 5 story, brick, stone, steel and rein.-con., Tyler and 13th St. $300,000.

Tex., Ft. Worth—SUNDAY SCHOOL, etc. —C. H. Woodruff, archt., 400 Reynolds Bldg., takes bids about Jan. 15, 6 story, brick, stone, steel and rein.-con., Taylor St. $225,000, for 1st Christian Congregation c/o A. Anderson, pastor. Noted Dec. 9, 1926.

Okla., Okemah—HIGH SCHOOL—Bd. Educ. having preliminary plans prepared rein.-con. and brick, plain foundation, 4th St. $175,000. Engineer and architect not selected.

Ore., Portland — SCHOOL — Columbia University, c/o E. Donahue, pres., having preliminary plans prepared by Jacobberger & Smith, Railway Exch. Bldg., 10 buildings, on campus. $4,000,000.

Calif., Los Angeles—EDUCATIONAL—University Methodist Episcopal Church, 1016 West Jefferson St., having plans prepared by C. R. Johnson, 3551 University Ave., 3 story, rein.-con., 36th St. $200,000. Noted Oct. 6.

Calif., Los Angeles—SCHOOL-HOME—Protestant Welfare Assn., 40 Hunt & Chambers, archts., Hibernian Bldg., having preliminary plans prepared probably rein.-con. school. $250,000.

Calif., Los Angeles — UNIVERSITY — University of California, had plans prepared by Allison & Allison, Hibernian Bldg., 3 story and basement, 129 x 218 ft., rein.-con. university buildings, 60,000 sq.ft. floor space, at Westwood. $460,000.

Calif., Oakland — ADMINISTRATION — Oakland School Dist. having preliminary plans prepared by Building & Grounds Dept., Bd. Educ., fireproof administration building. $200,000.

Calif., Oakland — GYMNASIUM — City, School Dist., having plans prepared by Building & Grounds Dept., Bd. Educ., Oakland, rein.-con. gymnasium. $150,000.

Calif., San Francisco—HIGH SCHOOL—City and San Francisco Co. having plans prepared by Miller & Pflueger, Hobart Bldg., Roosevelt Junior High School, fireproof, Arguello Blvd. $400,000.

Calif., San Francisco—HIGH SCHOOL—City and San Francisco Co. having plans prepared by G. A. Lansburgh, 105 Montgomery St., brick and steel addition, Frederick St. $150,000.

Calif., San Francisco—HIGH SCHOOL—City and San Francisco Co. having plans prepared by O. Appleton, 68 Post St., Junior High School, fireproof Otsego Ave. $250,000.

Calif., Sawtelle—CHURCH—First Presbyterian Church, S. MacLennan, pastor, Hollywood, having plans prepared by Sexsmith & Wade, Taft Bldg., Los Angeles, rein.-con.; here. $150,000.

Calif., Stockton—COLLEGE—College of Pacific plans college building. $250,000. Engineer and architect not selected.

Que., Montreal—CHURCH—Presbyterian Church of St. Andrew & St. Paul, 392 Dorchester St. W., G. B. Donald, pastor, plans new church, Sherbrooke St. W. $400,000.

Que., Mount Royal—SCHOOL—Protestant School Bd. plans 3 story, fireproof school. $175,000. Engineer and architect not selected.

Que., St. Hyacinthe—NOVIATE—Marists Bros., St. Mathias, plans noviate, here. $300,000.

Bids Desired

Mass., Brookline (br. Boston) — LIBRARY—Dec. 30, by Town, A. L. Endicott, chn., Trustee of Pub. Library, 1 and 2 story and basement, brick and stone, plain foundation. $150,000. Kilham, Hopkins & Greeley, 9 Park St., Boston, archts.

N. Y., Middleville—SCHOOL—Jan. 10, by Bd. Educ., Memorial Hall, E. M. Jackson, clk., school in School Dist. 5. $150,000. J. R. White, 109 State Albany, archt.

N. J., North Bergen (Ind. br. Weehawken)—SCHOOL—Jan. 10, by Bd. Educ. North Bergen Twp., Municipal Bldg., Main St. and Hudson Blvd., Horace Mann School (P. S. 9), 38th and 39th Sts. Hensel & Weir, 254 Summit Ave., Union City, archts. Noted Sept. 15.

N. J., Princeton—SCHOOL—Jan. 19, by School Bd., 2 story and basement, brick and steel school. $750,000. E. Sibley & L. C. Litcht, Bluff Rd., Palisade, archts. Noted Oct. 6.

Ala., Birmingham—SCHOOL—Jan. 6, by Bd. Educ., Woodrow Wilson School. Warren, Knight & Davis, Empire Bldg., archts. W. B. Ittner, 911 Locust St., St. Louis, Mo., consult. archt.

Ind., Evansville — SCHOOL — School Comrs. taking bids and open same about Jan. 15, Grade and High School, 2 story and basement, rein.-con., brick and steel, incl. gymnasium, auditorium and 30 class rooms, $300,000. Fowler & Karges, 707 Furniture Bldg., archts.

Buildings—Educational, Religious (Cont.)

Ind., Oakland City—HIGH SCHOOL—Jan. 24, by School Comrs., 2 story and basement, 175 x 200 ft., rein.-con., brick and steel, incl. gymnasium, auditorium and 10 class rooms. $150,000. H. E. Boyle, 405 Furniture Bldg., Evansville, archt.

Wis., Milwaukee—HIGH SCHOOL—Jan. 5, by Bd. School Directors, F. M. Harbach, secy., George H. Walker Junior High School, 4 story and basement, 207 x 276 ft., rein.-con. and brick, plain foundation, 27th Ave. Private plans.

Minn., Minneapolis—SCHOOL—Jan. 5, by Bd. Educ., 305 City Hall, 2 story and basement, 150 x 260 ft., rein.-con., brick and Bedford stone, 52nd St. and 30th Ave. S. $235,000. Private plans. Noted Nov. 3.

Bids Received

N. Y., New York — SCHOOL of COMMERCE—Bd. Trustees College of City of New York, M. J. Strook, chn., 139th St. and Convent Ave., general contract Commerce Building, Lexington Ave. and 23rd St., from Kenny Bros., Inc., 33 Old Bway., $1,039,000. Noted Dec. 1.

Contracts Awarded

Conn., New London—NURSES HOME—Lawrence Memorial Hospital Assn. c/o A. Prindiville, 3 story and basement, brick and steel, 100 room nurses home, Montauk Ave. and Faire Harbor Pl., to H. Wales Lines Co., 134 State St., Meriden. Archts. est. $150,000. Noted Dec. 8.

N. Y., Forest Hills (sta. Flushing) — SCHOOL — Maginnis & Walsh, archts., Statler Bldg., Boston, Mass., 2 story and basement, brick and stone, plain foundation, Ascan Ave. and Austin St., here, to L. J. Rice, 372 Burns St., for Our Lady Queen of Martyrs Church. Noted Dec. 1.

N. Y., Yonkers — CHURCH — St. Pauls Episcopal Church, c/o Cram & Ferguson, archts., 248 Boylston St., Boston, Mass., 1 story and basement, brick and steel, Palisade Ave., here, to Kennith MacKay & Co., Inc., 2 Hudson St. Archts. est. to exceed $150,000. Noted Oct. 27.

N. C., Raleigh — COLLEGE — Building Com. North Carolina State College, completing engineering building, brick, on campus, to G. P. Rose, Goldsboro, $182,000.

Ala., Birmingham — SCHOOLS — School Bd. **(e. e. means engrs. est.)**, to L. C. Ellison Co., 2907 16th Ave., 1 story, 50 x 100 ft. addition to Acipco School, $29,101 e. e. $29,500, 2 story, 50 x 80 ft. addition to Bush School, $52,843 e. e. $53,000, both brick, and 2 story, 50 x 80 ft., brick and stone addition to Glen Iris School, $46,957 e. e. $47,000; to Miller Bros., 2024 4th Ave. N., Minnie Holman School, 2 story, 75 x 100 ft., brick and stone $118,147 e. e. $120,000, and Council School, 1 story, 50 x 75 ft., brick, $44,460 e. e. $45,000; also to C. Hall, 1116 North 29th St., Kennedy School, 2 story, 75 x 100 ft., brick and stone addition, $59,005 e. e. $60,000. Grand total $350,513.

Miss., Crystal Springs—SCHOOL—J. Sullivan, supt. Copiah Co. Bd. Educ., Hazelhurst, general contract 3 story, rein.-con., brick and stone, here, for Consolidated School Dist. of Crystal Springs, to Key-Langston Co., Murray, Ky., $161,742. Archts. est. $225,000. Noted Dec. 15.

O., Mt. Washington (sta. Cincinnati) — SCHOOL—St. Gregorys Seminary, 4 story and basement, brick and rein.-con., plain foundation, Ohio Pk., to M. J. Roche Constr. Co., Southern Bank, Cincinnati, $1,500,000.

Ind., Indianapolis — SCHOOL — School Comrs., 150 North Meridian St., general contract School 73, 2 story and basement, rein.-con., brick and steel, 4101 East 30th St., to R. W. Bauman, 418 Beauty Ave. Archts. est. $150,000 Noted Nov. 24.

Ind., Seymour — LIBRARY — Seymour Pub. Library, general contract rein.-con., brick, steel and stone, to W. J. Abraham, Seymour. Archts. est. $150,000.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., 2 story and basement, 23 room, rein.-con., brick and steel, plain foundation, Linwood Ave., to Talbot & Meier, 6853 Michigan Ave., $238,404. Noted May 5.

Mich., Rochester—SCHOOL—Bd. Educ., 2 story and basement, 18 room, rein.-con., brick and steel, plain foundation, Wilcox and 5th Sts., to J. L. Olson, 62 Dakota Ave., Pontiac. Archts. est. $150,000. Noted Nov. 3.

Mich., Royal Oak (Ind. br. Detroit)—SCHOOL—Bd. Educ., 2 story and basement, rein.-con., brick and steel, plain foundation, Madison Site, to Shelden Constr. Co., 548 Buhl Bldg., Detroit. Archts. est. $150,000.

Ill., Chicago — SCHOOL, AUDITORIUM and GYMNASIUM—Sisters of Providence, 3107 West Van Buren St., general contract 4 story, 200 x 200 ft., rein.-con., brick and stone, Central Park Blvd. and Monroe St., to W. E. O'Neill Constr. Co., 19 South La Salle St. Archts. est. $1,000,000. Noted June 2.

Calif., Los Angeles—CONVENT—Church of Good Shepherd, 1312 South Arlington Ave., 4 story and basement, 35 x 225 ft. with 30 x 100 ft. and 30 x 60 ft. wings, rein.-con., Arlington Ave. near Pico St., to Macdonald & Driver, Bd. Trade Bldg., $297,000. Noted Nov. 24.

Federal Government Work

Proposed Work

N. Y., Fort Lafayette (mail Brooklyn)—Repairing—Spec. 5546—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans repairing cornices and gutters, at Naval Ammunition Depot, here.

Pa., Phila.—Hydraulic Dredge—U. S. Engineer Office plans hydraulic dredge.

D. C., Wash.—Pontoons—U. S. Engineer Office plans constructing 20 steel pontoons.

D. C., Wash.—Shaft—U. S. Engineer Office plans drilling 10 in. shaft for District of Columbia Water Supply.

S. C., Parris Island—Tank—Spec. 5522—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans tank, at U. S. Marine Barracks, here.

Fla., Jacksonville—Pump—U. S. Engineer Office plans carbon steel dredge pump, complete with spare parts for dredge "Barnard."

O., Cincinnati—Horses and Props—U. S. Engineers Office, plans 175 horses and 25 props for repairing Dam 37, Ohio River.

Bids Desired

Va., Norfolk—Piping—Jan. 17, by Treas. Dept., at office Supervising Archt., Wash., D. C., piping at U. S. Post Office, here.

Ga., Augusta—Roads—Jan. 10, by U. S. Veterans Bureau, Arlington Bldg., Wash. D. C., roads, walks and grading at U. S. Veterans Hospital 62, here.

O., Cincinnati—Wicket Boxes—Jan. 16, by U. S. Engineer Office, constructing cast steel wicket boxes; adv. E. N.-R. Dec. 29.

Ill., Chicago — Quarters — Jan. 16, by Treas. Dept., at office Supervising Archt., Wash., D. C., quarters for medical officer, junior medical officers, attendants, nurses and pharmacists, at U. S. Marine Hospital, here.

Ill., Elgin — Extension — Jan. 16, by Treas. Dept., at office Supervising Archt., Wash., D. C., extension U. S. Post Office, here.

Missouri—Earthwork—Jan. 10, at office Dist. Engineer, Northern Mississippi River Comn., Customhouse, St. Louis, 7,000 cu.yd. earthwork in Levee Dist. 1, Perry Co.; adv. E. N.-R. Dec. 29.

Okla., Muskogee—Roads—Jan. 17, by U. S. Veterans Bureau, Arlington Bldg., Wash. D. C., constructing concrete roads at U. S. Veterans Hospital 90, here.

Wash., Seattle—Dredging—Jan. 6, by U. S. Engineer Office, dredging salt water basin Lake Washington Ship Canal. Noted Dec. 8.

California—Needle Valves—Jan. 27, by Bureau Reclamation, Dept. Interior, Wash., D. C., two 42 in. balanced needle valves for Stony Gorge Dam, Orland Project, here; adv. E. N.-R. Dec. 29.

Bids Received

Ga., Savannah—Quarters—Treas. Dept., at office Supervising Archt., Wash., D. C., medical officers quarters, U. S. Marine Hospital, here, from Southern Constr. Co., Pensacola, Fla., $17,660. Noted Nov. 24.

O., Columbus—Lighting—Treas. Dept., at office Supervising Archt., Wash., D. C., lighting at U. S. Post Office, here, from Strang Electric Co., 214 South 7th St., Phila., Pa., $3,100. Noted Dec. 8.

Contracts Awarded

N. Y., New York—Motor Generator Sets, etc.—Spec. 5547—Bureau Yards & Docks, Navy Dept., Wash., D. C., motor generator sets and switchboard equipment, at Navy Yard, here, to General Electric Co., River Rd., Schenectady, $27,945. Noted Dec. 22.

Pa., Pittsburgh—Bear Trap Leaves—U. S. Engineer Office, Dec. 7, 2 sets beartrap leaves for Lock 6, Ohio River, to Nashville Bridge Co., foot Shelby Ave., Nashville, Tenn., $61,104. Noted Nov. 17.

D. C., Wash.—Retaining Walls—U. S. Veterans Bureau, Arlington Bldg., retaining walls, roads, walks, fences, etc. at U. S. Veterans Hospital, Mount Alto, here, to Bahen & Wright, 1223 New York Ave. N.W., $29,578. Noted Dec. 1.

Va., Norfolk—Bulkhead—U. S. Engineer Office, brush fascines and rip rap stone for repairing Craney Island Bulkhead, to Os[illegible] Dashiell & Co., 507 South St., Portsmouth, $42,490. Noted Nov. 17.

W. Va., Williamson—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., constructing U. S. Post Office and Court House, here, to Virginia Eng. Co., 1st Natl. Bank Bldg., Norfolk, Va., $149,718. Noted Dec. 15.

Tex., Fort Sam Houston (sta. San Antonio)—Barracks—A. W. Parker, Quartermaster Corp., infantry and regimental barracks, to L. T. Wright & Co., 911 Builders Exch. Bldg., San Antonio, $476,162. Noted Dec. 15.

California—Road—C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., Sheldon Bldg., San Francisco, grading, etc. Big Bear Valley Natl. Forest Highway, San Bernardino Co., to J. G. Donovan, 4031 Goodwin Ave., Los Angeles, $339,125. Noted Dec. 1.

Calif., San Diego—Distributing System and Extension—Spec. 5497 and 5503—Bureau Yards & Docks, Navy Dept., Wash., D. C., distributing system, to H. Lawson, 465 Tehema St., San Francisco, $41,400 (120 days); and extending ship and storage facilities, to W. B. Melhorn, 931 West Washington St., $12,960 (150 days), both at Naval Operating Base, here. Noted Dec. 15.

FEDERAL POWER COMMISSION

Application for License and Permits

Applications

846—Southern California Edison Co., 306 West 3rd St., Los Angeles, Calif., wants license transmission line partly within Angeles Natl. Forest, Los Angeles Co.

847—H. L. Vorse, 421 Lumbermens Bldg., Portland, Ore., wants preliminary permit power project within Mt. Hood Natl. Forest, on Lake Branch West Fork of Hood River, Eagle Creek, Wahtum and Lost Lakes, in Hood River and Multnomah Counties.

848—Wells Power Co., Wells, Nev., wants license power project partly within Humboldt Natl. Forest, Trout Creek, Elko Co.

849—Deschutes Falls Power Co., 215 North Carson St., Carson City, Nev., wants preliminary permit power project on public lands on Deschutes River, Sherman and Wasco Counties, Oregon.

850—J. G. Kelley, 7 East 16th St. N., Portland, Ore., wants preliminary permit power project partly within Santiam Natl. Forest, on Maron Lake and North Fork Santiam River, Marion and Linn Counties.

851—J. G. Kelley, 7 East 16th St. N., Portland, Ore., wants preliminary permit power project within Siuslaw Natl. Forest, on Loon Lake and Mill Creek, in Douglas Co.

852—City of Eugene, Eugene, Ore., wants preliminary permit power project on McKenzie River, Lane Co.

Unclassified

Proposed Work

Playground — Medford (br. Boston), **Mass.**—City, Park Dept., plans public playground between Boston and Maine R.R. tracks and Main St. $50,000. Private plans.

Arena—Buffalo, N. Y.—Buffalo Forum, Inc., 1825 Hotel Statler, having plans prepared by H. E. Plumer & Associates, 775 Main St., arena, incl. arcade, hockey rink, and indoor sports arena, Genesee St. and New York Central Belt Line. $1,000,000.

Stadium and Playground — Union City, N. J.—Bd. City Council, Municipal Bldg., plans concrete stadium and playgrounds. $25,000. H. Thourot, city engr.

Underpass — Raleigh, N. C. — Seaboard Air Line Ry., W. D. Faucette, ch. engr., Savannah, Ga., plans rein.-con. underpass beneath its 8 tracks crossing Peace St., here. $40,000.

Paper and Pulp Mill — Sylva, N. C. — Meade Paper Co., Callahan Bank Bldg., Dayton, Ohio, acquired controlling interest in extract plant of Parson Tanning Co., and plans pulp mill, 100 tons daily output capacity, here. E. L. McKee, Sylva, genl. mgr.

Stadium—Cleveland, O.—Bd. Educ., F. G. Hogen, dir., plans athletic field and stadium. $250,000. G. M. Hopkinson, Auditorium Garage Bldg., engr.

Unclassified (Continued)

Tunnel — Kent, O. — Bd. Trustees Kent Normal School making plans 700 ft. 6 x 6½ ft. concrete tunnel for main, steam and electric lines. Ronan & Ingleson, 1614½ North High St., Columbus, archts.

Car Barn—Stratford (mail Delaware), **O.** —Officials Columbus Delaware Electric Co., Delaware, takes bids about Jan. 1, rebuilding 2 story car barn, recently destroyed by fire. $100,000.

Parks and Playgrounds — Fort Smith, Ark.—See "Streets and Roads."

Gas Mains — Kansas City, Mo. — See "Buildings—Industrial."

Port Improvements—Corpus Christi, Tex. —Nueces Co. voted $1,500,000 bonds, port improvements, incl. wharf, warehouse, loading facilities, etc. Address N. Benton, Corpus Christi, co. judge.

Oil Pipe Line—Oklahoma and Texas—Sinclair Oil Co., Tulsa, Okla., made preliminary plans 100 mi. oil pipe line, steel, between Healdton, Okla. and Mexia, Tex. $750,000. Private plans.

Transmission Line — Oklahoma — South West Light & Power Co., Braniff Bldg., Oklahoma City, made preliminary plans 16 mi. 13,200 volt transmission line between Minco and Mustang. $25,000. E. R. Ernsberger, Braniff Bldg., Oklahoma City, engr.

Transmission Line — Oklahoma — South West Light & Power Co., Braniff Bldg., Oklahoma City, plans 10 mi. 13,200 volt transmission line between Clinton and Arapaho. $25,000. E. E. Ernsberger, Braniff Bldg., Oklahoma City, engr.

Natural Gas System — Apache, Okla. — Apache Gas Co. made preliminary plans 4 mi. gas line to Apache gas fields and distribution system, here. $25,000. R. Gilbreath, Apache, engr.

Underpass — Ponca City, Okla. — City voted $55,000 bonds, underpass under Santa Fe R.R. tracks, at South Ave. H. W. Crawford, Ponca City, engr.

Lighting System—Garden Grove, Calif.—Plans ornamental lighting system in business section town. To exceed $25,000.

Docks — Hamilton, Ont. — Hamilton By-Product Coke Ovens Ltd., 20 Main St. E., soon takes bids new docks. $1,000,000. Noted Mar. 24.

Transmission Line — Trenton, Ont. — Hydro Electric Power Comn. of Ontario, 190 University Ave., Toronto, F. A. Gaby, engr., plans 37 mi. 44,000 electric transmission line from here to Port Hope. $250,000.

Elevator—New Westminster, B. C.—W. G. Swan and C. D. Howe & Co., engrs., Birks Bldg., Vancouver, preparing plans and take bids about Jan. 1, 1,000,000 bu. concrete elevator with storage bins, on Fraser River, here, for Fraser River Elevator Co. Ltd. $700,000.

Wharf—Port Alberni, B. C.—Dominion Govt., Ottawa, Ont., having plans prepared and soon takes bids 100 x 400 ft. timber wharf with sheds, $150,000. J. P. Forde, Victoria, engr.

Bids Desired

Heating, Plumbing, etc.—Brookline (br. Boston), **Mass.** — A. J. Halfenstine, 129 Washington St., taking bids heating, plumbing and electrical work in home, Kent St., for Brookline B. P. O. E. 886. To exceed $25,000.

Golf Course and Club — New Haven, Conn. — See "Contracts Awarded."

Foundation—Buffalo, N. Y.—Jan. 10, by A. E. Smith, gov. and chn. State Office Site & Building Comn., Capitol, Albany, foundation State Office Building.; adv. E. N.-R. Dec. 29. Noted Mar. 17 under "Buildings-Commercial."

Playground—Brooklyn, N. Y.—Jan. 5, by C. E. Dobbin, acting Supt. School Buildings, Flatbush Ave. extension and Concord St., excavating, paving, fencing, etc., for playground, Lafayette and Classon Aves., here, for Bd. Educ., 500 Park Ave., New York City.

Athletic Field—New York, N. Y.—Jan. 5, by C. E. Dobbin, acting Supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, general contract George Washington High School Athletic Field, Amsterdam, Fort George and Audubon Aves., here, for Bd. Educ., 500 Park Ave. Noted Jan. 23.

Pumping Equipment—New York, N. Y.—Jan. 6, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., installing city owned pumping equipment and installing additional pumping equipment at 77th, 108th, 149th, 171st and 207th Sts. on Washington Heights Line.

Tile Work, etc.—New York—Jan. 6, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, miscellaneous tile, mosaic and plaster work at stations of Rapid Transit R.R. in Manhattan, Brooklyn and Bronx Boros. (Contr. 3.)

Heating—Rochester, N. Y.—Jan. 18, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Albany, heating, sanitary and electrical work in Buildings 1, 2, 3 and 4, at Rochester State Hospital, here; adv. E. N.-R. Dec. 29.

Boardwalk—Manasquan, N. J.—Jan. 3, by Boro Council, A. B. Appleget, clk., 4,250 lin.ft. boardwalk on Manasquan Beach between Ocean Ave. and Manasquan Inlet. Sincerbeaux, Moore & Shinn, consult. engrs.; adv. E. N.-R. Dec. 29. Noted Dec. 1.

Lighting System—Columbus, O.—Jan. 5, by W. H. Duffy, pres. Bd. Purchase, City Hall, lighting system in 12 streets, incl. one hundred seventy-five 13 ft. and eighteen 16 ft. ornamental standards, etc., for City. W. T. Turner, 519 Dublin Ave., engr.

High Tension Line Towers—Illinois—See "Contracts Awarded."

Hydro-Electric Development—Springfield, Mo.—See "Contracts Awarded."

Bids Received

Subway—New York—Bd. Transportation, J. H. Delaney chn., 49 Lafayette St., New York City, Dec. 21, constructing Sect. 12, Route 107, Rapid Transit R.R. extending under Manhattan Ave., Newtown Creek, private property, Vernon and Jackson Aves. from Freeman St., Brooklyn Boro to Arch St., Queens Boro, from Mid East Constr. Co., 2265 Bedford Ave., Brooklyn, $6,942,000. Noted Dec. 1.

Contracts Awarded

Golf Course and Club—New Haven, Conn. —City, Park Dept., will build golf course by separate contracts, under supervision R. D. Pryde, Orange, Conn. General contract 2 story, 50 x 110 ft. clubhouse, to Kelley & Wood, 59 Emerson St. Engrs. est. $100,000. Noted Nov. 17.

Hydro-Electric Development—Springfield, Mo.—Empire Dist. Electric Co., c/o H. L. Doherty, 66 Wall St., New York City, will build Table Rock Dam, rein.-con., 175 ft. high, to supply four 37,000 k.w. generators, here. $16,000,000; also power transmission lines and sub-stations, etc., by day labor. Total $25,000,000. R. F. Griswold, c/o H. L. Doherty, 66 Wall St., New York City, ch. engr.

High Tension Line Towers — Illinois — Illinois Power & Light Corp., 231 South La Salle St., Chicago, will erect 20 steel towers 60 ft. high on 12 x 16 ft. rein.-con. base, to carry high tension line across Shoal Creek Bottoms from Granville to Pocahontas, by day labor. Private plans.

Street Lighting System—St. Joseph, Mo. —Relocating 100 intersection lamps, 152 type 61-D, and 393 bracket lights 1227-D King style whiteway lights, to St. Joseph Railway Light, Heat & Power Co., St. Joseph, $60,529. Engrs. est. $64,500.

Oil Pipe Line—Texas—Atlantic Oil Producing Co., Midland, 10 in. pipe line from Winkler Co. oil fields to tank farm near Midland, to Janes Contg. Co., Wichita Falls, $180,000, and welding, to Meador & Whitaker, Burkburnet, approximately $40,000; also furnishing 51 mi. 10¾ in. O. D. plain end double length pipe beveled for welding, to Natl. Tube Co., Frick Bldg., Pittsburgh, Pa., 20 mi. single length pipe, same specifications as above to Jones & Laughlin Steel Corp., Ross St., Pittsburgh, Pa., 2 pump stations at Wink and near Judkins, each equipped with two No. 5 HMT type 4 stage, Cameron centrifugal pumps. to General Electric Co., River Rd., Schenectady, N. Y., engrs. est. $700,000.

Undergrade Crossings, etc.—Applegate, Calif. — State Hy. Dept., Sacramento, 2 undergrade crossings, under Southern Pacific R.R. tracks, near here, to W. A. Bechtel, 625 Market St., San Francisco, $43,209. Noted Dec. 15.

Rolling Doors — Oakland, Calif. — City Port Comn., 62 steel rolling doors for Grove St. Pier, to Gunn, Carle & Co., 444 Market St., San Francisco, $28,500. Noted Dec. 22.

Grain Elevator—Port Arthur, Ont.—Reliance Elevator Co., 2,500,000 bu. concrete grain elevator addition, Waterfront St., to Barnett McQueen Constr. Co. Port Arthur. Archts. est. $500,000.

Materials

Proposed Work

Pumps, etc.—Washington—Washington Pulp & Paper Co. (subsidiary Zellerbach Paper Corp., 1254 1st St., Seattle), soon lets contract 80 each pumps and electric motors, for pulp and paper plants, in Port Townsend and Hoquiam. $80,000.

Pipe—Burlingame, Calif.—F. Bloom, city purch. agt. plans purchasing (in open market) 42,600 ft. 2- to 12-in. Class "B" iron pipe. Former bids rejected. Noted Dec. 8.

Water Well Casing—Coalinga, Calif.—City plans purchasing in open market casing for water well. $3,000 available.

Bids Desired

Fuel Oil—Brooklyn, N. Y.—Jan. 4, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, 400,000 gal. fuel oil.

Pipe—New York, N. Y.—Jan. 9, by P. J. Dooling, comr. Water Supply, Gas & Electricity, Municipal Bldg., cast iron pipe, special and valve box castings, valves and double nozzle fire hydrants, to Dept. Water Supply, Gas & Electricity.

Steel Wheels and Piston Heads, etc.—Phila., Pa.—Jan. 6, by C. E. Walsh, purch. agt. Pennsylvania R.R., 15 North 32nd St., West Phila., steel wheels, Contr. 1-1928; piston heads, Contr. 2-1928; and bridge superstructure, Contr. 3-1928.

Conduit and Fibre Bends — Baltimore, Md. — Jan. 4, by Bd. Awards, 100,000 ft. 3 in. fibre conduit; 1,000 ft. fibre bends; 500,000 ft. vitr. clay conduit. C. F. Goob, City Hall, ch. engr.

Gasoline and Oil—Virginia—Dec. 30, by State Hy. Comn., Richmond, 413,000 gal. gasoline and 26,000 gal. oil. C. S. Mullin, ch. highway engr.

Street Regulators, Transformers, etc. — Columbus, O.—Jan. 5, by W. H. Duffy, pres. Bd. Purchase, City Hall, Columbus, six 40 kw. street and two 46 kw. feed regulators, three 400 kw. and two 5 kw. transformers, also 1 automatic motor generator, all foregoing for electric substation, Wheatland Ave. $15,000.

Pipe, Valves, etc. — Milwaukee, Wis. — Jan. 9, by Central Bd. Purchases, J. W. Nicholson, ch. buyer, 5,000 tons 6- to 16-in. Class "C" water pipe; 300 tons special castings, etc.; three thousand ⅝ in., three thousand five hundred ¾ in. and two hundred 1 in. meter cocks; six thousand ⅝ in., seven thousand ¾ in. and four hundred 1 in. couplings; eight hundred 6 in., four hundred 8 in., one hundred and fifty 12 in. and seventy-five 16 in. gate valves; two hundred and ten 2- to 6-in. tapping valves; 55,000 lb. liquid chlorine; 20 tons special sleeves and 35 tons offsets, etc.

Bridge Lumber—Carroll, Ia.—Jan. 4, by Auditor Carroll Co., 6 cars lumber and 1 car creosoted piling. J. F. Maher, Carroll, co. engr.

Bridge Lumber—Cedar Rapids, Ia.—Jan. 4, by Auditor Linn Co., 2 cars creosoted yellow pine piling and 4 cars full sawed bridge plank. A. F. Miller, Cedar Rapids, co. engr.

Bridge Lumber—Fairfield, Ia.—Jan. 4, by Auditor Jefferson Co., 158,080 ft. untreated and 56,333 ft. treated bridge lumber, 8,000 ft. untreated and 3,800 ft. treated piling. M. H. Bryant, Fairfield, co. engr.

Lead Pipe—Duncan, Okla.—City in market 1,000 ft. ¾ in. extra heavy lead pipe for Waterworks Dept.

Water Meters and Boxes—Wewoka, Okla. —City in market two hundred and fifty water meters and boxes.

Water Jet Pumps—Czechoslovakia—I. C. M. Sigmund, Brno, Wawrova 10, wants prices and catalogs water jet pumps.

Bids Received

Iron Castings, etc.—Boston, Mass.—Supply Dept., H. S. Frost, supt., Dec. 16, 400,000 lb. iron castings, frames and covers, frames and covers, from E. L. LaBaron Fdry. Co., Brockton, at $0.0245 per lb.; 400,000 lb. gate and hydrant iron castings, from Mechanics Iron Fdry. Co., 38 Kemble St., Roxbury, $0.045; and 200,000 lb. iron castings service pipe stock, from Stewart Steel Product Co., Inc., 352 West 26th St., New York City, $0.0499. Noted Dec. 8.

Iron Castings — Boston, Mass. — Supply Dept., H. S. Frost, supt., 100,000 lb. iron castings, flanged frames, from E. L. La Baron Fdry. Co., Brockton, at $0.03 per lb.; also 400,000 lb. iron castings, branches and curves, from Warren Fdry. & Pipe Co., 21 Devonshire St., $0.0521. Noted Dec. 8.

Contracts Awarded

Trap Rock—Hartford, Conn.—Bd. Contr. & Supply, Dec. 20 54,000 tons crushed trap rock for City, c/o Bd. Street Comrs. to Edward Balf. Co., 14 Haynes St.

Road Oil—Anaheim, Calif.—E. B. Merritt, city clk., 2,400 bbl. road oil, to Shipkey & Pearson, Inc., Anaheim, 90% oil at $2.65 per bbl., and 80% oil $2.55. Noted Nov. 24.

Cedar Poles—Colton, Calif.—C. Phillips, city clk., one carload round cedar poles, to Jones-Thorne Co., Bartlett Bldg., Los Angeles, $14.60 each, 2% discount.

See proposal advertising on page 102

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Sewers—Amarillo, Tex.

Bids were opened by City, Oct. 18, (lowest three and highest) for constructing sewers in West Amarillo, from (A) Dobson & Humphreys, Lincoln, Nebr., (awarded contract Items I, II and III, using Dickey tile pipe); (B) T. L. Green, Oklahoma City, Okla., (awarded contract Items III, IV and V, using bent concrete pipe); (C) Jones Construction Co., Dallas; (D) W. G. Cullum. The unit bids are as follows:

ITEM I
Furnishing Vit. Tile Pipe F.O.B. Car Amarillo

	A	B	C	D
81,259 lin.ft. 6 in.	$0.168	$0.1925	$0.168	$0.17
17,885 lin.ft. 8 in.	.265	.30	.265	.27
12,975 lin.ft. 12 in.	.459	.567	.459	.46
4,485 lin.ft. 15 in.	.663	.819	.663	.67
17,550 lin.ft. 18 in.	1.071	1.32	1.07	1.07
1,069 6x6 in. vit. tees std.	.672	.77	.672	.67
326 6x8 in. vit. tees std.	1.1925	1.35	1.19	1.20
42 6x12 in. vit. tees std.	2.0655	2.56	2.065	2.07
Totals	$47,310	$56,584	$47,291	$47,589

ITEM II
Hauling and Installing Vit. Tile Pipe

	A	B	C	D
8,520 lin.ft. 6 in.	$0.07	$0.17	$0.07	$0.10
8,570 lin.ft. 8 in.	.09	.21	.09	.13
90 6x6 in. tees	.20	.22	.17	.10
150 6x8 in. [illegible]es	.30	.25	.23	.15
60 lin.ft. 6 in. riser pipe	.10	.10	.30	.15
71,406 lin.ft. 6 in.	.07	.17	.07	.10
9,315 lin.ft. 8 in.	.09	.21	.09	.13
12,975 lin.ft. 12 in.	.14	.25	.14	.20
4,485 lin.ft. 15 in.	.17	.30	.18	.25
17,550 lin.ft. 18 in.	.20	.36	.23	.30
979 6x6 in. vit. tees	.20	.22	.17	.10
176 6x8 in.	.30	.25	.23	.15
42 6x12 in.	.50	.40	.36	.25
1,273 lin.ft. 6 in. riser pipe	.10	.10	.30	.15
Totals	$13,759	$28,717	$14,536	$19,665

ITEM III
Trenching and Back-filling

Depth	A	B	C	D
8,890 lin.ft. 4–6 ft. 6–8 in.	$0.10	$0.16	$0.15	$0.15
5,600 lin.ft. 6–8 ft.	.12	.23	.21	.20
2,000 lin.ft. 8–10 ft.	.20	.29	.27	.25
600 lin.ft. 10–12 ft.	.25	.32	.33	.40
12 std. lamphole	10.00	13.00	8.00	8.00
50 std. manhole first 4 ft.	38.00	68.00	49.50	50.00
141 addn'l. manhole ft.	6.00	3.00	7.00	6.50
Depth				
42,506 lin.ft. 4–6 ft. 6–8–12 in.	.12	.16	.15	.15
20,622 lin.ft. 6–8 ft.	.15	.23	.21	.20
7,817 lin.ft. 8–10 ft.	.22	.29	.27	.25
5,447 lin.ft. 10-12 ft.	.28	.32	.33	.40
3,200 lin.ft. 12–14 ft.	.40	.40	.39	.50
5,158 lin.ft. 14–16 ft.	.55	.44	.60	.75
2,238 lin.ft. 16–18 ft.	.70	.54	.68	1.00
2,258 lin.ft. 18–20 ft.	1.00	.60	.95	.50
2,032 lin.ft. 20–22 ft.	1.40	.69	1.05	2.00
888 lin.ft. 22–24 ft.	1.80	.70	1.38	3.00
830 lin.ft. 24–26 ft.	2.40	.80	1.50	4.00
367 lin.ft. 26–28 ft.	3.00	.86	2.16	5.00
332 lin.ft. 28–30 ft.	4.00	.92	2.50	6.00
3,270 lin.ft. 4–6 ft. 15–18 in.	.12	.22	.18	.18
2,292 lin.ft. 6–8 ft.	.15	.23	.25	.23
2,198 lin.ft. 8–10 ft.	.22	.36	.33	.28
2,425 lin.ft. 10–12 ft.	.32	.43	.41	.45
1,925 lin.ft. 12–14 ft.	.45	.57	.49	.55
2,825 lin.ft. 14–16 ft.	.60	.60	.75	.80
2,500 lin.ft. 16–18 ft.	.75	.68	.85	1.00
600 lin.ft. 18–20 ft.	1.10	.78	1.19	1.50
1,150 lin.ft. 20–22 ft.	1.50	.86	1.31	2.00
950 lin.ft. 22–24 ft.	1.90	.93	1.72	3.00
1,200 lin.ft. 24–26 ft.	2.50	2.00	2.25	4.00
350 lin.ft. 26–28 ft.	3.20	2.07	2.70	5.00
350 lin.ft. 28–30 ft.	4.25	2.14	3.00	6.00
200 lin.ft. tunnel and B.F. at Denver R.R.	5.00	4.00	3.00	5.00
196 std. manholes first 4 ft.	38.00	68.00	49.50	50.00
2,031 addn'l. manhole ft.	6.00	3.00	7.00	6.50
55 std. lampholes	15.00	13.00	8.00	8.00
Totals	$70,910	$67,159	$77,233	$94,090
Totals Items I, II and III	$131,979	$152,461	$139,061	$161,345

Sewers—Amarillo, Tex. *(Continued)*

ITEM IV
Furnishing Conc. Pipe F.O.B. Yard Amarillo

	A	B	C	D
81,259 lin.ft. 6 in.	$0.173	$0.16	$0.16	$0.17
17,885 lin.ft. 8 in.	.252	.24	.24	.27
12,975 lin.ft. 12 in.	.49	.47	.47	.47
4,485 lin.ft. 15 in.	.70	.665	.665	.67
17,550 lin.ft. 18 in.	1.05	.90	.90	1.00
1,069 6x6 in. conc. tees	.86	.82	.67	.82
326 6x8 in. conc. tees	1.36	1.30	1.19	1.30
42 6x12 in. conc. tees	2.45	2.35	2.06	2.35
Totals	$47,955	$43,568	$43,360	$46,695

ITEM V
Hauling and Installing Conc. Pipe

	A	B	C	D
8,520 lin.ft. 6 in.	$0.07	$0.06	$0.07	$0.10
8,570 lin.ft. 8 in.	.09	.08	.09	.13
90 6x6 in. conc. tees	.20	.22	.17	.10
150 6x8 in. conc. tees	.30	.25	.23	.15
60 lin.ft. 6 in. conc. riser	.10	.10	.30	.15
71,406 lin.ft. 6 in.	.07	.06	.07	.10
9,315 lin.ft. 8 in.	.09	.08	.09	.13
12,975 lin.ft. 12 in.	.14	.20	.14	.23
4,485 lin.ft. 15 in.	.17	.22	.18	.30
17,550 lin.ft. 18 in.	.20	.26	.23	.25
979 lin.ft. 6x6 in. conc. tees	.20	.22	.17	.10
176 lin.ft. 6x8 in. conc. tees	.30	.25	.23	.15
42 lin.ft. 6x12 in. conc. tees	.50	.40	.36	.25
1,273 lin.ft. 6 in. riser pipe	.10	.10	.30	.15
Totals	$13,759	$14,837	$14,536	$21,156
Totals Items III, IV, and V	$132,624	$125,566	$135,130	$161,941

Engineering News-Record, Issue of December 29, 1927.

Road—Delaware

Bids were opened by State Highway Department, Dover, Sept, 28, (lowest three) for constructing Pleasant Valley School-Lincoln Highway, 2.50 mi., Contract No. 95, from (A) Sutton Contracting Co., Philadelphia, (awarded contract); (B) Development Construction Co., Baltimore; (C) George & Lynch, Dover. The unit bids are as follows:

	A	B	C
1 acre clearing	$200.00	$200.00	$200.00
1 acre grubbing	400.00	200.00	300.00
8,000 cu.yd. excav.	1.10	1.10	1.25
3,600 cu.yd. borrow	1.15	1.10	1.25
1,000 cu. yd. Gravel Surface Course	1.00	1.10	1.75
2,200 cu.yd. Concrete Pavement	13.13	13.90	14.00
800 lin.ft. Long Metal Joint	.25	.18	.20
150 cu.yd. Class "A" Concrete	30.00	30.00	28.00
6,000 lb. reinforcement	.07	.10	.08
160 lin.ft. 15 in. corr. metal pipe	2.00	2.05	1.50
46 lin.ft. 15 in. R.C. pipe	2.50	2.70	2.00
30 lin.ft. 18 in. R.C. pipe	2.75	3.70	2.50
84 lin.ft. 24 in. R.C. pipe	5.00	4.70	6.00
28 lin.ft. 30 in. R.C. pipe	7.00	8.55	2.00
92 lin.ft. 36 in. R.C. pipe	10.00	9.80	8.00
100 lin.ft. relaid pipe	1.00	1.25	.50
400 lin.ft. 4 in. pipe underdrain	1.00	1.00	.60
500 sq.yd. conc. gutter	2.25	2.10	2.50
Totals	$52,225	$53,758	$55,773

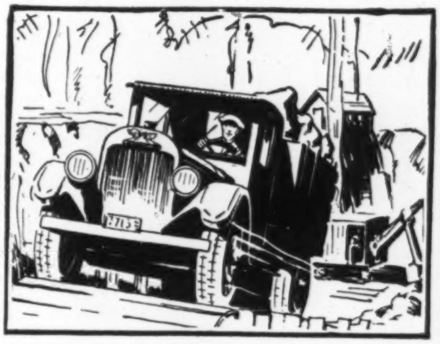
Engineering News-Record, Issue of December 29, 1927.

Alexander Potter, Consulting Engineer for Union-Essex Sewer Project in New Jersey

In presenting the summary of bids on Section IV of the supplementary joint trunk sewer being constructed in Union and Essex Counties, New Jersey, in *Engineering News-Record* of Dec. 15, the name of the consulting engineer, Alexander Potter, of New York City, was inadvertently omitted. Mr. Potter's office furnished the tabulation of bids and the statement of working conditions affecting costs on this outstanding project.

Constr. News page 328

UNIT PRICES Continued on Page 328a



Pile Your Winter Hauling Worries On Speed Wagons

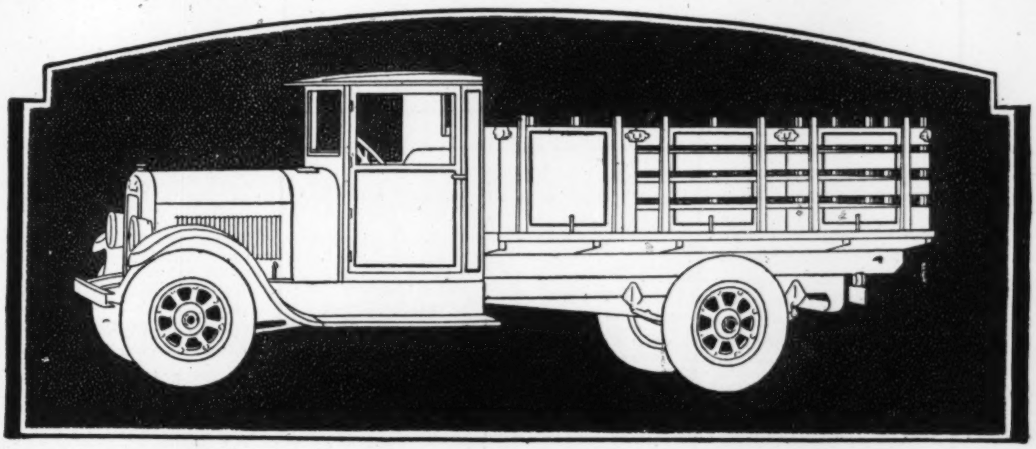
When you need trucks to buck the strain of winter hauling and get work done *on time*, regardless of weather or rough going, you're ready for new Master Speed Wagons.

For stubborn pulling power and high speed performance under adverse conditions, the six-cylinder engine of the new Master Speed Wagon cannot be surpassed today. A single-plate clutch and double reduction steering mean easier shifting and turning in narrow quarters. Drivers are kept at the peak of efficiency in warm, comfortable cabs. Superior chassis strength and stamina defy the jolts and jars that shorten the life of ordinary trucks.

A Speed Wagon
For Every Trucking Need
JUNIOR
Capacity up to one-half ton, Chassis $895
MASTER
Capacity up to two tons, Chassis $1645
STANDARD
Capacity up to a ton and a half
In 2 wheelbases, at $1345 and $1445
HEAVY DUTY
Capacity up to three tons, Chassis, $2185
Special Dual Internal Brakes
Prices at Lansing

Pile your winter hauling worries on new Master Speed Wagons, and new Master Speed Wagons will pile up profits for you. Be sure to try one out.

REO MOTOR CAR CO., *Lansing, Mich.*



6 Cylinder **4 Wheel Brakes**

SPEED REO WAGON

Coupe Cab

for faster, surer, easier, cheaper hauling

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Salt Creek Intercepting Sewer, Chicago, Ill.

Seven contractors submitted bids on September 22 for Contract 2 of the Salt Creek Intercepting Sewer, Chicago. The low was $1,864,720, which is 20 per cent under the high. Work consists of building 30,000 ft. of 3 ft. 6 in. to 7 ft. sewer in earth and in rock and 4,500 ft. of 12- to 27-in. pipe sewer. Includes furnishing and placing concrete, reinforcing steel, iron castings, earth and rock excavation, tunneling, backfilling, and disposal of excess material.

The tabulation gives unit prices on items 1 to 11, and 39 to 42. Items 12 to 28 are for lump sum operations, such as railroad and river crossings and drop connections. The remaining items (43 to 49) are for additional work for which the Sanitary District of Chicago has set the following prices:

	Cu.Yd.
EXCAVATION	
Rock in tunnels	$7
Rock in open cut	5
Earth in tunnel	5
Earth in open cut	3
CONCRETE	
Class A in tunnel	17
Class A in open cut	14
Class B	12

The contractors are (A) Underground Construction Co., 130 North Wells St., (awarded contract); (B) Byrne Bros. Construction Co.; (C) T. J. Forschner Contracting Co.; (D) Dowdle Bros. Co.; (E) W. J. Newman Co.; (F) Contracting & Material Co.; (G) States Corporation.

	A	B	C	D	E	F	G
3,100 lin.ft. sewer, 7 ft. internal width, in earth section	$49.00	$54.00	$48.00	$54.50	$55.00	$59.00	$55.50
6,600 lin.ft. sewer, 7 ft. internal width, in rock section	69.00	70.00	73.00	80.00	70.00	75.00	95.00
6,900 lin.ft. sewer, 5 ft. 9 in. internal width, in earth section	39.00	45.00	41.00	49.00	46.00	50.00	46.00
5,500 lin.ft. sewer, 5 ft. 9 in. internal width, in rock section	62.00	60.00	68.00	71.50	63.00	66.00	90.00
5,800 lin.ft. sewer, 3 ft. 6 in. internal width, in earth section	35.00	32.00	32.00	43.00	43.00	40.00	36.25
2,100 lin.ft. sewer, 3 ft. 6 in. internal width, in rock section	60.00	62.00	65.00	62.00	62.00	55.00	55.50
640 lin.ft. 27 in. pipe sewer	8.00	6.00	8.50	20.50	9.00	10.00	17.50
1,320 lin.ft. 24 in. pipe sewer	7.00	5.50	8.00	23.50	6.00	10.00	15.00
880 lin.ft. 21 in. pipe sewer	12.00	9.00	13.50	28.50	10.00	14.00	17.50
1,400 lin.ft. 18 in. pipe sewer	18.00	15.00	19.00	26.00	15.00	15.00	16.00
260 lin.ft. 12 in. pipe sewer	10.00	10.00	8.50	15.50	8.00	10.00	12.00
1,800 lin.ft. standard manholes	20.00	35.00	22.00	20.00	27.00	40.00	20.00
280 lin.ft. manholes in rock	15.00	60.00	90.00	19.00	50.00	80.00	50.00
600,000 lb. reinforcing steel	.07	.09	.08	.06	.08	.10	.06
60,000 lb. iron castings and miscellaneous metals	.15	.18	.20	.08	.20	.20	.10
Totals	$1,864,720	$1,953,920	$1,975,390	$2,092,270	$2,137,460	$2,219,120	$2,245,820

Engineering News-Record, Issue of December 29, 1927.

Road—California

Bids were opened by California Highway Commission, Sacramento, Dec. 5, (lowest four and highest) for constructing highway in Placer County, Div. 3, Route 37, Sections A-B, from (A) W. A. Bechtel Co., San Francisco, (awarded contract); (B) Sacramento Contracting Co., Sacramento; (C) Holdener Construction Co., Sacramento; (D) Otto Parlier, Tulare; (E) E. B. Skeels, Roseville. The unit bids are as follows:

	A	B	C	D	E
20,960 cu.yd. roadway excavation (without classification)	$0.60	$0.70	$0.50	$0.77	$1.10
1,140 cu.yd. structure excavation (without classification	1.25	1.00	2.00	2.00	1.75
24,695 sta.yd. overhaul	.02	.02	.02	.02	.03
1,565 cu.yd. class "B" portland cement concrete	14.00	15.00	14.75	14.00	16.00
260 cu.yd. class "A" portland cement concrete	15.50	15.00	20.25	15.50	20.00
6,350 lb. reinforcing steel	0.6	.055	.06	.05	.07
211 lin.ft. 12-in. cor. met. pipe	.75	.50	1.00	1.50	.75
80 lin.ft. 18-in. cor. met. pipe	1.00	.75	1.25	1.60	1.00
76 lin.ft. 24-in. cor. met. pipe	1.25	.85	1.50	1.75	1.25
2,060 cu.yd. structure backfill	1.00	.85	2.00	.60	1.50
Totals	$43,209	$46,011	$46,529	$46,984	$59,900

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Latest Subway Unit Prices

All unit prices on $21,256,380 worth of new subway contracts in New York City and Philadelphia have been printed in convenient and permanent form for use and for filing. These have not been published in *Engineering News-Record —not a reprint.*

This 8-page pamphlet gives the summaries of bids of thirty-nine (39) contractors on the following subway projects:

Route 8, Sections 6 A-1 and 6 E-2, Brooklyn, N. Y., station finish, 6 bidders; $240,509.
Route 109, Section 1, Brooklyn, N. Y. C.; 19 bidders, $3,758,992.
Route 45, Sections 1 and 2, Manhattan, N. Y. C.; 8 bidders, $9,986,999. This line passes under the Municipal Building.
Contract 109, Broad St. Subway, Philadelphia, Pa.; 6 bidders, $7,269,880.

INCLUDED—A list of the contractors who built and are building the New York City subways from 1921 through 1927. There are 46 separate contracts ranging from $45,165 to $22,282,309, and averaging $4,400,000, and totaling $201,891,355.

All for one (1) dollar—While they last

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